

**COMPREHENSIVE
SUPPORT FOR
THE ELECTRONICS
INDUSTRY**



2025

 **renex** **35** YEARS

7

SOLDERING
EQUIPMENT



59

AUTOMATIC ASSEMBLY
MACHINES



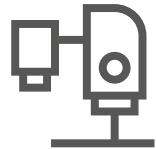
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CLEANROOM
FACILITIES



COMPREHENSIVE SUPPORT FOR THE ELECTRONICS INDUSTRY



RENEX is a company with 35 years of experience in the industry. It is one of the largest and longest operating Polish companies providing the latest technologies in manufacturing and servicing of electronic devices. The RENEX group consists of the following branches:



Distributor of specialized equipment and machines

RENEX.PL



Authorized Training Center
IPC | ESA | PACE

RENEXEEC.COM



Demo-Room, production lines,
implementation of
technological processes

RENEXLINE.PL



Official distributor of YAMAHA
industrial robots and
TECHMAN cobots

RENEXROBOTICS.PL



Manufacturer of ESD furniture,
ESD clothing, industrial equipment
and robotic devices

REECO.INFO



Production of accessories, design,
construction, and equipment for
Cleanroom and Cleanbox areas

CLEANROOM.COM.PL





TECHNOLOGY CENTER / DEMO ROOM

Our demo room contains fully equipped production and repair lines. We provide the opportunity to see the equipment in operation and to carry out tests and sample batches.

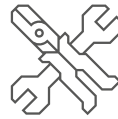
LOGISTICS AND WAREHOUSING CENTER

With more than 3000 m² of warehouse space, we guarantee the availability of products from stock. We ensure continuity of supply to our customers while maintaining a constant, highest quality of service.



TECHNICAL ADVICE

RENEX technical and sales advisors provide professional assistance throughout the country, both at the customer's location and at the RENEX Technology Center.



WARRANTY SERVICE

We provide warranty and post-warranty service. We offer the possibility of extending the warranty for products up to 7 years.



TRAININGS

We provide training and consulting services for engineers, operators and technologists.

20 000

TYPES OF PRODUCTS
AVAILABLE IN THE OFFER

99%

OF CATALOGUE OFFER
ALWAYS IN STOCK

200

QUALIFIED
EMPLOYEES

15 000

REGULAR
CUSTOMERS

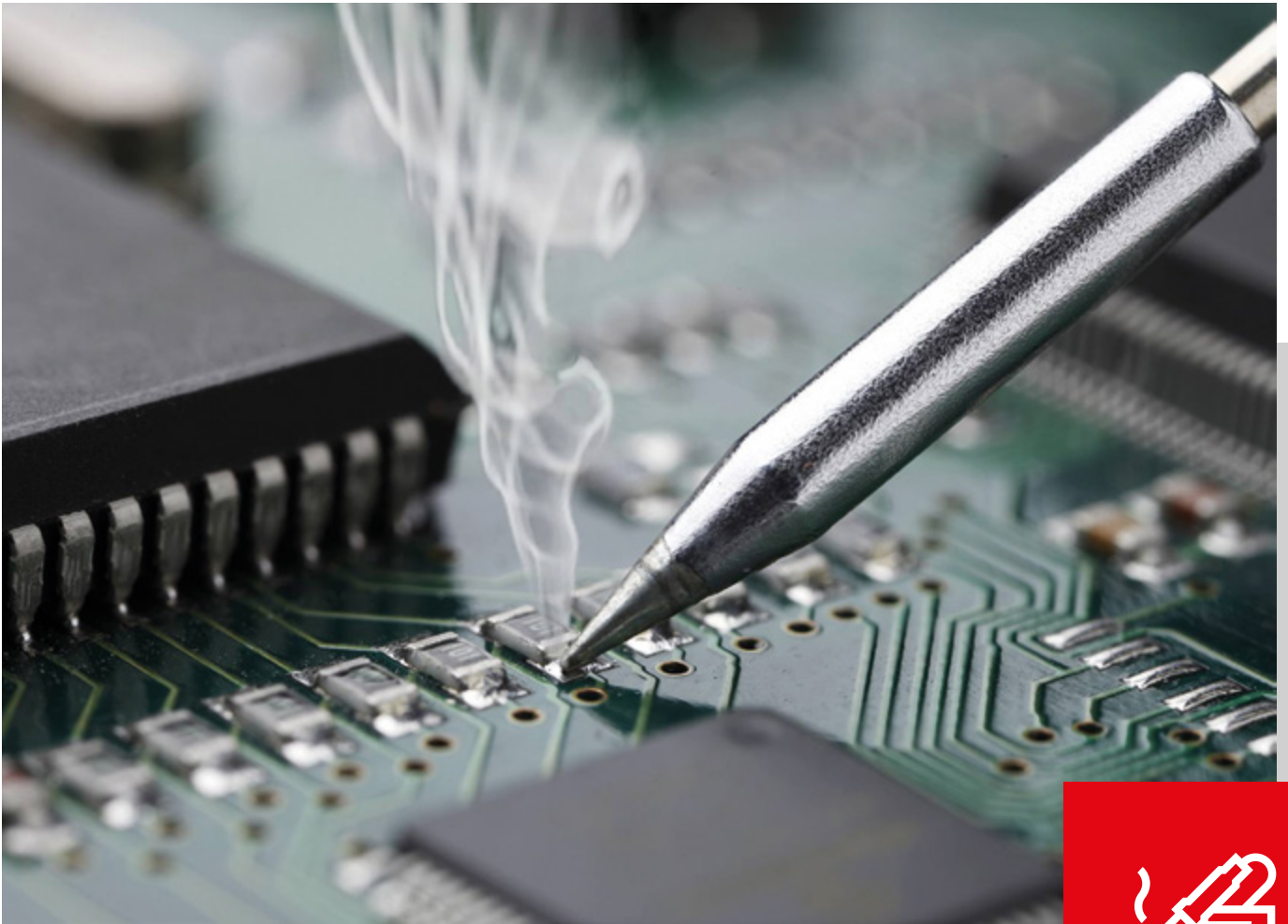
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BRANCHES
IN EUROPE

35 000

TRAINED SPECIALISTS
IN POLAND AND EUROPE





SOLDERING EQUIPMENT

7

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**JBC B-IRON 100 WIRELESS STATION**

With portable 7" PDS display

JBC-BIL-5A

Without Portable Display

JBC-BIL-5QA**CHARGING BASE**

INPUT VOLTAGE	100 V - 240 V 50/60 Hz
POWER	40 W
TOOL OUTPUT	12 V / 1000 mA
USB OUTPUT	5 V / 1000 mA

DESCRIPTION

- B-IRON 100 is a lightweight and ergonomic tool, specially designed for R&D and individual work
- Makes up to 100 medium - sized SMD solder joints on a single charge
- Quick cartridge exchange function enabling a safe and easy cartridge change, tip cleaner with brass wool and anti-splash membrane
- INCLUDED:
 - The B-100 Light handle, which is fully compatible with C210 cartridges. It also features a safe power mode that can be activated by applying a cap
 - The BCB charging base to automatically charge the tool when placed in the handle
 - Portable 7" PDS display with B-IRON app for system configuration and control (**JBC-BIL-5A**)

TOOL

OUTPUT PEAK POWER	24 W
BATTERY	Li-Ion 7.4V / 180 mAh
CHARGE TIME	30 minutes
SELECTABLE TEMPERATURE	100 – 450 °C / 210 – 840 °F
IDLE TEMP. STABILITY (STILL AIR)	±1,5 °C / ±3 °F
TEMPERATURE ACCURACY	±3% (Using reference cartridge)
CONNECTIONS	Bluetooth Low Energy (BLE)
AMBIENT OPERATING TEMP	10 – 50 °C / 50 – 122 °F

JBC B-IRON 500A WIRELESS STATION

With portable 7" PDS display

JBC-BIS-5B

Without Portable Display

JBC-BIL-5QB**CHARGING BASE**

INPUT VOLTAGE	100 V - 240 V 50/60 Hz
POWER	40 W
TOOL OUTPUT	12 V / 1000 mA
USB OUTPUT	5 V / 1000 mA

DESCRIPTION

- B-IRON 500 is specially designed for electronic production and intensive works
- It performs up to 500 medium-sized SMD soldering joints per charge
- Quick cartridge exchange function enabling a safe and easy cartridge change, tip cleaner with brass wool and anti-splash membrane
- INCLUDED:
 - The B-500 Handle, which is fully compatible with C210 Cartridge Range. It also has a power safe mode that can be activated by putting on the cap
 - The BCB charging base for charging the tool automatically when placed in Tool Holder
 - PDS Portable Display 7" with B-IRON app to configure and control the system (**JBC-BIS-5B**)

TOOL

OUTPUT PEAK POWER	24 W
BATTERY	Li-Ion 7.4V / 750 mAh
CHARGE TIME	60 minutes
SELECTABLE TEMPERATURE	100 – 450 °C / 210 – 840 °F
IDLE TEMP. STABILITY (STILL AIR)	±1,5 °C / ±3 °F
TEMPERATURE ACCURACY	±3% (Using reference cartridge)
CONNECTIONS	Bluetooth Low Energy (BLE)
AMBIENT OPERATING TEMP	10 – 50 °C / 50 – 122 °F



JBC B-IRON TWEEZERS STATION



With portable 7" PDS display

JBC-BIP-5A

Without Portable Display

JBC-BIP-5QA

STAND

INPUT VOLTAGE	100 V - 240 V 50/60 Hz
POWER	40 W
USB OUTPUT	5 V / 1000 mA

DESCRIPTION

- The B-IRON TWEEZERS Station provides the highest precision for SMD rework operations
- A single charge allows up to 60 SMD rework processes to be performed
- It features a Quick Cartridge Exchanger for safe and easy cartridge replacement, a Tip Cleaner with brass wool, and an anti-splash membrane
- INCLUDED
 - Adjustable AM120 Micro Tweezers, compatible with C120 Cartridge Range
 - BCB Charging Base for automatic tool charging when placed in the holder
 - PDS 7" Portable Display with B-IRON app for system configuration and control (**JBC-BIP-5A**)

TOOL

PEAK POWER	15 W
BATTERY	Li-Ion 7.4V / 180 mAh
CHARGE TIME	45 minutes
SELECTABLE TEMPERATURE	200 - 450°C / 390 to 840°F
TEMPERATURE ACCURACY	±3%
ESD SAFE	Meet ANSI/ESD S20.20-2021

CONSOLE

SCREEN SIZE	7" (1024 x 600 px)
CONNECTIVITY	Bluetooth 4.2
BATTERY	Li-Ion 3.7V / 2500 mAh

JBC CDA SOLDER FEED STATION



JBC-CA-2QE/F

DESCRIPTION

- The ideal station for applications requiring the operator's hands to be free from direct solder contact.
- Suitable for wire soldering on PCBs, connectors, or transformers, as well as for intensive THT component soldering.
- Delivers the highest soldering quality thanks to JBC's most efficient soldering system.
- Sleep and hibernation modes help extend tip life.
- The station comes with the AP250 wire feeder, which is compatible with C250 cartridges.
- Like all JBC compact stations, the CA features a menu with over 10 adjustable parameters.

POWER SUPPLY	230 V
POWER CONSUMPTION	130 W
DIMENSIONS	150 x 175 x 145 mm
OPERATING TEMPERATURE	90 - 450°C
TIP-TO-GROUND RESISTANCE	<2 Ω

**JBC CDA SOLDER FEED STATION****JBC-CA-2QG****DESCRIPTION**

- The new, enhanced CDA station is designed for applications where the operator's hands need to be free from direct solder contact.
- Ideal for wire soldering on PCBs, connectors, or transformers, as well as for intensive THT component soldering.
- Delivers the highest soldering quality thanks to JBC's most efficient soldering system.
- Sleep and hibernation modes help extend tip life.
- The station comes with the AP250 wire feeder, which is compatible with C250 cartridges.
- Like all compact stations, the CDA features a menu with over 10 adjustable parameters.
- Fast and easy setup thanks to the 7-key keyboard.
- Includes a tip holder for storing up to four cartridges, as well as a cartridge extractor and cable collector

POWER SUPPLY	230 V
POWER CONSUMPTION	130 W
DIMENSIONS	170 x 145 x 176 mm
OPERATING TEMPERATURE	90 - 450°C
TIP-TO-GROUND RESISTANCE	<2 Ω

DIGITAL SOLDERING STATION FOR GENERAL-PURPOSE APPLICATIONS**JBC-CD-2BQF****DESCRIPTION**

- The ideal soldering station for general electronic applications, equipped with the T245 handle.
- Delivers the highest soldering quality thanks to JBC's most efficient soldering system, with sleep and hibernation modes that help extend tip life.
- The tip extractor allows for quick and safe cartridge replacement with different tip geometries.
- Over 150 C245 series cartridges are available.
- Like all compact stations, the CD station features a menu with over 10 adjustable parameters for customizing the control unit.

POWER SUPPLY	230 V
POWER CONSUMPTION	130 W
DIMENSIONS	145 x 150 x 175 mm
OPERATING TEMPERATURE	90 - 450°C
TIP-TO-GROUND RESISTANCE	<2 Ω
AMBIENT OPERATING TEMPERATURE	10 - 50°C
TIP-TO-GROUND VOLTAGE	<2 mV RMS



DIGITAL SOLDERING STATION FOR PRECISION SOLDERING



JBC-CD-2SQF

DESCRIPTION

- The station is suitable for precision soldering with the T210 handle.
- An ideal tool for working on densely populated PCBs or under a microscope.
- Delivers the highest soldering quality thanks to JBC's most efficient soldering system, with hibernation mode helping to extend tip life.
- The tip extractor allows for quick and safe cartridge replacement.
- Over 30 C210 series cartridges are available.
- The menu includes more than 10 adjustable parameters for customization.

POWER SUPPLY	230 V
POWER CONSUMPTION	130 W
DIMENSIONS	150 x 175 x 145 mm
OPERATING TEMPERATURE	90 - 450°C
TIP-TO-GROUND RESISTANCE	<2 Ω
AMBIENT OPERATING TEMPERATURE	10 - 50°C
TIP-TO-GROUND VOLTAGE	<2 mV RMS

JBC ALE AUTO-FEED SOLDERING STATION



JBC-ALE-210VB

DESCRIPTION

- The ALE station with the JBC ALE250 automatic wire feeder.
- Sleep and hibernation modes help extend tip life by up to five times
- Wire feed speed and length can be easily programmed using the 7-key keyboard.
- Solder wire perforation:
The wire feeder is equipped with a small blade that perforates the solder wire down to the flux core during feeding. This perforation improves flux flow and degassing, helping to prevent solder and flux splattering during soldering.
- With the included GALE10V guide set, this station is compatible with 1.0 mm diameter solder wire.

PRODUCT COMPOSITION

- 1 ALU Auto - Feed Control Unit
- 1 ALE250 Auto - Feed Iron (cartridge and guide not included)
- 1 ALES Stand for ALE250 Auto - Feed Iron
- 1 C250403 Conical Bent O 1 for AL250 & AP250
- 1 GALE10V Guide Tube O1.0 mm for ALE
- 1 SCH Cartridge Holder
- 1 P405 Pedal
- 1 PLR195 Cartridge Extractor Plier

POWER SUPPLY	230 V
POWER CONSUMPTION	130 W
DIMENSIONS	145 x 150 x 235 mm
OPERATING TEMPERATURE	90 - 450°C
TIP-TO-GROUND RESISTANCE	<2 Ω
AMBIENT OPERATING TEMPERATURE	10 - 50°C
TIP-TO-GROUND VOLTAGE	<2 mV RMS

**JBC CDP MICRO TWEEZERS SOLDERING STATION****JBC-CP-2QF****DESCRIPTION**

- The refreshed and more intuitive CDP station with micro tweezers.
- The CDP station is the optimal solution for soldering and reworking SMT components, such as small chips and small/medium-sized SOP packages, requiring the highest precision.
- It delivers the best soldering quality thanks to JBC's most efficient soldering system, with hibernation mode helping to extend tip life.
- The station is equipped with the adjustable AM120 micro tweezers, compatible with C120 cartridges.
- Like all compact stations, the CDP features a menu with over 10 adjustable parameters.
- Fast and easy station setup via the 7-key keyboard.
- Can be connected to a JBC Fume Extractor (RJ12 connector).

POWER SUPPLY	230 V
POWER CONSUMPTION	Max. 130 W
DIMENSIONS	170 x 176 x 145 mm
OPERATING TEMPERATURE	90 - 450°C
TIP-TO-GROUND RESISTANCE	<2 Ω
AMBIENT OPERATING TEMPERATURE	10 - 50°C
TIP-TO-GROUND VOLTAGE	<2 mV RMS

2 TOOLS DDE PRECISION STATION**JBC-DDPE-2QC****DESCRIPTION**

- This Precision Rework Station is the perfect solution for fast and precise SMD rework of chip components and small outline ICs.
- DDU Control Unit manages up to 2 tools simultaneously and is fully compatible with 10 different JBC tools. It works with JBC Exclusive Heating System and the intelligent Sleep & Hibernation Modes.
- It comes with T210 Precise Handle and AM120 Adjustable Micro Tweezers. The short distance tip - to - grip of both tools provides the highest precision handling even under the magnifying glass.
- This station includes two stands with a complete cleaning system - a Tip Cleaner with brass wool, as well as, splashguard and antisplash membrane to keep the work area clean and free of solder particles.
- Quick Cartridge Changer enables a safe, easy and quick cartridge exchange which, combined with Cartridge Holder, allows you to store up to four cartridges. Also, the station includes a SCH Cartridge Holder to store up to 16 cartridges and tips nearby

POWER SUPPLY	230 V
POWER CONSUMPTION	150 W
DIMENSIONS	232 x 148 x 120 mm
OPERATING TEMPERATURE	90 - 450°C
TIP-TO-GROUND RESISTANCE	<2 Ω
AMBIENT OPERATING TEMPERATURE	10 - 50°C
TIP-TO-GROUND VOLTAGE	<2 mV RMS



4-TOOL DMP PRECISION REWORK & DESOLDERING STATION WITH A NEW PUMP



JBC-DMPSE-2QC

DESCRIPTION

- DME Control Unit manages up to 4 tools simultaneously and is fully compatible with 10 different JBC tools.
- MSE Electric Desoldering Module is indispensable for a Repairing process.
- It provides the best soldering quality thanks to JBC Most Efficient Soldering System and additionally Sleep & Hibernation Modes help to extend life of tips.
- It features all the Excellence range benefits such as station customization, full control of soldering processes and remote work management.
- DMP works simultaneously with T210 Precision Purpose Handle, T245 General Purpose Handle, AM120 Adjustable Micro Tweezers and DR560 Desoldering Iron.

POWER SUPPLY	230 V
POWER CONSUMPTION	150 W
DIMENSIONS	232 x 148 x 120 mm
OPERATING TEMPERATURE	90 - 450°C
TIP-TO-GROUND RESISTANCE	<2 Ω
AMBIENT OPERATING TEMPERATURE	10 - 50°C
TIP-TO-GROUND VOLTAGE	<2 mV RMS

HDP HEAVY DUTY TWEEZERS STATION



JBC-HDE-2KE

DESCRIPTION

- HDP Heavy Duty Tweezers Station has been designed to reduce the soldering time in applications that require a large amount of heatspan.
- Some examples of applications are: coaxial cable shields soldering in telecommunication antennas, soldering of large copper conductors in medical imaging scanners, battery terminals, large-size capacitors, etc.
- This station is supplied with 2 HDU Control Units, the most powerful soldering unit in the JBC range, and with HT470 HD Thermal Tweezers which use C470 Cartridge Range.
- The Control Unit provides the best soldering quality thanks to JBC Exclusive Heating System and, additionally, the intelligent Sleep & Hibernation Modes help to extend life of tips. It also allows direct connection with JBC Fume Extractors.
- Additionally, includes SCH Cartridge Holder to store up to 16 cartridges and tips nearby

POWER SUPPLY	42 V
POWER CONSUMPTION	250 W
DIMENSIONS	232 x 148 x 240 mm
OPERATING TEMPERATURE	90 - 450°C
TIP-TO-GROUND RESISTANCE	<2 Ω
AMBIENT OPERATING TEMPERATURE	10 - 50°C
TIP-TO-GROUND VOLTAGE	<2 mV RMS



HIGH-PRECISION HOT AIR STATION JNA



JBC-JNA-2B

DESCRIPTION

- This is the smallest hot air station in the market
- It is perfect for reworking SMD components on surfaces with minimal separation
- It allows easy reworking of ultra - miniature SMD components (01005) under the microscope
- It enables flow regulation of temperatures and air at very low levels in order to avoid the expulsion/movement of adjoining components
- JBC offers three cartridge sizes with outlet diameters of 0.8, 1 and 1.2 mm, which are easily interchangeable
- The station includes a Pick & Place activated by pedal to position and remove components with high precision.

POWER SUPPLY	23,5 V
POWER CONSUMPTION	70 W
DIMENSIONS	180 x 170 x 110 mm
OPERATING TEMPERATURE	150 - 450°C
AIRFLOW ADJUSTMENT	0.15 - 2.5 SLPM
VACUUM	53% / 397 mmHg / 15.6 inHg

DESOLDERING STATION, WITH AN ELECTRIC PUMP



JBC-CS-2F

DESCRIPTION

- The CS station is equipped with a desoldering module and is ideal for removing solder from through-hole components and cleaning solder from surfaces.
- CS operates with an electric pump.
- The station comes with the ergonomic DS360 desoldering handle, featuring JBC's exclusive heating system and smart sleep and hibernation functions.
- Like all compact stations, the CS includes a menu with over 10 adjustable parameters.
- 7-key keyboard for easy configuration.
- The station features a tip holder for storing up to four cartridges, a cartridge dispenser, and a cable collector.
- Can be connected to JBC fume extractors.

POWER SUPPLY	23,5 V
POWER CONSUMPTION	40 W
DIMENSIONS	170 x 176 x 145 mm
OPERATING TEMPERATURE	90 - 450°C
TIP-TO-GROUND RESISTANCE	<2 Ω
AMBIENT OPERATING TEMPERATURE	10 - 50°C
TIP-TO-GROUND VOLTAGE	<2 V RMS



SMD REWORK SYSTEM SRWS-S



JBC-SRWS-2SC

DESCRIPTION

- The JBC SRS set provides full control over the rework process of SMD components.
- The set includes the JT hot air station, which controls the rework process using temperature and airflow profiles.
- The adjustable RWS arm allows for hands-free operation.
- Also included is the compact PHSK preheater.
- The kit comes with various shields, extractors, and a stand.

POWER SUPPLY	230 V
POWER CONSUMPTION	700 W
DIMENSIONS	232 x 148 x 160 mm
OPERATING TEMPERATURE	150 - 450°C
TIP-TO-GROUND RESISTANCE	<2 Ω
AMBIENT OPERATING TEMPERATURE	10 - 50°C
TIP-TO-GROUND VOLTAGE	<2 V RMS

JBC WSS STATION FOR HIGH-TEMPERATURE WIRE STRIPPING



JBC-WSS-2B

DESCRIPTION

- The JBC WSS-2B soldering station is specifically designed for stripping insulation from wires made of heat-resistant materials such as Teflon, Kapton, silicone rubber, etc., ranging from 40 to 14 AWG, at temperatures up to 800 °C.
- The WSS features predefined power levels for each material type, as well as a mode for customizing the power level.
- The station is equipped with the high-temperature, precision WS140 tweezers, which are compatible with W140 series tips.

POWER SUPPLY POWER CONSUMPTION	230 V	75 W
DIMENSIONS	180 x 94 x 106 mm	
OPERATING TEMPERATURE	up to 800°C	

AUTO FEED IRON FOR JBC-ALE-2A STATION



JBC-ALE250-B

DESCRIPTION

- The ALE250 handle with automatic solder wire feeder is compatible with the JBC ALE-210 station.
- It is the ideal tool for soldering applications that require one free hand.
- With a single press of a button, the handle automatically feeds the programmed amount of solder wire as set on the station.
- The tool includes an anti-rotation screw to ensure optimal tip alignment.
- Compatible with C250 series cartridges.



STAND FOR T210 & T245 HANDLES



JBC-AD-SF

DESCRIPTION

- The new, enhanced stand for JBC T210 and T245 handles.
- Sleep and hibernation modes automatically lower the tip temperature when the tool is placed on the stand, extending tip life by up to five times.
- The stand features a brass wool tip cleaner and anti-splash membrane, helping to keep the work area clean.
- It also includes a tip changer for quick and easy cartridge replacement without turning off the station.
- The stand and cable holder positions can be easily adjusted to suit operator preferences, keeping the cable away from the work area.
- The ADS stand is compatible exclusively with JBC control units DIU, DDD, and DMU, and with T210 and T245 handles.

CARTRIDGES FOR JBC NT115, AN115, AND NP115 HANDLES

CAT. NO.	TIP DIMENSIONS	MM (IN)
CONICAL SHAPE		
JBC-C115126	0,1 mm	
JBC-C115101	0,1 mm	
JBC-C115103	0,3 mm	
JBC-C115106	0,5 mm	
JBC-C115107	0,8 mm	
BEVELED CONICAL SHAPE		
JBC-C115109	0,6 mm	
JBC-C115127	1 mm	
CHISEL SHAPE		
JBC-C115116	0,2 x 0,1 mm	
JBC-C115117	0,4 x 0,2 mm	
JBC-C115108	0,6 x 0,3 mm	
JBC-C115125	1 x 0,2 mm	
JBC-C115113	1 x 0,3 mm	
JBC-C115114	1,8 x 0,5 mm	
JBC-C115131	2 x 0,35 mm	
JBC-C115213	1 x 0,3 mm	
JBC-C115221	1,3 x 0,3 mm	
JBC-C115222	1,6 x 0,3 mm	
JBC-C115214	1,8 x 0,5 mm	
JBC-C115223	2,4 x 0,6 mm	
SPOON SHAPE		
JBC-C115128	1 mm	

CAT. NO.	TIP DIMENSIONS	MM (IN)
BENT CONICAL SHAPE		
JBC-C115118	0,1 mm	
JBC-C115124	0,1 mm	
JBC-C115105	0,3 mm	
JBC-C115110	0,5 mm	
BLADE SHAPE		
JBC-C115111	3,5 x 0,5 mm	
JBC-C115211	3,5 x 0,7 mm	
KNIFE SHAPE		
JBC-C115120	1 x 0,2 mm	
JBC-C115112	2,5 x 0,3 mm	
JBC-C115212	2,5 x 0,3 mm	
JBC-C115129	2,5 x 0,2 mm	
SPECIAL SHAPE		
JBC-C115132	1 x 0,3 mm	
CONFORMAL COATING REMOVAL		
JBC-C115115	1 mm	



CARTRIDGES FOR JBC T210 HANDLES

CAT. NO.	TIP DIMENSIONS	MM (IN)
CONICAL SHAPE		
JBC-C210020	0,1 mm	
JBC-C210009	0,2 mm	
JBC-C210001	0,3 mm	
JBC-C210013	0,5 mm	
JBC-C210003	0,6 mm	
JBC-C210005	1 mm	
JBC-C210016	0,3 mm	
BEVELED CONICAL SHAPE		
JBC-C210006	1 mm	
JBC-C210027	1,5 mm	
JBC-C210031	2 mm	
JBC-C210036	4,6 mm	
CHISEL SHAPE		
JBC-C210019	0,2 x 0,1 mm	
JBC-C210023	0,4 x 0,2 mm	
JBC-C210021	0,6 x 0,3 mm	
JBC-C210024	0,8 x 0,3 mm	
JBC-C210022	1,3 x 0,4 mm	
JBC-C210008	1,3 x 0,6 mm	
JBC-C210007	2,3 x 0,7 mm	
KNIFE SHAPE		
JBC-C210033	2,5 x 0,3 mm	
JBC-C210018	3,4 x 0,3 mm	

CAT. NO.	TIP DIMENSIONS	MM (IN)
BENT CONICAL SHAPE		
JBC-C210002	0,2 mm	
JBC-C210010	0,3 mm	
JBC-C210014	0,5 mm	
JBC-C210004	0,7 mm	
SPOON SHAPE		
JBC-C210028	1 mm	
JBC-C210029	1,5 mm	
JBC-C210030	2 mm	
SPECIAL SHAPE		
JBC-C210017	0,7 mm	
JBC-C210015	0,8 mm	
JBC-C210038	0,8 mm	
JBC-C210012	1 mm	
JBC-C210025	1,1 mm	
PIN - TIP SHAPE (T210)		
JBC-C210017	0,7 mm	

CARTRIDGES FOR JBC AM120 AND PA120 HANDLES

CAT. NO.	TIP DIMENSIONS	MM (IN)
BENT CONICAL SHAPE		
JBC-C120001	0,2 mm	
JBC-C120002	0,2 x 3 mm	
JBC-C120902	0,3 x 3 mm	
JBC-C120006	0,5 x 3 mm	
JBC-C120004	0,7 x 3 mm	
JBC-C120011	0,6 mm	
JBC-C120012	0,7 mm	

CAT. NO.	TIP DIMENSIONS	MM (IN)
TWEEZER BLADE SHAPE		
JBC-C120003	3 mm	
JBC-C120005	5 mm	
JBC-C120007	3,5 mm	
JBC-C120008	3,5 mm	
JBC-C120009	6 mm	
JBC-C120010	6 mm	
SPECIAL SHAPE		
JBC-C120013	2 mm	



CARTRIDGES FOR JBC T245 HANDLES

CAT. NO.	TIP DIMENSIONS	MM (IN)
CONICAL SHAPE		
JBC-C245030	0,3 mm	
JBC-C245036	0,4 mm	
JBC-C245930	0,5 mm	
JBC-C245032	0,4 mm	
JBC-C245001 JBC-C245201*	0,6 mm	
JBC-C245903 JBC-C245803*	1 mm	
JBC-C245041	1 mm	
JBC-C245107	3 mm	
JBC-C245937	0,6 mm	
JBC-C245403	1 mm	
JBC-C245957	0,8 mm	
JBC-C245943	1,7 mm	
JBC-C245933	2,2 mm	
BENT CONICAL SHAPE		
JBC-C245034 JBC-C245234*	0,4 mm	
JBC-C245029	0,4 mm	
JBC-C245929	0,6 mm	
JBC-C245904 JBC-C245804*	1,2 mm	
JBC-C245126	0,4 mm	
JBC-C245748	0,6 mm	
JBC-C245259	1,5 mm	
JBC-C245260	2 mm	
JBC-C245627	2,9 mm	
JBC-C245628	3,9 mm	
JBC-C245786	0,4 mm	
JBC-C245935	0,8 mm	
BEVEL BENTSHAPE		
JBC-C245749	0,6 mm	
MINI WAVE SHAPE		
JBC-C245067	2,3 mm	
JBC-C245965	1,9 mm	
JBC-C245931	2,7 mm	
JBC-C245938	3,8 mm	

CAT. NO.	TIP DIMENSIONS	MM (IN)
BEVELED CONICAL SHAPE		
JBC-C245064	1,3 mm	
JBC-C245102	2 mm	
JBC-C245784	2,8 mm	
JBC-C245710	1,2 mm	
JBC-C245793	2,8 mm	
JBC-C245056 JBC-C245256*	3,5 mm	
JBC-C245766	5 mm	
JBC-C245747	0,6 mm	
JBC-C245905	1,5 mm	
JBC-C245945 JBC-C245845*	2,2 mm	
JBC-C245912 JBC-C245812*	3 mm	
JBC-C245951	3,8 mm	
CHISEL SHAPE		
JBC-C245768	0,3 x 1,5 mm	
JBC-C245731	0,6 x 0,3 mm	
JBC-C245773 JBC-C245673*	0,8 x 0,3 mm	
JBC-C245170	1 x 0,5 mm	
JBC-C245774	1,2 x 0,3 mm	
JBC-C245406	1,2 x 0,7 mm	
JBC-C245906 JBC-C245806*	1,2 x 0,7 mm	
JBC-C245944 JBC-C245844*	1,8 x 0,8 mm	
JBC-C245907 JBC-C245807*	2,2 x 1 mm	
JBC-C245729	2,7 x 1 mm	
JBC-C245061 JBC-C245261*	3 x 1 mm	
JBC-C245911 JBC-C245811*	3,2 x 1,2 mm	
JBC-C245742	0,8 x 0,6 mm	
JBC-C245407	2,2 x 1 mm	
JBC-C245741	2,4 x 0,6 mm	
JBC-C245770	2,4 x 0,3 mm	
JBC-C245122	1,5 x 0,5 mm	
JBC-C245775	3,2 x 1,2 mm	
JBC-C245708	4,8 x 1,5 mm	
JBC-C245755	4 x 0,8 mm	
JBC-C245908 JBC-C245808*	4,8 x 1,5 mm	
JBC-C245756	4,8 x 1 mm	
JBC-C245967	5 x 1 mm	
JBC-C245069	5 x 1,7 mm	
JBC-C245966 JBC-C245866*	6,6 x 1,8 mm	
JBC-C245759	2,4 x 0,5 mm	

* - these tips are 20 mm longer than standard ones, making it easier to access hard-to-reach joints.



CARTRIDGES FOR JBC T245 HANDLES

CAT. NO.	TIP DIMENSIONS	MM (IN)	CAT. NO.	TIP DIMENSIONS	MM (IN)
CHISEL BENT SHAPE			DUAL IN LINE SHAPE		
JBC-C245732	3,2 x 1,5 mm		JBC-C245220	5,4 x 6 mm	
JBC-C245761	3 x 1 mm		JBC-C245250	5,4 x 8 mm	
JBC-C245962 JBC-C245862*	1,2 x 0,7 mm		JBC-C245221	5,4 x 10 mm	
JBC-C245946 JBC-C245846*	2,2 x 1 mm		JBC-C245303	6,5 x 6 mm	
JBC-C245963 JBC-C245863*	1,8 x 0,8 mm		JBC-C245222	7,5 x 13,5 mm	
BEVELSHAPE			JBC-C245306	9,6 x 10 mm	
JBC-C245405	1,5 mm		JBC-C245305	9,6 x 12 mm	
JBC-C245795	2,5 mm		JBC-C245304	9,6 x 15 mm	
JBC-C245301	8,8 mm		JBC-C245215	9,6 x 18 mm	
JBC-C245797	3,8 mm		JBC-C245226	15,2 x 29 mm	
BLADE SHAPE			SPECIAL SHAPE		
JBC-C245121	13 mm		JBC-C245016	1,9 mm	
JBC-C245138	9,9 x 12 mm		JBC-C245017	2,2 mm	
KNIFE SHAPE			JBC-C245150	2,3 x 1,6 mm	
JBC-C245789	0,3 x 3,8 mm		JBC-C245757	3,2 x 1,5 mm	
JBC-C245765	0,4 x 6 mm		JBC-C245018	3,4 mm	
JBC-C245939	6 x 0,4 mm		JBC-C245758	4,3 x 2,5 mm	
JBC-C245940	6 x 0,1 mm		JBC-C245019	4,5 mm	
JBC-C245941	6 x 1 mm		JBC-C245052	4,9 mm	
JBC-C245955	13 x 0,5 mm		JBC-C245054	6,5 x 2,1 mm	
CONFORMAL COATING REMOVAL			JBC-C245754 JBC-C245654*	0,75 x 3 mm	
JBC-C245109	4,3 x 0,1 mm		JBC-C245751 JBC-C245667**	1,25 x 3 mm	
CONFORMAL COATING REMOVAL			JBC-C245669	1,25 x 5 mm	
CONFORMAL COATING REMOVAL			JBC-C245790	0,8 x 1,8 mm	
CONFORMAL COATING REMOVAL			JBC-C245785	1,5 x 4 mm	
CONFORMAL COATING REMOVAL			JBC-C245763	2,5 x 4 mm	
CONFORMAL COATING REMOVAL			JBC-C245760	3,5 x 5 mm	
CONFORMAL COATING REMOVAL			JBC-C245762	1,8 x 6,7 mm	
CONFORMAL COATING REMOVAL			JBC-C245764	0,5 mm	
CONFORMAL COATING REMOVAL			JBC-C245796	0,75 x 3 mm	
CONFORMAL COATING REMOVAL			MICRO STICK SWITCH SHAPE		
CONFORMAL COATING REMOVAL			JBC-C245136	6,5 x 7,1 mm	

* - these tips are 20 mm longer than standard ones, making it easier to access hard-to-reach joints.

** - these tips are 12 mm longer than standard ones, making it easier to access hard-to-reach joints.



CARTRIDGES FOR JBC T245 HANDLES

CAT. NO.	TIP DIMENSIONS	MM (IN)
QFP SHAPE		
JBC-C245223	8,5 x 8,5 mm	
JBC-C245224	12 x 12 mm	
JBC-C245351	12,3 x 12,3 mm	
JBC-C245228	12,4 x 15 mm	
JBC-C245315	15 x 15 mm	
JBC-C245352	15,4 x 15,4 mm	
JBC-C245227	17,5 x 17,5 mm	
JBC-C245344	26 x 26 mm	

CAT. NO.	TIP DIMENSIONS	MM (IN)
BLADE SHAPE		
JBC-C245752	2,2 x 15 mm	
JBC-C245913	2,2 x 21 mm	
JBC-C245914	2,4 x 10 mm	
JBC-C245776	2,4 x 37 mm	
JBC-C245949	2,4 x 32 mm	
JBC-C245792	2,4 x 40 mm	
JBC-C245799	0,4 x 4,5 mm	

CARTRIDGES FOR JBC AL250 AND AP250 HANDLES

CAT. NO.	TIP DIMENSIONS	MM (IN)
BENT CONICAL SHAPE		
JBC-C250420	0,4 mm	
JBC-C250401	0,6 mm	
JBC-C250403	1 mm	
JBC-C250402	0,8 mm	
JBC-C250409	1,7 mm	
JBC-C250410	2,2 mm	
BEVEL SHAPE		
JBC-C250414	2,2 mm	
JBC-C250424	3 mm	
JBC-C250415	3,8 mm	
JBC-C250426	1,3 mm	

CAT. NO.	TIP DIMENSIONS	MM (IN)
CHISEL SHAPE		
JBC-C250407	1,2 x 0,7 mm	
JBC-C250408	2,2 x 1 mm	
JBC-C250411	4,8 x 1,5 mm	
JBC-C250413	2,2 x 1 mm	
CHISEL BENT SHAPE		
JBC-C250404	1,2 x 0,7 mm	
JBC-C250406	2,2 x 1 mm	
JBC-C250405	1,8 x 0,8 mm	
JBC-C250418	3,2 x 1,5 mm	
JBC-C250412	4,8 x 1,5 mm	

JUNIOR TIP CLEANER



JBC-CLMS-B

DESCRIPTION

- This automatic cleaner improves thermal transfer of the tip in only 1 second, which means you save time and optimize production.
- The operator just needs to press the button of the opening with the tool and two motorized brushes will clean the tip. It is also possible to select the continuous mode.
- The splashguard helps keep the bench always clean and free of Foreign Object Debris (FOD).
- The CLMS - B can be fitted into any work area thanks to its reduced size and it is very easy to maintain. The solder collector tray can be emptied and re-used with no wear and tear.



CLMU UNIVERSAL TIP CLEANER



JBC-CLMU-A

DESCRIPTION

- Universal Tip Cleaning Device
- Cleans the tip in just 1 second, improving its heat transfer capability to maximize soldering quality
- Fine-bristle metal brushes with a 50 mm diameter ensure thorough and intensive cleaning of the tip
- Features two operating modes: standby and continuous
- Designed to keep the workspace free from foreign object debris (FOD)
- Ambient operating temperature: 10 to 40°C

BRASS WOOL



JBC-CL6210

METAL BRUSH FOR COMPACT STATIONS & MANUAL TIP CLEANER



JBC-CL6217

METAL BRUSHE FOR COMPACT STATIONS



JBC-CL6220

SPONGE FOR COMPACT STATIONS & MANUAL TIP CLEANER



JBC-S0354

SCH-A CARTRIDGE HOLDER



JBC-SCH-A

**PACE ST-25 SOLDERING STATION**

PC-80070510

DESCRIPTION

- Precisely controlled and stabilized temperature
- Temperature adjustment lockout
- More than 90 tips and soldering nozzles available
- Heating element of high thermal capacity
- Target temperature signalling
- Completely ESD/EOS safe
- Good price-performance and quality ratio

STANDARD EQUIPMENT

- ST-25 power supply
- PS-90 soldering iron
- Tip & Tool stand
- Sponge and brass wool tip cleaner

POWER SUPPLY	230 V 50/60 Hz
POWER CONSUMPTION	Max. 90 W
DIMENSIONS	104 x 130 x 152 mm
WEIGHT	2,3 kg
TEMPERATURE RANGE	176°C - 482°C
TEMPERATURE STABILITY	+/- 1,1°C
OPERATION INDICATOR	Color-coded LED

PACE ADS200 SOLDERING STATION

ADS200 station with standard tool stand

PC-80070580

DESCRIPTION

- Optional Instant SetBack (ISB) tool stand automatically lowers temperature when iron is in the stand to extend tip life and save energy (PC-60190089)
- Housing, tool stand and TD-200 iron endure extreme, multi-shift production use
- Wide-angled design of tool stand allows easy insertion and removal of the TD-200 Iron, yet holds it securely
- Meets ANSI/ESD S13.1-2015 and S20.20 specifications
- AccuDrive™ absolute temperature accuracy eliminates the need for routine, costly calibration
- Digital LED display viewable at all angles

STANDARD EQUIPMENT

- ADS power supply
- TD-200 soldering iron

POWER SUPPLY	230 V 50/60 Hz
POWER CONSUMPTION	Max. 120 W
DIMENSIONS	104 x 130 x 152 mm
WEIGHT	2,3 kg
TEMPERATURE RANGE	193°C - 454°C
TEMPERATURE STABILITY	+/- 1,1°C



MBT 360 - THREE-CHANNEL REWORK STATION



PC-80070598

DESCRIPTION

- Microprocessor-Based Process Control
- Three-Channel Device for SMD and PTH Component Removal and Installation
- The most popular device used in production companies and service centers
- Standard-equipped with handles: SX-100, TD-200, MT-200
- Enables: removal and installation of all PTH components and most SMDs, as well as cleaning of solder joints
- Built-in compressor
- Snap-Vac System
- ISB function and automatic shut-off extend tip lifespan by up to 6 times
- Power supply: 230V, 50Hz

OPTIONAL EQUIPMENT

- PS-90 Handle
- TT-65 Thermotweezers
- SX70 Handle

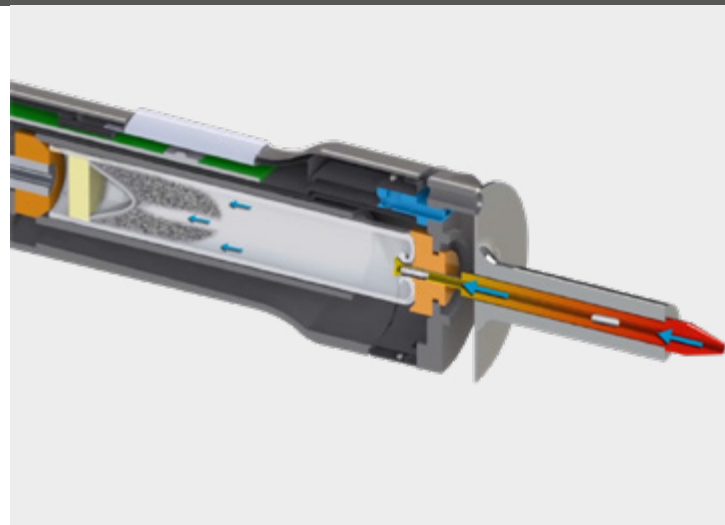
POWER SUPPLY	230V, 50Hz
POWER CONSUMPTION	Max. 240W
DIMENSIONS	135x165x260 mm
OPERATING TEMPERATURE (ACCUDRIVE®)	177 - 454°C
OPERATING TEMPERATURE (SENSATEMP®)	37 - 482°C
TEMPERATURE STABILITY	1.1°C
TIP-TO-GROUND RESISTANCE	< 2 Ohms

SNAP-VAC TECHNOLOGY

Patented by PACE Snap-Vac technology extends vacuum time by 1.2 sec.

It is the optimal time to ensure that all of the molten solder is pulled from the joint and is pulled back into the collection chamber before it solidifies to prevent tip clogging and pad damaging.

Snap-Vac technology significantly extends life of tips as well as the device itself.





PACE ST-125 SINGLE CHANNEL DESOLERING STATION



PC-80070608

DESCRIPTION

- Microprocessor control system - many advanced options
- Allows: disassembly of through - hole components and selected SMD components
- SX - 100 soldering iron as standard
- Built - in „quiet“ compressor
- Modular extension - also with soldering function
- Snap - Vac system extending the suction cycle by 1.2 sec
- The SensaTemp technology ensures stable operating temperature when working with large components

STANDARD EQUIPMENT

- Power station
- SX - 100 soldering iron with stand

POWER SUPPLY	230V, 50/60Hz
POWER CONSUMPTION	Max. 120W
DIMENSIONS	104x130x152 mm
OPERATING TEMPERATURE	38-482°C
TEMPERATURE STABILITY	1.1°C
TIP-TO-GROUND RESISTANCE	< 2 Ohms

ACCUDRIVE™ CONTROL TECHNOLOGY



HOW IT WORKS?

At the heart of the ADS200 lies PACE's new AccuDrive™ Technology. AccuDrive™ allows you to set honest, highly-accurate temperatures, without the need to change cartridges or calibrate.

It's advanced electronics provide instantaneous load sensing and on-demand power to quickly reflow solder joints at safe, low temperatures, regardless of the mass of the application.

UNBEATABLE RESULTS

AccuDrive™ delivers consistent, repeatable results in both light and heavy-use environments and provides the operator with the flexibility that is essential in today's demanding production operations.

Regardless of your application, AccuDrive™ delivers unsurpassed thermal performance, productivity and bottom-line cost savings!



PS-90 SOLDERING IRON



SensaTemp® Kit (handpiece with Tip & Tool stand)	PC-69930199
IntelliHeat® Kit (handpiece with Tip & Tool stand)	PC-69930267

PS-90 SINGLE POINT SOLDERING TIPS

CAT. NO.	
PC-11210335	
PC-11210336	
PC-11210337	
PC-11210349	
PC-11210359	
PC-11210360	
PC-11210361	
PC-11210406	
PC-11210414	
PC-11210490	
PC-11210499	
PC-11210500	
PC-11210533	
PC-11210610	

DESCRIPTION

- Universal soldering iron ideal for most soldering applications and SMT rework operations
- Completely ESD/EOS safe
- Heat resistant, elastic power cord
- Wide range of SMD and Thru-Hole installation and removal capability as well as unsurpassed thermal performance on heavy, multilayer Thru-Hole assemblies
- 'Hot-swappable' tip-heater cartridges
- Heating element of high thermal capacity

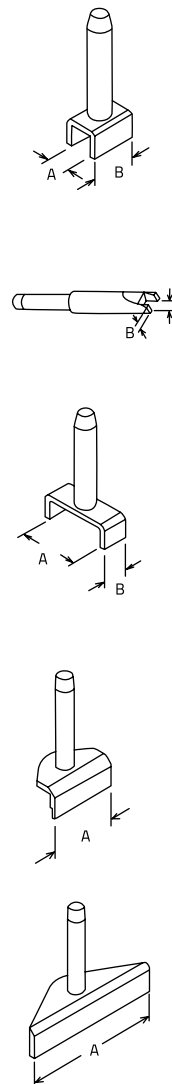
STANDARD SOLDERING IRON OF

- ST-25
- PRC-2000

OPTIONAL SOLDERING IRON OF

- ST-30
- ST-50
- ST-70
- MBT-301
- MBT-350

PS-90 SURFACE MOUNT REMOVAL TIPS



TYPE	A (mm)	B (mm)	CAT. NO.
SOIC - 8 (JEDEC)	5,05	5,08	PC-11210390
SOIC - 14 (JEDEC)	5,05	8,99	PC-11210391
SOIC - 16 (JEDEC)	5,05	10,2	PC-11210392

TYPE	A (mm)	B (mm)	CAT. NO.
COMPONENT	3,56	2,03	PC-11210303

TYPE	A (mm)	B (mm)	CAT. NO.
TSOP	19,33	8,1	PC-11210403

TYPE	A (mm)	CAT. NO.
CONNECTORS	7,6	PC-11210512*
	10,2	PC-11210514*
	17,8	PC-11210416*
	20,3	PC-11210497*



TD-100A IRON, INTELLIHEAT



PC-60100168

DESCRIPTION

- Innovative combination of tip and radiator in one module
- The most technologically advanced soldering iron designed in accordance with the principles of ergonomics. It is a very convenient tool that eliminates operator's fatigue, significantly increases his productivity
- The length and width of the iron handle have been optimally adapted to allow free, effective work also when working with high density PCBs
- Full ESD protection
- Heat resistant, very flexible power cord
- Combining the tip and the radiator in one module brings a number of benefits:
 - Reduction of the distance between the tip and the heater - temperature measurement directly on the tip, several times per second
 - Constant regulation of the delivered heat energy and precise, fully automatic temperature regulation - optimal quality of every connection made
- Very simple and quick change of tips during work
- The heating level can be changed freely using only one tip
- Operating costs are reduced by up to 75%

STANDARD EQUIPMENT

- TD - 100 soldering iron with power cord

COMPATIBILITY

- WJS 100 | MBT 301 | MBT 350 | ST 50 | ST 100 | ST 30 | ST 70

TIPS FOR TD-100A HANDLE

CAT. NO.				CAT. NO.			
PC-11240001				PC-11240014			
PC-11240002				PC-11240015			
PC-11240003				PC-11240016			
PC-11240004				PC-11240017			
PC-11240005				PC-11240018			
PC-11240006				PC-11240019			
PC-11240007				PC-11240020			
PC-11240008				PC-11240021			
PC-11240009				PC-11240022			
PC-11240010				PC-11240023			
PC-11240011				PC-11240024			
PC-11240012				PC-11240025			
PC-11240013				PC-11240026			



CAT. NO.	
PC-11240027	
PC-11240028	
PC-11240029	
PC-11240030	
PC-11240031	
PC-11240032	
PC-11240033	
PC-11240034	
PC-11240035	
PC-11240036	
PC-11240037	
PC-11240038	
PC-11240039	
PC-11240040	
PC-11240041	
PC-11240042	
PC-11240043	
PC-11240044	
PC-11240045	
PC-11240046	

- conical
- bevel

- round
- chisel

MiniWave

TD-100 DIAMOND SERIES - EXTENDED LIFE SOLDERING TIPS



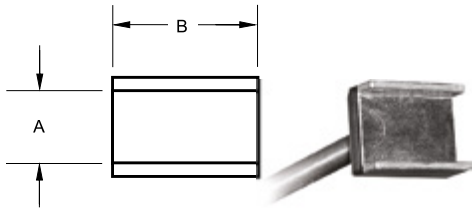
Patented Diamond/Iron plating process using real diamonds that provides improved thermal performance and long life when working with Lead Free solder.

TD-100 SURFACE MOUNT REMOVAL TIPS

CAT. NO.	TYPE	A (mm)	
PC-11240518	CHIP 0402	1,0	
PC-11240533	CHIP 0201 Angle	0,5	
PC-11240520	CHIP 1808	5,0	
PC-11240521	CHIP 0402	1,0	
PC-11240534	CHIP 0201	0,5	
PC-11240522	SOT 23	1,8	
PC-11240523	SOT 89	2,8	
PC-11240524	SOT 1206	3,6	
PC-11240525	SOT 0805	2,4	

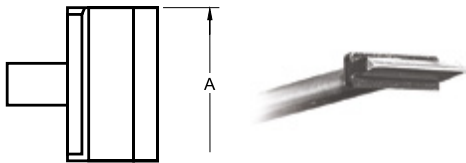


TD-100 SOIC/SOP REMOVAL TIPS



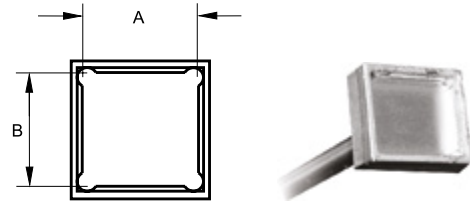
TYPE	A (mm)	B (mm)	CAT. NO.
SOIC 14/16	5,2	10,5	PC-11240504
SOIC 20	9,6	13,6	PC-11240505
SOP 28	10,8	18,6	PC-11240506
SOP 40	11,9	25,7	PC-11240507
SOP 44	13,1	28,4	PC-11240508
TSOP 56	18,8	14,1	PC-11240509
TSOP 28	12,0	8,5	PC-11240510
SOIC 8	5,1	4,65	PC-11240519
TSOP 40	18,8	10,4	PC-11240526

TD-100 PAD CLEANING TIPS



A (mm)	CAT. NO.
6,0	PC-11240536
10,8	PC-11240501
6,0	PC-11240502
21,2	PC-11240503
25,0	PC-11240532

TD-100 QFP/PLCC REMOVAL TIPS



TYPE	A (mm)	B (mm)	CAT. NO.
PLCC 28 SOCKET	9,3	9,3	PC-11240511
PLCC 32	14,2	11,7	PC-11240512
PLCC 44	16,8	16,8	PC-11240513
QFP 144	20,6	20,6	PC-11240514
PLCC 28	11,8	11,8	PC-11240515
QFP 100/128	22,0	16,0	PC-11240516
PLCC 18	7,6	12,8	PC-11240528
TQFP 80	12,5	12,5	PC-11240529
PLCC 52	19,4	19,4	PC-11240530
QFP 100	26,6	26,6	PC-11240531
VQFP 100	15,5	15,5	PC-11240535
TQFP 64	15,3	15,3	PC-11240537


TD-200 TIP-HEATER CARTRIDGE SOLDERING IRON


PC-60100166

DESCRIPTION

- AccuDrive™ Blue Series Tip-Heater cartridges provide instantaneous load sensing and on-demand power to quickly reflow solder joints at the lowest, safest temperature required, regardless of the mass of the application
- Sleek and ergonomic aluminum handle designed to stay cool and comfortable during continuous production soldering
- Capable of delivering instant heat-up/recovery, whether it's a high thermal mass
- Applications (D-Paks) or delicate micro-soldering application (0201's)
- Burn-resistant, ESD-safe cord is soft and flexible, withstanding direct contact with hot tips
- Ultra short tip-to-grip – 48mm (1.9") for precision operator dexterity under magnifier or microscope
- From tip to the end of the cord, the TD-200 protects your ESDsensitive devices

TD-200 ACCUDRIVE™ BLUE SERIES TIP-HEATER CARTRIDGES – STANDARD

CAT. NO.	DESCRIPTION	
PC-11300001	1/32" Conical Sharp Extended (0,80 mm)	
PC-11300002	1/64" Conical Sharp (0,40 mm)	
PC-11300003	1/64" Conical Sharp Bent 30° (0,40 mm)	
PC-11300004	1/64" Conical Sharp Extended (0,40 mm)	
PC-11300010	13/64" Extra Large Chisel (5,15 mm)	
PC-11300011	1/64" 60° Bevel (0,40 mm)	
PC-11300012	1/32" 30° Chisel (0,80 mm)	
PC-11300013	3/32" 30° Chisel (2,38 mm)	
PC-11300016	3/64" 30° Bent Chisel (1,20 mm)	

CAT. NO.	DESCRIPTION	
PC-11300019	1/16" 30° Chisel (1,59 mm)	
PC-11300020	1/8" 90° Chisel (3,18 mm)	
PC-11300026	1/16" 30° Bent Chisel (1,59 mm)	
PC-11300032	MiniWave® (3,05 mm)	
PC-11300033	Angled MiniWave® (3,05 mm)	
PC-11300035	Angled MiniWave® (2,11 mm)	
PC-11300036	1/128" Conical (0,20 mm)	
PC-11300037	1/4" Flat Blade (6,35 mm)	
PC-11300050	1/128" Conical, Special (0,20 mm)	
PC-11300051	1/8" 30° Chisel (3,18 mm)	



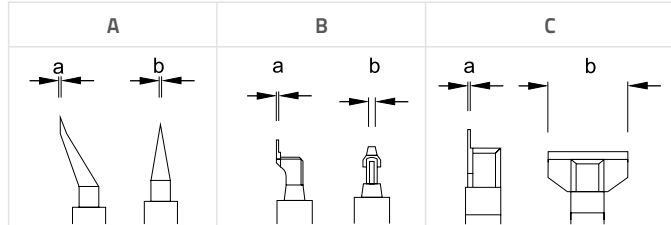
MT-100 MINITWEEZ SURFACE MOUNT REWORK TWEEZER HANDPIECE



PC-69930264

DESCRIPTION

- Most versatile surface mount component removal tweezers
- Designed for reworking of miniature sized chip components as small as 0201, 0402 and 0603, MT-100 can also handle larger SOT and SOIC components
- Tip & Tool stand



TYPE	A	B	CAT. NO.
CHIP (A)	0,2 mm (.008")	0,2 mm (.008")	PC-11241001
CHIP, SOT (B)	0,7 mm (.03")	0,5 mm (.03")	PC-11241002
	0,7 mm (.03")	1 mm (.04")	PC-11241003
SOIC, SOT, TSOPS (C)	0,7 mm (.03")	2 mm (.08")	PC-11241004
	0,7 mm (.03")	6 mm (.24")	PC-11241005
	0,7 mm (.03")	8 mm (.31")	PC-11241006
	0,7 mm (.03")	10 mm (.39")	PC-11241007
	0,7 mm (.03")	13 mm (.51")	PC-11241008
	0,7 mm (.03")	18 mm (.74")	PC-11241009
	0,7 mm (.03")	28 mm (1.09")	PC-11241010

TP-100 THERMO-PIK HANDPIECE



PC-69930280

DESCRIPTION

- TP-100 is designed to reflow and remove QFP's LQFP's, TQFP's
- Patented Tip-Heater technology
- Integrated vacuum pik lifts component from the PCB upon reflow
- Adjustable vacuum pik allows removal of components as high as 3.4 mm
- Ergonomic design, based on our unique MT-100 handpiece
- Burn-resistant, ESD-safe cord

TYPE	LEAD COUNT	A	B	HEIGHT	FOOTPRINT	CAT. NO.
LQFP/TQFP	80	12 mm	12 mm	1,4 mm	2,0 mm	PC-11242001
	64, 80, 100, 120, 128, 168	14 mm	14 mm	1,4 mm	2,0 mm	PC-11242002
	128, 144, 160, 176	20 mm	20 mm	1,4 mm	2,0 mm	PC-11242003
	176, 216	24 mm	24 mm	1,4 mm	2,0 mm	PC-11242004
	208, 256	28 mm	28 mm	1,4 mm	2,0 mm	PC-11242005
QFP	52, 64, 80, 100	14 mm	14 mm	2,7 mm	3,2 mm	PC-11242006
	52, 64, 80, 100	14 mm	14 mm	2,7 mm	3,9 mm	PC-11242007
	64, 80, 100, 128	14 mm	20 mm	2,7 mm	3,2 mm	PC-11242008
	120, 128, 144, 160, 208	28 mm	28 mm	3,4 mm	2,6 - 3,2 mm	PC-11242010



SX-100 SODR-X-TRACTOR DESOLDERING HANDPIECE



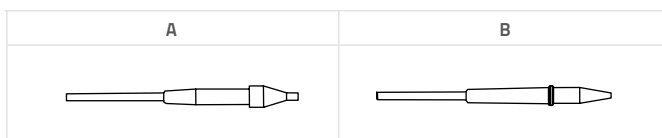
DESCRIPTION

- New 2 and 4-sided Pik-Tips allow safe, rapid reflow and removal of a wide variety of TSOP's, QFP's and Flatpacks
- Flo-D-Sodr desoldering tips available for safe removal of excess surface solders, excellent for BGA pad clean-up
- ESD-safe, rugged and durable construction
- Burn-resistant, ESD-safe cord
- Modular heater has been re-engineered to transfer heat better through the length of new SX-100 tips

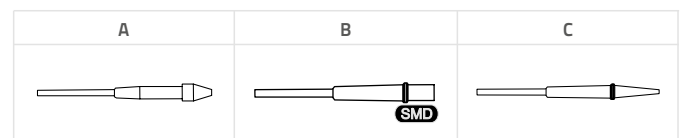
SensaTemp® Kit (includes Handpiece with Tip & Tool stand) **PC-69930213**

IntelliHeat® Kit (includes Handpiece with Tip & Tool stand) **PC-69930266**

SX-100 DESOLDERING TIPS



Typ	OUTER DIAMETER (mm)	INNER DIAMETER (mm)	CAT. NO. FOR SX-70	CAT. NO. FOR SX-80/90/100
A	2,29	0,76	PC-11210628	PC-11210935
	2,54	1,02	PC-11210629	PC-11210936
	3,05	1,52	PC-11210630	PC-11210937
	1,91	0,76	-	PC-11210938
	2,20	1,02	-	PC-11210939
	2,69	1,52	-	PC-11210940
B	1,79	0,50	PC-11210680	PC-11210941
	2,03	0,76	PC-11210678	PC-11210942
	2,29	1,02	PC-11210679	PC-11210943
	2,79	1,52	PC-11210690	PC-11210944
	1,39	0,635	-	PC-11210949
	1,14	0,635	-	PC-11210950



Typ	OUTER DIAMETER (mm)	INNER DIAMETER (mm)	CAT. NO. FOR SX-70/SX-80	CAT. NO. FOR SX-100
A	2,03	0,76	PC-11210625	PC-11210930
	2,29	1,02	PC-11210624	PC-11210931
	3,05	1,52	PC-11210626	PC-11210932
	5,10	2,29	PC-11210627	PC-11210933
	5,10	4,00	-	PC-11210951
B	4,78	1,52	PC-11210631	PC-11210945
C	1,78	0,50	PC-11210681	PC-11210946
	2,03	0,76	PC-11210682	PC-11210947
	2,29	1,02	PC-11210683	PC-11210948



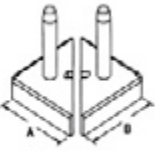
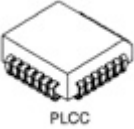

TT-65 THERMOTWEEZ THERMAL TWEEZER HANDPIECE



PC-70250001

DESCRIPTION

- TT-65 ThermoTweez provides safe, one-handed reflow and removal of 2-sided chip components, SIT's, SOIC's, SOJ's and is the only Thermal Tweezer that can handle large PLCC's, QFP's and other four sided components
- High thermal capacity and targeted heat removes large SMDs in just seconds without damage to the board of the risk of adjacent components reflow even on heavy assemblies

TIP TYPE	SIZE (mm)	CAT. NO.
 Standard wall (thickness 1.3 mm)	PLCC-20 6,86 x 6,86	PC-11210316
 PLCC	PLCC44 / PQFP84 14,5 x 14,5	PC-11210318
 PQFP	PLCC52 / PQFP100 17,0 x 17,0	PC-11210319

TIP TYPE	DESCRIPTION	SIZE (mm)	CAT. NO.
	SOIC, SOJ, SIMMs	A=10,2	PC-11210514
	SOIC, SOJ, SIMMs	A=12,7	PC-11210473
 Standard wall (thickness 1.3 mm)	CHIP	A=0,76	PC-11210398
	CHIP	A=2,0	PC-11210313
 Standard wall (thickness 0.43 mm)	Thin-Walled Chip Component (vertical)	A=0,76	PC-11210520
		A=2,0	PC-11210521
		A=0,43	PC-11210517
	SOIC, SOJ, SIMMs Component	A=17,8	PC-11210416
		A=25,4	PC-11210448

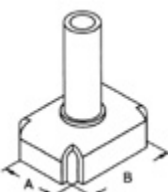
TP-65 THERMOPIK HANDIECE




PC-70240001

DESCRIPTION

- TP-65 ThermoPik handiece provides safe, one-handed reflow and removal of a wide variety of QFPs and flatpaks

TIP TYPE	DIMENSION (mm)	CAT. NO.
	15,5 x 21,6	PC-11210322001
	16,8 x 22,9	PC-11210322002
	PQFP-64/80; 15,7 x 15,7 mm	PC-11210484
	PQFP-84; 18,3 x 18,3	PC-11210324
	PQFP-100; 20,8 x 20,8	PC-11210325

TIP TYPE	DIMENSION (mm)	CAT. NO.
 PQFP	PQFP-132 25,9 x 25,9	PC-11210326
	PQFP-144 29,2 x 29,2	PC-11210456
	PQFP-208; 30,0 x 30,0	PC-11210544
	PQFP-160/208; 31,0 x 31,0	PC-11210351
	PQFP-196; 36,3 x 36,3	PC-11210483



TJ-70 THERMOJET HOT AIR/CONVECTIVE HANDPIECE



PC-70230002

DESCRIPTION

- TJ-70 Mini ThermoJet provides safe, rapid installation or removal of chip components, SOT's, SOIC's, PLCC's, QFP's and other surface mounted devices via controlled convective/hot air
- Ideal for the precise application of hot air for 0201s
- ESD-safe, rugged and durable construction
- Burn-resistant, ESD-safe cord

STANDARD EQUIPMENT

- TJ-70 ThermoJet handpiece
- Tip & Tool stand

TJ-70- THERMOJET HANDPIECE TIPS

CAT. NO.	DESCRIPTION		CAT. NO.	DESCRIPTION	
PC-11210330	SOIC A=4,32 mm		PC-11210366	Small, Straight, Single Jet Tip	
PC-11210338	Small, Curved, Single Jet Tip		PC-11210371	A=6,1 mm B=1,88 mm	
PC-11210365	A=7,11 mm B=1,88 mm				

TJ-85 THERMOJET HOT AIR PENCIL



PC-69930270

DESCRIPTION

- TJ-85 ThermoJet Slim-Line Hot Air Pencil is ideal for delivering convective heat for the installation and removal of chip components, SOTs, and SOICs
- Handpiece's slim line, pencil grip design maximizes operator comfort and control
- Multiple quick-change nozzle sizes are available
- TJ-85's airflow is actuated with a foot pedal (provided) and provides safe, „instant use“ capability without constant running of an air pump
- Ideal for the precise application of hot air for 0201s
- Useful for conformal coating removal via spot heating of coating which softens adhesives, urethanes and epoxies
- ESD-safe, rugged and durable construction
- Burn-resistant, ESD-safe cord

TJ-85 THERMOJET HANDPIECE TIPS

A	B	C

TYPE	DESCRIPTION	TIP SIZE	CAT. NO.
A	Flat Nozzle	6,1 x 1,9 mm	PC-12590131
B	Curved Nozzle	1,5 mm	PC-12590130
C	Straight Nozzle	1,5 mm	PC-12590129



PACE HANDPIECE & POWER SOURCE CHARTS

HANDPIECE	DESCRIPTION	CAT. NO. OF HANDLES WITH BASE	CAT. NO. OF STAND	HANDLE CAT.NO.								
TD-200 (IntelliHeat)	Suitable for most precision work, the tip is integrated in the heating element	PC-69930317	PC-60190089	PC-60100166								
MT-100 (IntelliHeat)	Tip-heater cartridge based tweezer for 2 sided SMD removal	PC-69930264	PC-60190080	PC-60100148								
TP-100 (IntelliHeat)	QFP removal tool with integrated component vacuum pick to lift reflowed component	PC-69930280	PC-60190080	PC-60100158								
TJ-70 (SensaTemp)	Provides focused hot air for component installation and SMT land preparation	PC-69930292	PC-60190082	PC-70230002								
TJ-70 (IntelliHeat)				PC-70230003								
TJ-85 (IntelliHeat)	A foot-pedal activated precision air pencil for the installation or removal of SMDs	PC-69930270	PC-60190081	PC-60100153								
TJ-85 (SensaTemp)				PC-60100142								
PS-90 (IntelliHeat)	High Capacity Soldering Iron for the most demanding applications	PC-69930267	PC-60190081	PC-60100150								
PS-90 (SensaTemp)				PC-60100131								
SX-100 (SensaTemp)	The latest innovation in desoldering. Features disposable or reuseable solder traps	PC-69930213	PC-60190082	PC-60100106								
SX-100 (IntelliHeat)				PC-60100149								
TT-65 (IntelliHeat)	High capacity tweezer for large or small SMDs	PC-69930207	PC-60190083	PC-60100151								
TT-65 (SensaTemp)				PC-70250001								
TP-65 (SensaTemp)	Handle with integrated vacuum gripper. For disassembly: QFP, LQFP, TQFP	PC-69930205	PC-60190082	PC-70240001								
		TIP-HEATER CARTRIDGE TECHNOLOGY HANDPIECES				SENSATEMP™ TECHNOLOGY HANPIECES						
		TD-100	TD-200	MT-100	TP-100	PS-90	SX-100	TT-65	TP-65	TJ-70	TJ-85	
Standard Soldering		•	•			•						
High Mass Soldering						•						
Micro Soldering		•	•									
Chip Installation		•	•	•		•		•		•	•	
Solder Wicking		•	•			•				•	•	
Thru-Hole Desoldering							•					
SMT Land Preparation		•	•			•	•			•	•	
Solder Removal from Lands							•					
Large SMD Removal					•			•	•			
Standard SMD Removal		•	•	•	•	•		•	•			
Micro SMD Removal		•	•	•		•		•		•	•	
Large, standard and micro component installations		•	•			•				•	•	
POWER SOURCE OPTIONS – ST AND MBT SYSTEMS												
Tip-Heater Cartridge Technology Handpieces	ADS200	ST-25	ST-30	ST-50	ST-70	WJS-100	ST-100	ST-65	ST-75	ST-115	MBT-301	MBT-350
TD-100			•	•	•	•	•	◊	◊	◊	•	•
TD-200	•											
MT-100			◊	◊	◊	◊	◊	◊	◊	◊	◊	•
TP-100								◊	◊	◊	◊	◊
SensaTemp™ Technology Handpieces	ADS200	ST-25	ST-30	ST-50	ST-70	WJS-100	ST-100	ST-65	ST-75	ST-115	MBT-301	MBT-350
PS-90		•	◊	•	◊	◊	◊	◊	◊	◊	◊	◊
SX-100								•	•	•	•	•
TT-65		◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊
TJ-85									◊	◊	◊	◊

◊ - Optional Handpiece | • - Standard Handpiece



SODR-X-TRACTOR FILTER (SX-80, SX-90, SX-100)



PC-13090018

DESCRIPTION

- Filter for glass chamber handles
- Compatibility:
 - SX-70,
 - SX-80,
 - SX-90,
 - SX-100

FLUX/SODR TRAP FOR: SX-80, SX-90, SX-100



PC-13090054

DESCRIPTION

- Replaceable filter for handles
- Compatibility:
 - SX-90
 - SX-100
 - SX-80
- Weight: 0.003 kg

REPLACEABLE VISIFILTER



PC-13090028

DESCRIPTION

- Protects the compressor against flux particles
- Used with handle:
 - SX - 80
 - SX - 90
 - SX - 100
- Weight: 0,013 kg

REPLACEABLE VISIFILTER ELEMENT



PC-13090027

DESCRIPTION

- Replacement cartridge for Visi Filter
- Compatibility:
 - SX-100

PACE PS-80/90 HEATER ASSEMBLY



PC-60100095-PS-90

DESCRIPTION

- Heating element for PS-90 soldering iron handle
- Weight: 0,027 kg



GOOT MSD-20 BATTERY POWERED SOLDERING IRON



GO-MSD20

DESCRIPTION

- 350°C in 15 seconds
- Ergonomic handle construction
- Safety cap
- Operating time: alkaline batteries - 40 min / Ni-MH approx. 60 min

GOOT SOLDERING IRON PX-201



GO-PX201-CE

DESCRIPTION

- Wide-range iron with temperature adjuster
- Ergonomic grip
- Safety cap
- Wide range of tips

STANDARD EQUIPMENT

- Soldering iron
- GO-PX2RTSB tip

TIPS FOR PX-201 SOLDERING IRON

CAT. NO.	DIAMETER		CAT. NO.	DIAMETER	
GO-PX2RT16D	1,6 mm		GO-PX2RT5C	5 mm	
GO-PX2RT24D	2,4 mm		GO-PX2RT5K	5 mm	
GO-PX2RT2C	2,1 mm		GO-PX2RT8S	8 mm	
GO-PX2RT32D	3,2 mm		GO-PX2RTB	0,5 mm	
GO-PX2RT3C	3 mm		GO-PX2RTBC	1 mm	
GO-PX2RT4D	4 mm		GO-PX2RTSB	0,3 mm	

TECHNICAL SPECIFICATION

MODEL	MSD-20	PX-201
POWER SUPPLY	4,5 V (3 bateries AA type)	220 - 240 V, 50/60 Hz
POWER CONSUMPTION	6 W	70 W
TEMP. SETTING RANGE	Over 450°C	250°C - 450°C
LENGTH	180 mm	210 mm
WEIGHT	52 g	Approx. 90 g



GOOT SOLDERING STATION RX-802AS



GO-RX802AS

DESCRIPTION

- Fastest in its class - reaches set temperature in just 6 seconds after turning power on
- Microprocessor station at a very attractive price
- Ergonomic grip
- Tip replacement without tools - easy and quick
- Safety cover to prevent accidental change of settings

STANDARD EQUIPMENT

- RX-802AS soldering station
- Soldering station iron stand

POWER SUPPLY	220 - 240 V, 50/60 Hz	
POWER CONSUMPTION	80 W	
TEMP. SETTING RANGE	50°C - 450°C	
INSULATION RESISTANCE	100 MΩ	
DIMENSIONS	Control unit: 146 x 115 x 98 mm	Iron unit: 158 mm
WEIGHT	Control unit: 1,8 kg	Iron unit: 28 g
LEAK VOLTAGE	< 2 mV	
GROUND RESISTANCE	< 2 Ω	
CORD LENGTH	1,2 m/1,2 m	

TIPS FOR GOOT RX-802AS SOLDERING STATIONS

CAT. NO.		CAT. NO.	
GO-RX80HRT05C		GO-RX80HRTB	
GO-RX80HRT1BC		GO-RX80HRTBM	
GO-RX80HRT1C		GO-RX80HRTLb	
GO-RX80HRT2C		GO-RX80HRTSB	
GO-RX80HRT2CD		GO-RX80HRT08D	
GO-RX80HRT3C		GO-RX80HRT12D	
GO-RX80HRT3CD		GO-RX80HRT45K	
GO-RX80HRT16D		GO-RX80HRT3K	
GO-RX80HRT24D		GO-RX80HRT45KH	
GO-RX80HRT32D		GO-RX80HRT47C	
GO-RX80HRTLBJ		GO-RX80HRT54D	
GO-RX80HRT4C			



GOOT SOLDERING STATION RX-852AS



GO-RX852AS-CE

DESCRIPTION

- Ideal for high-power work
- Large thermal capacity
- Fastest in its Class
- Easy tip replacement
- Thick tip coating for lead-free soldering
- Key lock

STANDARD EQUIPMENT

- RX-852AS soldering station
- Soldering iron stand

POWER SUPPLY	220 - 240 V, 50/60 Hz	
POWER CONSUMPTION	145 - 170 W	
TEMP. SETTING RANGE	50°C - 450°C	
INSULATION RESISTANCE	100 MΩ	
DIMENSIONS	Control unit: 194 x 116 x 105 mm	Iron unit: 174 mm
WEIGHT	Control unit: 4,8 kg	Iron unit: 39 g
LEAK VOLTAGE	< 2 mV	
GROUND RESISTANCE	< 2 Ω	
CORD LENGTH	1,5 m/1,5 m	

TIPS FOR GOOT RX-852AS

CAT. NO.		CAT. NO.	
GO-RX85HRT2BC		GO-RX85HRT5D	
GO-RX85HRT3BC		GO-RX85HRT7D	
GO-RX85HRT5BC		GO-RX85HRT6K	
GO-RX85HRT7BC		GO-RX85HRTB	
GO-RX85HRT3D			



DEN-ON SC-7000Z DESOLERING TOOL



DL-SC-7000Z

DESCRIPTION

- Target temperature signalling
- Protection against ESD
- Pump built-in structure with a temperature control circuit
- Direct connection between the diaphragm pump and the tip can provide high vacuum efficiency which can accommodate for 8-12 layered PCB
- Removal of SMD components can be easily done by a flick of the selector lever and by replacing the tip with the hot blow nozzle
- Patented, multi-use filter cartridge will last long life
- Combination of a 100W ceramic heater with sensor feedback temperature control circuit and high vacuum capacity can provide best work efficiency with no failure
- Three-core, silicon, heat resistant power cord

STANDARD EQUIPMENT

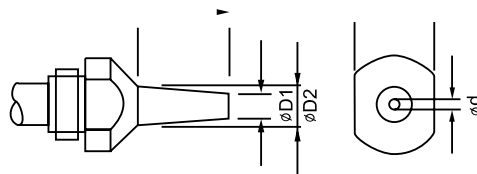
- SC-7000Z Desoldering Tool
- Desoldering Tip of 1mm (standard)
- Filter Cartridge (2 pieces)
- Cleaning pin (set)

Stand for SC-7000Z

RE-HM-86229

POWER SUPPLY	230 V, 50 Hz
POWER CONSUMPTION	Max. 120 W
HEATER	100W (Ceramic)
MOTOR OUTPUT	12 W
TEMPERATURE RANGE	350°C - 500°C
VACUUM ATTAINED	650 mm Hg
TIME REQUIRED MAX VACUUM	0,2 s
PUMP	Diaphragm Tip
AIR FLOW RATE	15 l/min
TEMPERATURE STABILIZATION SYSTEM	Heater resistance measurement
WEIGHT	420 g

SC-7000Z OPTIONAL TIPS



CAT. NO.	SPECIFICATION	MARKING	$\varnothing d$	$\varnothing D1$	$\varnothing D2$	L (mm)
DL-50-01-11	0,8 Std	0,8	0,8	2,5	7,0	12,5
DL-50-01-12	0,8 SLIM	0,85	0,8	2,0	6,0	14,0
DL-50-01-13	0,8 U.SLIM	5,8	0,8	1,5	5,0	11,5
DL-50-01-14	1,0 Std	1,0	1,0	2,5	7,0	12,5
DL-50-01-15	1,5 Std	1,5	1,5	3,0	7,0	12,5
DL-50-01-16	1,0 SLIM	1,05	1,0	2,0	6,0	14,0
DL-50-01-17	1,5 SLIM	1,55	1,5	2,2	6,0	14,0



SC-7000Z OPTIONAL NOZZLES

NOZZLE TYPES	TYPE	DIMENSIONS A X B	CAT. NO.
	PQFP	23 x 17 mm	DL-71-01-01
	PQFP-160/208	30 x 30 mm	DL-71-01-02
	PQFP-68	15,5 x 15,5 mm	DL-71-01-03
	PQFP-44/56	12,5 x 12,5 mm	DL-71-01-04
	PQFP-100BP	20 x 20 mm	DL-71-01-05
	PQFP-64/68	16,5 x 16,5 mm	DL-71-01-06
	PQFP	22 x 16 mm	DL-71-01-07
	PLCC-44 PQFP-84	14,5 x 14,5 mm	DL-71-01-08
	PLCC-52 PQFP-100	17,5 x 17,5 mm	DL-71-01-09
	PQFP-84	18,5 x 18,5 mm	DL-71-01-10
<p>PLCC</p>	PQFP-100	21 x 21 mm	DL-71-01-11
	PLCC-68 PQFP-132	22 x 22 mm	DL-71-01-12
	PQFP-132BP	25 x 25 mm	DL-71-01-13
	PQFP-132	26 x 26 mm	DL-71-01-14
<p>PQFP</p>	PLCC-84 PQFP-160	28 x 28 mm	DL-71-01-15
	PQFP-144	29 x 29 mm	DL-71-01-16
	PLCC-100	34 x 34 mm	DL-71-01-17
	PQFP-196	36 x 36 mm	DL-71-01-18

CLEANING RAMRODS FOR SC-7000Z

PHOTO	DESCRIPTION	COMPATIBILITY	CAT. NO.
	Triple cleaning ramrod for SC-7000Z	SC-7000Z	DC-70-51-00

REMOVAL OF SURFACE MOUNTED DEVICES SMD

The SC-7000Z desoldering tool, equipped with an SMD kit, enables the removal of components mounted using SMT technology via hot air blowing.

When removing PQFP, SOP, or PLCC components, a wire or steel tape is used to separate the component leads from the PCB traces after the solder has been melted. For SMD component removal, the SC-7000Z tip is replaced with a blowing nozzle, the filter is swapped with an empty container, and the compressor switch is set to the „blow“ position.



REMOVAL OF PLCC



REMOVAL OF QFP, PQFP OR SOP



SMD kit includes:

- A - Hot-blow filter pipe
- B - Stainless wire and blade
- C - Holder
- D - Hot-blow nozzle



PORTASOL SUPER PRO 125 SOLDERING IRON



PO-SUPER-PRO

DESCRIPTION

- Adjustable temperature
- Piezo self-ignition
- Possibility of every plain work
- Heated up to 350°C temperature in 20 seconds
- When protective hood is placed on iron, automatically butane gas is cut off
- Built-in gas container, possibility of multi refill (10 seconds refill time)
- Open flame work possibility (blow torch function)

STANDARD EQUIPMENT

- Comes with a 2.4 mm DF tip attached
- Protective hood

POWER CONSUMPTION		Max. 125 W	
LENGTH		233 mm	
WEIGHT		165 g	
RUN TIME		Approx. 90 min.	
MAX. TIP TEMPERATURE	BLOW-OUT AIR	580°C	650°C
REFILL TIME		10 sec.	

PORTASOL SUPER PRO 125 SOLDERING IRON KIT



PO-SP-ZESTAW

STANDARD EQUIPMENT

- Super PRO 125 gas soldering iron
- Tips: 3 pcs
- Hot air blowing nozzle
- „Hot knife” tip
- „Shield” nozzle
- Plastic carrying case
- Tip cleaning sponge
- Protective cap

SUPER PRO 125 TIPS

CAT. NO.	SIZE/TYPE		CAT. NO.	SIZE/TYPE	
PO-SP-1	1 mm		PO-SP-7	3,2 mm	
PO-SP-2	2,4 mm		PO-SP-8	4,8 mm	
PO-SP-3	3,2 mm		PO-SP-9	Hot Air	
PO-SP-5	1 mm		PO-SP-12	Deflector	
PO-SP-6	2,4 mm				



PORTASOL PROFESSIONAL SOLDERING IRON



PO-PROFESSIONAL

DESCRIPTION

- Wireless gas soldering iron
- Power adjustment from 10 to 60 W
- Built-in lighter into protective hood
- Possibility of every plain work
- Heats up to 350°C temperature in 20 seconds
- 7 kinds of tips
- When protective hood is placed on iron automatically butane gas is cut off
- Built-in gas container, possibility of multi refill (10 seconds refill time)
- Open flame work possibility (blow torch function)

STANDARD EQUIPMENT

- PROFESSIONAL soldering iron
- PO-SP-6 tip
- Protective cover with ignition

POWER CONSUMPTION	60 W
LENGTH	177 mm
WEIGHT	60 g
OPERATING TIME	Approx. 60 min.
POWER SUPPLY	Butane gas (lighter gas)
MAX TIP TEMPERATURE	400°C
REFILL TIME	10 sec.

PORTASOL PROFESSIONAL KIT



PO-P-ZESTAW

STANDARD EQUIPMENT

- PROFESSIONAL solder iron with a standard tip PO-P-2
- Standard PO-P-2 tip
- Precise flame
- Hot Air blow-out nozzle
- Hot knife tip
- Sponge for tips cleaning
- Plastic case
- Built-in lighter into protective hood

PROFESSIONAL TIPS

CAT. NO.	SIZE		CAT. NO.	TYPE	
PO-P-1	1,0 mm		PO-P-5	Precise flame	
PO-P-2	2,4 mm		PO-P-6	Hot-air blow-out	
PO-P-3	3,2 mm		PO-P-7	Hot knife	
PO-P-4	4,8 mm				



PORTASOL GAS BURNERS TORCH 220 / 820



DESCRIPTION

- Lightweight, ergonomic gas torch
- Designed for:
 - Melting and shaping plastic
 - Paint removal (scorching)
 - Jewelry repair
- The gas torch is ideal wherever the user need:
 - Mobile operation without electric power – field service (e.g., automotive, telecommunications)
 - Durable joint creation
 - Work in hard-to-reach areas
- Piezoelectric igniter
- Adjustable flame length: 9 to 12 cm
- Average operating time: 60 minutes
- Ignition lock
- Standard gas refill valve
- Base-mountable
- Fuel level viewing window

CAT. NO.	PO-GT220	PO-HP820
POWER CONSUMPTION	From 50 to 220 W	From 50 to 820 W
MAX. FLAME LENGTH	90 mm	120 mm
AVERAGE RUN TIME	60 minutes	45 minutes
GAS FILLING TIME	10 s	
MAX. TEMPERATURE	1350°C	
POWER SUPPLY	Butane lighter gas	
WEIGHT	133 g	166 g

PORTASOL PLASTIC WELDING KIT



PO-PP75PWK

DESCRIPTION

- Heat transfer occurs through direct contact with the material being repaired
- Welding can be performed near components sensitive to high temperatures (wires, textiles, foam)
- Optimal welding temperature allows for the repair of thin sections and plastic sheets
- Eliminates oxidation of repaired parts
- A space-efficient method, ideal for repairing both small and large defects
- Suitable for welding foam plastic

STANDARD EQUIPMENT

- Pro Piezo gas soldering iron
- Standard welding tip
- Piston for welding device
- Brass brush
- Stainless steel reinforcement mesh
- ABS plastic
- PE (polyethylene)
- PP (polypropylene)
- PS (polystyrene)
- Case

**PACE ST-300 CONVECTIVE HOT AIR REFLOW SYSTEM**

PC-80070428

DESCRIPTION

- Self-contained system for the manual installation and removal of SMD's
- Unit offers a non-contact heating method for the manual installation and removal of virtually any standard surface mount component including BGAs, QFNs, SOICs and many other SMDs
- Easy to operate
- Hi-Flo Vacuum Pump for holding component securely
- Quiet-Flo turbine blower reduces operating noise
- ST 300 comes with the Lo-Flo pump and the vacuum wand (PV-65 Pik-Vac Wand) for manipulating components manually
- Capabilities of ST 300 can be greatly enhanced when coupled with optional accessories (PACE preheaters and Z-Axis platforms)
- Lockable temperature and airflow adjustment knobs

STANDARD EQUIPMENT

- ST-300 power supply with powerful handpiece
- PV-65 Pik-Vac vacuum wand

POWER SUPPLY	197 - 253 V, 50 Hz, Max. 575 W
TEMPERATURE RANGE	176 - 482°C nominal
AIRFLOW	5 - 22 slpm
TEMPERATURE STABILITY	+/- 9°C at idle tip temp.
DIMENSIONS	134 x 245 x 264 mm
WEIGHT	4,5 kg

PACE ST-325 DIGITAL, PROGRAMMABLE HOT AIR REFLOW SYSTEM

PC-80070432

DESCRIPTION

- ST-325 allows the create 'Profiles' that consist of time, temperature and airflow parameters to ensure process control and repeatability
- Unit offers a non-contact heating method for the manual installation and removal of virtually any standard surface mount component including BGAs, QFNs, SOICs and many other SMDs
- Fully Programmable via user-friendly front panel interface
- Microprocessor controlled, easy programming and profile development
- Capabilities of ST 300 can be greatly enhanced when coupled with optional accessories (PACE preheaters and Z-Axis platforms)
- Optional PC software is available for additional profile development capability
- Quiet-Flo internal turbine blower for silent operation
- Single Jet, Box, BGA and Pattern Nozzles are available for a wide variety of surface mount components

STANDARD EQUIPMENT

- ST-325 power supply
- ST 325's powerful handpiece
- PV-65 Pik-Vac component handling wand

POWER SUPPLY	197 - 264 V, 50 Hz, Max. 575 W
TEMPERATURE RANGE	176° - 482°C
AIRFLOW	5 - 22 slpm
TEMPERATURE STABILITY	+/- 9°C at idle tip temp.
DIMENSIONS	133 x 260 x 248 mm
WEIGHT	4,5 kg



DEN-ON RD-500V / RD-500SV REWORK SYSTEM



DESCRIPTION

- All-in-one advanced technology SMT rework stations compatible for the rework of all different types of SMT components
- Wide support to industrial large-scale and small-scale circuit boards, including 01005 components
- Improved sampling (0,1 sec intervals) allows a very accurate temperature control
- Equipped with powerful 1000W heaters on both the top and bottom, and the area heater has six 600W IR heaters, which build up heat very quickly
- Temperature can be controlled from the basic 5 zones up to a maximum of 30 zones. In addition to this temperature management, the equipment's mechanical operations per zone (i.e. heater, pick-up tube height settings, audible alarms, etc.) can be easily edited
- Enclosed solder printing tool allows solder paste application directly into any device's solder balls

CAT. NO.	DL-RD-500V	DL-RD-500SV
MAX. PCB SIZE	500 x 700 mm	400 x 420 mm
POSITIONING ACCURACY	+/- 0,015 mm	
COMPONENT SIZE	01005 (0402 mm) or more	
BOTTOM HOT AIR HEATER	1000 W	
TOP HOT AIR HEATER	1000 W	
AREA HEATER	600 W x 6 IR 3600 W	500 W x 4 IR 2000 W
TEMPERATURE SETTING RANGE	0 - 650°C	

CONVECTION PREHEATER PHBE-K



JBC-PHBE-2KB

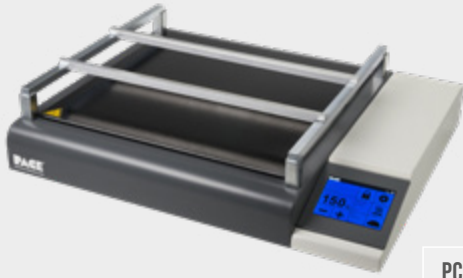
DESCRIPTION

- The JBC PHBK convection preheater is the ideal solution for preheating large multilayer PCBAs using convection technology.
- It allows for gradual heating, reducing the risk of thermal shock to the substrate and components, and enables working with lower temperatures on components connected to ground planes.
- In addition to power and temperature modes, it offers powerful profile functionality for rework tasks. Temperature is monitored using an external thermocouple, and heat is automatically regulated by the control console, which can store up to 25 different profiles.
- The ability to connect up to 4 external thermocouples provides highly precise control over component heating during the process. It can also be used to protect sensitive components or specific areas of the PCBA.
- The unit features two independent working zones, defining a heating area of either 180 x 277 mm or 360 x 277 mm.

POWER SUPPLY POWER CONSUMPTION	230 V	1800 W
DIMENSIONS	426 x 444 x 41 mm	
OPERATING TEMPERATURE	50-250°C	



PACE PH-100 PREHEATER



PC-80070573

DESCRIPTION

- Promotes rapid solder reflow while preventing heat damage and thermal stress or shock
- Ensures homogenous temperatures across package/PCB
- Decreases warping & maintains planarity of the rework site
- Reduces top-side temperature and dwell-time requirements
- Increases soldering iron tip-life by allowing lower tip temperatures

POWER SUPPLY	230 V, 50 - 60 Hz
WORKING FIELD	300 x 300 mm
HEATING ELEMENTS	4 x 400 Watt, Medium Wave IR Emitters (250 mm x 60 mm / 9.8" x 2.4" ea.)
TEMPERATURE RANGE	20°C - 200°C
DIMENSIONS	355 x 430 x 60 mm
BOARD SIZE CAPACITY	Handles large 295 mm (11.625") x unlimited PCB's

PACE ST-400 RADIANT/IR PREHEATER



PC-80070436

DESCRIPTION

- Preheating allows for the use of significantly lower and safer temperatures when conductive or convective tools are used for component installation or removals
- Recommended when installing area array components and large leaded devices
- Heat from the bottom side of the PCB keeps the PCB from twisting or warping
- Homogenous temperatures across the package and PCB

POWER SUPPLY	197 - 264 V, 50/60 Hz
POWER CONSUMPTION	Max. 405 W
TEMPERATURE RANGE	37 - 205°C
TEMPERATURE STABILITY	+/- 3°C at idle temp.
DIMENSIONS	105 x 178 x 318 mm

HOT PLATE FOR REBALLING AND SMD/BGA REPAIRS



FO-928S

DESCRIPTION

- Even heating on the whole plate
- The heating plate made of aluminium alloy provides excellent energy conduction for heated application.
- Two-line display:
 - Display for temperature set by the operator
 - Display for current temperature
- Duration of the process adjustable by potentiometer
- Built-in advanced radiant heating elements
- Thermal insulation prevents the chassis from heating up

POWER CONSUMPTION	Max. 1000 W
TEMPERATURE RANGE	0 - 400°C
TEMPERATURE STABILITY	+/- 1°C
PLATE DIMENSIONS	150 x 200 x 13 mm
DIMENSIONS	280 x 240 x 170 mm
HEAT-UP TIME TO 200 °C	6 min



PACE ST-500 Z-AXIS PLATFORM

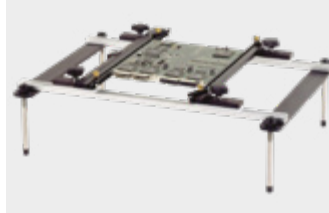


PC-69930258

DESCRIPTION

- Precise adjustment on the Z-axis
- Compatible with ST-400 and ST-450 preheaters
- Cable holder
- Works with ST-525/ST-550 holder

PACE PCB HOLDER



DESCRIPTION

- Precise adjustment on the X and Y axes
- Installation of PCBs with a maximum width of 46 cm

Holder ST-525 – 30.5 x 30.5 cm (max. PCB width)

PC-69930253

Holder ST-550 – 46 x 46 cm (max. PCB width)

PC-69930254

PACE N2 REGULATOR ASSEMBLY



PC-69930271

DESCRIPTION

- The N2 regulator can be mounted to any PACE system
- To use the controller, an N2 source must be connected to it

PACE DESOLDERING TIP CLEANING TOOL



PC-69930200

PACE REDI-RAK TIP & TOOL STAND



PC-60210008

PACE SPONGE CLEANING TOOL FOR SURFACE MOUNT TIPS



PC-11000233

PACE TIP MAINTENANCE STATION



PC-69930138

REECO HDPE DISPENSERS



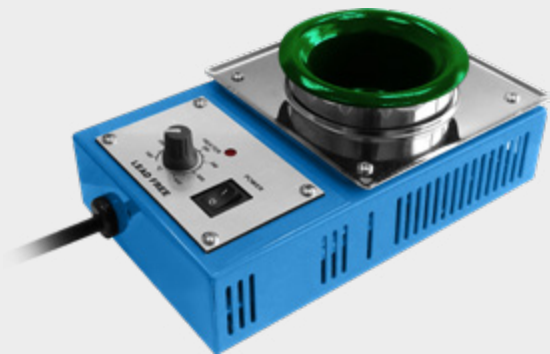
SPECIFICATION

CAT. NO.	CAPACITY	DOSING TYPE
RE-HM-1401-200	200 ml	ESD dispenser
RE-HM-1401-250	250 ml	ESD dispenser
RE-HM-001	60 ml	Bottle for flux with dispenser and needle
RE-HM-002	100 ml	ESD flux bottle dispenser
RE-HM-003	60 ml	ESD flux bottle with dispenser and needle

**REECO RE-30B SOLDER POT****RE-30B****DESCRIPTION**

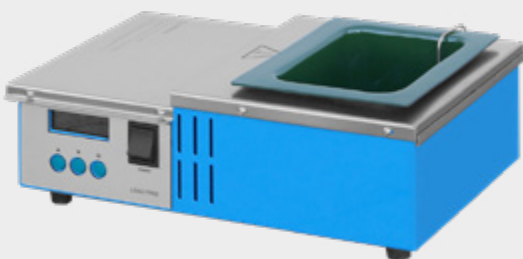
- Free temperature control from 150°C to 500°C
- Long, trouble-free operation
- Titanium Alloy solder pot
- Easy to use, good thermal properties

SOLDER POT DIMENSIONS (∅)	36 mm
WEIGHT	860 g
POWER CONSUMPTION	200 W
TEMPERATURE	500°C
DIMENSIONS	91 x 150 x 75 mm

REECO RE-50B SOLDER POT**RE-50B****DESCRIPTION**

- Easy temperature setting - electronic controller
- Durable and solid construction - stainless steel solder pot, sheet housings
- Exceptionally low price for a device of this class

SOLDER POT DIMENSIONS (∅)	50 mm
WEIGHT	Do 500 g
POWER CONSUMPTION	Max. 160 W
TEMPERATURE	430°C

REECO RE-600B SOLDER POT**RE-600B****DESCRIPTION**

- Precise temperature stabilization and regulation - electronic controller, temperature stabilizing thermostat
- Solid construction

SOLDER POT DIMENSIONS (∅)	98 x 121 mm
WEIGHT	Do 5500 g
POWER CONSUMPTION	Max. 600 W
TEMPERATURE	100°C - 450°C
DEPTH	58 mm



REECO RE-1900 GLUE/PASTE DISPENSER



RE-1900

DESCRIPTION

- Application control with specification of many parameters
- Allows dispensing of different types of liquids and pastes such as: adhesives, solder pastes, resins, silicones, varnishes etc.
- Solenoid valve provides a constant, even flow
- Foot control
- Special adapter applied on the syringe for easy dosing

**THE FULL RANGE OF DISPENSING ACCESSORIES IS AVAILABLE
IN OUR ONLINE STORE: SKLEP.RENEX.PL**

STANDARD EQUIPMENT

- Control unit
- 30 ml needle cylinder
- Pressure hose
- Set of needles
- Power supply
- Dispenser stand
- Pneumatic hose
- Cylinder adapter
- Gasket
- Manual

DOSING METHODS	Automatic, manual	
DOSING TIME	0,01 - 99,99 sec. adjustable	
TIME INTERVALS	0,1 - 9,9 sec. adjustable	
REPEATABILITY	+/- 0,05 %	
DIMENSIONS	238 x 150 x 60 mm	
WEIGHT	1,7 kg	
POWER SUPPLY	24 V DC	
AIR PRESSURE INPUT/OUTPUT	35 - 100 Psi (2,5 - 7 Bar)	1 - 100 Psi (0,1 - 7 Bar)

REECO TD-1 SOLDER WIRE FEEDER



RE-TD1

DESCRIPTION

- Work status - LED
- Allows fast and reliable work
- Light feeding tip
- ESD-safe grounding socket
- Works control switch placed on the handpiece or on the foot pedal
- Durable metal drive
- Spool is laid on the base with bearing

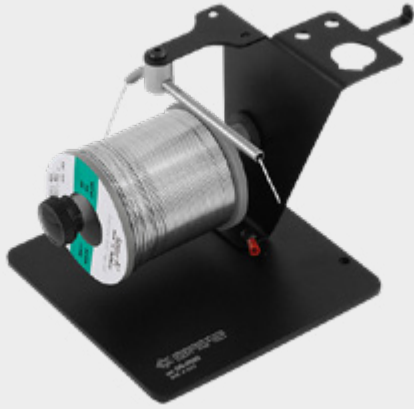
STANDARD EQUIPMENT

- Solder wire feeder
- Adapter for any solder handpiece
- The standard feeder allows feeding wire with a diameter of 1 mm
- AC adapter

POWER SUPPLY	12 V/300 mA AC
CORD LENGTH	1020 mm
DIMENSIONS	180 x 82 x 150 mm
SPOOLS WITH SOLDER	0,25 ; 0,5 kg



PIERGIACOMI SOLDER DISPENSER WITH TOOL HOLDER



PG-DS2500D

DESCRIPTION

- Binder feeder in the form of soldering wire (tin)
- Maintains order in the workplace thanks to tool holders (pliers, tweezers, screwdrivers)
- Italian, recognised producer - Piergiacomì
- Robust, solid and stable construction
- Possibility to add another holder for tin spool

DIMENSIONS

190 x 150 x 150 mm

WEIGHT

1,4 kg

LENGTH OF SPOOL HOLDER

100 mm

DIAMETER OF SPOOL HOLDER

15 mm

SUITABLE FOR ALL GAUGES UP TO

2500 g

PIERGIACOMI EXTENSION BRACKET



PG-DS2500ABD

DESCRIPTION

- Holder for tools and binder in the form of solder wire (tin)
- Provides the possibility of upgrading the PG - DS2500 and PG - DS25002B feeders
- Italian, renowned producer Piergiacomì
- Robust, solid and stable construction

PIERGIACOMI SOLDER DISPENSER WITH TOOL SET



PG-DS2500KD

DESCRIPTION

- Solder dispenser with guiding tube that keeps the working area tidy and reduces solder waste.
- Strong, solid and stable construction
- It is possible to add a second reel



KESTER LEADED SOLDER WIRE



LEADED SOLDER WIRE – Sn63Pb37

CAT. NO.	WEIGHT	DIAMETER
KE-245/58-06	0,5 kg	0,6 mm
KE-245/58-08-500	0,5 kg	0,8 mm
KE-245/58-10	0,5 kg	1,0 mm
KE-245/58-12	0,5 kg	1,2 mm

KESTER LEAD-FREE SOLDER WIRE



LEAD-FREE SOLDER WIRE – SN96,5AG3CU0,5

CAT. NO.	WEIGHT	DIAMETER
KE-275/58-04-250	0,25 kg	0,4 mm
KE-275/58-06	0,5 kg	0,6 mm
KE-275/58-08	0,5 kg	0,8 mm
KE-275/58-10	0,5 kg	1,0 mm

REECO LEAD-FREE CORED WIRE



DESCRIPTION

- RR45 flux-cored solder wire, designed for automated soldering.
- It features exceptionally low spatter and fast wetting on conventional surfaces.
- Melting temperature (solidus/liquidus): 217/220 °C.

LEAD-FREE CORED WIRE – Sn96.5Ag3.0Cu0.5

CAT. NO.	WEIGHT	DIAMETER	FLUX CONTENT
RE-RR22-08	0,5 kg	0,8 mm	2,2%
RE-RR33-08	0,5 kg	0,8 mm	3,3%
RE-RR45-08	0,5 kg	0,8 mm	4,5%

LEAD-FREE CORED WIRE – Sn99.3Cu0.7

RE-RC33-08	0,5 kg	0,8 mm	3,3%
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KESTER FLUX



TACKY SOLDERING FLUX

CAT. NO.	WEIGHT	ACTIVATION TEMPERATURE
KE-TSF6502-E-10CC	10 g	130°C - 185°C
KE-TSF6592-10CC	10 g	150°C - 217°C

KESTER LIQUID FLUX

CAT. NO.	SIZE (LITERS)	PERCENT SOLIDS
KE-985M	1 L	3,6 %
KE-952S	1 L	2,0 %
KE-959T	1 L	2,9 %

KESTER FLUX PEN

CAT. NO.	ACTIVATION TEMPERATURE
KE-952-D6	80°C
KE-186	120°C - 180°C



INDIUM CORPORATION



ABOUT THE COMPANY

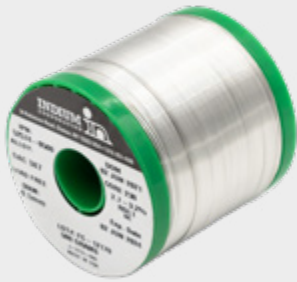
Indium Corporation® is a premier materials refiner, smelter, manufacturer, and supplier to the global electronics, semiconductor, thin-film, and thermal management markets. Since 1934, they have established global technical support and factories in China, Germany, India, Malaysia, Singapore, South Korea, the United Kingdom, and the United States.

INDIUM SOLDER WIRE



DESCRIPTION

Indium Corporation produces high-quality solder wire for various applications, including automated and robotic soldering for large-scale operations and scenarios where other methods are not possible. Their expertise and reliable materials enhance your processes and yields across diverse markets.



LEAD-FREE SOLDER WIRE – Sn95.5Ag3.8Cu0.7

CAT. NO.	WEIGHT	DIAMETER
IN-WIREFC-52574-0500	0,5 kg	0,508 mm
LEAD-FREE SOLDER WIRE – Sn96.5Ag3.0Cu0.5		
IN-WIREFC-52890-0454	0,454 kg	0,8 mm
IN-WIREFC-53063-0454	0,454 kg	1,27 mm
IN-WIREFC-53467-0500	0,5 kg	1,0 mm
IN-WIREFC-53478-0500	0,5 kg	0,5 mm

INDIUM FLUX



DESCRIPTION

Indium Corporation manufactures a variety of high-quality, proven flux products, ranging from wave flux to semiconductor fluxes, such as true no clean flip-chip flux, which they first introduced in various applications, including the most advanced 2.5D chip on wafer package application. Their flux products are formulated for superior performance to serve virtually any application where flux is required.



TACKY SOLDERING FLUX

CAT. NO.	WEIGHT	CLASSIFICATION
IN-FLUXOT-84399-C004	25 g	ROLO
IN-FLUXOT-84500-C002	25 g	ROLO
LIQUID FLUX		
CAT. NO.	SIZE (LITERS)	PERCENT SOLIDS
IN-FLUXWV-84376-5GL	18,9 L	4,37%



INDIUM SOLDER PASTES



DESCRIPTION

Solder paste, a blend of solder alloy powder and flux, is essential in electronics assembly, facilitating the precise placement and attachment of components on printed circuit boards (PCBs). Indium Corporation's solder paste sets the standard with its continuous innovation, engineered to minimize defects and deliver exceptional reliability across all applications.

LEAD-FREE SOLDER PASTES

KEY SOLDER PASTE: INDIUM8.9HF

Looking for an SMT Solder Paste that has Superior Printing and Voiding Performance?

Indium8.9HF is a no-clean, halogen-free solder paste that delivers versatility and stability in the printing process. Under optimal process conditions, Indium8.9HF:

- Delivers excellent response-to-pause even after being left on the stencil for 60 hours
- Maintains excellent printing and reflow performance after remaining at room temperature for one month
- Demonstrates consistent printing performance for up to 12 months when refrigerated

LOW-TEMPERATURE PRODUCTS

INDIUM5.7LT-1 A low-temperature, Pb-free solder paste designed for assembly processes using Bi-based and In-based low-temperature alloys.

NC-SMQ80 An InSn solder paste specially designed for low temperature applications that need high mechanical reliability.

WATER-SOLUBLE

INDIUM6.6HF Water-soluble halogen-free solder paste that is complementary with both Sn/Pb and Pb-free alloys.

INDIUM3.2 Industry-tested quality and reliability.

INDIUM3.2HF Halogen-free solder paste with similar performance to Indium3.2.

RMA

RMA-155 Solder Paste was designed to offer a balanced performance, making it ideal for high-complexity boards with a variety of component sizes. Compatible with both SnPb and SAC alloys, RMA-155 delivers consistent transfer efficiencies, excellent response-to-pause, and a strong oxidation barrier, even for long and hot profiles.

It is halogen-free, resists graping (even on small components and tiny deposits), prevents head-in-pillow, and minimizes voiding for BGAs and large thermal planes (QFNs).

RMA-155 solder paste conforms to the RMA classification for QQ-S0571F and offers proven performance similar to our best-in-class, award-winning Pb-free solder pastes.

NO-CLEAN

INDIUM8.9	Eliminates head-in-pillow (HiP).
INDIUM8.9E	Excellent print transfer efficiency for the broadest range of processes.
INDIUM8.9HF	Best all-around halogen-free paste.
INDIUM8.9HF1	To pair with our high-reliability alloys. Enables in-circuit probe testing
INDIUM8.9HFA	Superior printing for miniaturization.
INDIUM8.9HFC	Specially formulated to accommodate higher processing temperatures.
INDIUM8.9HFRV	High TCT performance, low voiding, no-clean paste.
INDIUM10.1	Best All-Around Halogen-Containing Solder Paste.
INDIUM10.2HF	A halogen-free SAC solder paste with excellent resistance to head-in-pillow (HIP) and non-wet opens (NWO) and unprecedented stencil print transfer efficiency.
INDIUM10.2HFA	Unprecedented stencil print transfer efficiency.
INDIUM10.1HF	Ultra-low voiding in air reflow.
INDIUM10.8HF	Addresses Non-Wet Opens (NWOs).
INDIUM12.8HF	Specifically for fine-feature printing.
NC-SMQ230	A SAC solder paste with consistent repeatable printing performance combined with long stencil and tack times.
INDIUM5.8LS	A halogen-free SAC solder paste designed for maximum print transfer efficiency and elimination of flux spattering.

GOLD-BASED SOLDER PASTE 80AU/20SN

Gold-tin solder paste is used in a variety of high-reliability applications, where its high melting point, non-creep, high-tensile stress, thermal and electrical conductivity, as well as proven usage life makes it a standard „known-good“ material.

AULTRA5.1	Used in high-power LED and MEMS.
AULTRA5.1LS	For difficult to solder surfaces in die-attach.
AULTRA3.2	Excellent for use in high-power LED module arrays.



LEAD-FREE SOLDER PASTES

DIE-ATTACH	
NC-SMQ®75	<p>The only solder paste suitable for use in non-cleaned clip-bonded applications in power semiconductor die-attach assemblies.</p> <ul style="list-style-type: none"> Superior wetting capabilities compared to most low residue formulations Trouble-free probe testing No-residue appearance

JETTING AND MICRODISPENSING SOLDER PASTE PRODUCTS

Jetting and Microdispensing is capable of precisely applying very small amounts of paste (7.5 nanoliters per drop) with a defined size (360 µm in diameter). This feature is essential in advanced technologies, such as the assembly of miniature components, where accurate dispensing is crucial.

PICOSHOT® NC-5M	No-clean formula.
PICOSHOT® WS-5M	Water-soluble formula.
PICOSHOT® NC-6M	No-clean formula.

TIN-LEAD

NO-CLEAN	
INDIUM8.9ES	Excellent print transfer efficiency for the broadest range of processes.
NC-SMQ92H	Modified version of NC-SMQ92J that maximizes print performance.
NC-SMQ92J	Industry-leading solder paste with a soft residue that reduces false failures at ICT.
NC-SMQ51SC	Exceptional stencil life and tack strength, and consistent print definition in ultra-fine pitch applications.
NC-SMQ80	Specialty solder paste (InPb) for soldering to gold surfaces.

WATER-SOLUBLE	
INDIUM6.6HF	Superior wetting to a variety of surface finishes and exhibits the best voiding performance.
INDIUM6.4R	A versatile, low-voiding solder paste (InPb).
INDIUM6.3	A low voiding solder paste with a wide reflow window.
RMA	
RMA-155	Low voiding solder paste with a wide reflow window.
RMA-SMQ51AC	A no-clean RMA solder paste with excellent soldering performance.

LEAD-FREE SOLDER PASTES				
SERIES	CATALOG NUMBER	ALLOY	PARTICLE SIZE	METAL CONTENT
INDIUM8.9HF	IN-801030	96,5Sn/3,0Ag/0,5Cu	Typ 4,5	88,25%
	IN-800495-C007	96,5Sn/3,0Ag/0,5Cu	Typ 4	88,5%
	IN-800495	96,5Sn/3,0Ag/0,5Cu	Typ 4	88,5%
	IN-800974	98,5Sn/0,5Ag/1,0Cu	Typ 4	88,5%
	IN-800638	98,5Sn/1,0Ag/0,5Cu	Typ 3	89%
INDIUM8.9HFA	IN-800714	96,5Sn/3,0Ag/0,5Cu	Typ 3	88,5%
	IN-800827	96,5Sn/3,0Ag/0,5Cu	Typ 4	88,25%
INDIUM8.9HF1	IN-800595	96,5Sn/3,0Ag/0,5Cu	Typ 3	88,5%
	IN-800596	96,5Sn/3,0Ag/0,5Cu	Typ 4	88,25%
INDIUM10.1	IN-801031	96,5Sn/3,0Ag/0,5Cu	Typ 4,5	88,75%
	IN-802050	96,5Sn/3,0Ag/0,5Cu	Typ 4,5	88,75%
	IN-801065	96,5Sn/3,0Ag/0,5Cu	Typ 4	88,5%
INDIUM10.1HFE	IN-801758	96,5Sn/3,0Ag/0,5Cu	Typ 4	89%
INDIUM5.7LT	IN-800847-C009	57Bi/42Sn/1Ag	Typ 3	84%
	IN-PASTEBO-800847	57Bi/42Sn/1Ag	Typ 3	84%
INDIUM6.6HF	IN-801641	96,5Sn/3,0Ag/0,5Cu	Typ 4,5	88,5%
TIN-LEAD PASTES				
NAME	CATALOG NUMBER	ALLOY	PARTICLE SIZE	METAL CONTENT
INDIUM NC-SMQ92J	IN-82295	62Sn/36Pb/2Ag	Typ 3	90%
	IN-82479	62Sn/36Pb/2Ag	Typ 4	89,5%



SOLDER PREFORMS



Solder Fortification® preforms are rectangular, flux-free metal alloy elements designed to reinforce solder joints by seamlessly integrating with solder paste during the reflow process.

Since they are made from the same alloy as the paste, they melt together, utilizing the flux contained in the paste, which ensures optimal adhesion and wetting.

These preforms significantly increase the solder joint volume, making them an ideal solution for fine-pitch applications (0.3 mm or smaller), where durable and reliable connections are crucial.

CAT. NO.	COMPOSITION	PIECES PER REEL
IN-151638	63Sn/37Pb	15000 szt.
IN-152978-15K	96,5Sn/3,0Ag/0,5Cu	15000 szt.
IN-155006-50K		50000 szt.
IN-155006-100K		100000 szt.

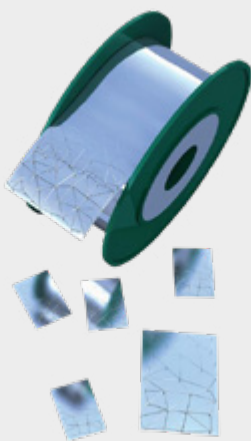
DESCRIPTION

Solder preforms are the most universal form of soldering material, engineered to solve unique sealing and thermal management challenges in widely varying industries. As the world's largest solder preform manufacturer, Indium Corporation relies on best-in-class technical support, extensive research, and development expertise to help solve your assembly challenges.

- Preforms are precisely shaped pieces of pure solder.
- They serve to supplement the volume of solder joints in areas where the amount of solder paste applied through a stencil is insufficient.
- They are manufactured in various shapes and sizes.
- Preforms may contain flux or be flux-free.

CAT. NO.	COMPOSITION	PIECES PER REEL
IN-RECTANGLETO-152145-1K	96,5Sn/3,0Ag/0,5Cu	1000 szt.
IN-RECTANGLETO-152978-1K		1000 szt.
IN-RECTANGLETO-155512-1K		1000 szt.
IN-RECTANGLETO-161610-2K		2000 szt.
IN-RECTANGLETO-152978-15K	58Bi/42Sn	15000 szt.
IN-RECTANGLEBO-172586-C001		2500 szt.
IN-RECTANGLEBO-173628-100 000		500 szt.
IN-RECTANGLEBO-173628-50.000		50000 szt.
IN-RECTANGLEFO-172061-100K	63Sn/37Pb	100000 szt.
IN-RECTANGLETO-151638-1K		1000 szt.
IN-RECTANGLETO-151934-1K		1000 szt.

INDIUM SOLDER RIBBON

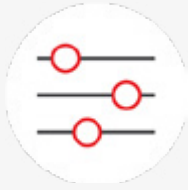


IN-RIBBONIN-10101

DESCRIPTION

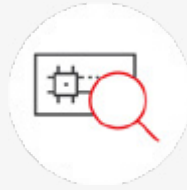
- Ind ribbon - High purity of precious metals 99.99%
- Pure indium ribbon is ideal for sealing, cryogenic applications, and joining many non - metals
- Indium ribbon also makes an excellent thermal interface and allows for CTE mismatch
- It can easily be cut into a variety of shapes and sizes.

ALLOY	WIDTH	LENGTH	THICKNESS	SOLID. TEMP.	MELTING TEMP.
99,9 IND	25,4 mm	305 mm	0,051 mm	157°C	157°C



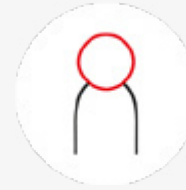
ANALYSIS AND SELECTION

- Consulting on material selection based on the technology used (reflow, wave, hand or robotic soldering)
- Selection of the recommended alloy, flux, and type of paste for the required application, taking into account the customer's equipment specifications
- Project analysis in terms of process requirements and risk assessment



TESTING AND TROUBLESHOOTING

- Conducting an interview focused on identifying key process issues
- Preparing the complete process from printing to solder joint quality assessment
- Guiding the customer step by step through the entire soldering process
- Preparing and implementing a soldering profile
- Evaluating solder joint quality using microscopic and X-ray inspection
- Diagnosing key process problems (voids, bridging, cold joints)



TRAINING AND SUPPORT

- Conducting training sessions on the use of soldering materials
- Support in shaping the printing, assembly, soldering, and inspection processes
- Remote assistance and evaluation of soldering quality (microscope and X-ray)
- Proposing solutions for new process challenges

RECO SOLDER PASTE MIXER



RE-TR-SPM-900

DESCRIPTION

- Reeco solder paste mixer will reliably prepare the right consistency of solder paste for the printing process
- High mixing efficiency thanks to the use of two rotating arms, allowing you to mix two containers at the same time
- Equipped with universal holders compatible with most commercial solder paste containers
- Distinguished from other paste mixers on the market, highest quality workmanship, while maintaining all safety standards during use
- Intuitive to use
- Clock for setting mixing time
- A knob for setting the mixing speed
- Equipped with a weight to mix only one container

INSN HEAT-SPRING® KIT



IN-85534

DESCRIPTION

- Indalloy1E Repair Kit (52In/48Sn)
- Alloy composition: 52% Indium, 48% Tin
- Shape: 5x5 cm square, 20 pieces
- Thickness: 0.2 mm
- Includes: adhesive gel, adhesive tapes, and pads



GOOT DESOLDERING WICKS



DESOLDERING WICKS

CAT. NO.	WIDTH	LENGTH
GO-CP1515	1,5 mm	1,5 m
GO-CP2015	2,0 mm	1,5 m
GO-CP2515	2,5 mm	1,5 m
GO-CP3015	3,0 mm	1,5 m
GO-CP3515	3,5 mm	1,5 m
GO-CP15B	1,5 mm	30 m
GO-CP20B	2,0 mm	30 m
GO-CP25B	2,5 mm	20 m
GO-CP30B	3,0 mm	20 m
GO-CP35B	3,5 mm	15 m

BGA SOLDER BALLS



DESCRIPTION

- Lead-free balls:
 - Ball sizes: 0.20 - 0.76 mm
 - Ball diameter tolerance: +/- 0.02 mm
- Lead balls:
 - Ball sizes: 0,20 - 0,76 mm
 - Ball diameter tolerance: +/- 0,02 mm

LEAD-FREE BALLS		LEAD BALLS	
CAT. NO.	DIAMETER	CAT. NO.	DIAMETER
FO-BGA 030 PB FREE	0,30 mm	FO-BGA 035	0,35 mm
FO-BGA 035 PB FREE	0,35 mm	FO-BGA 045	0,45 mm
FO-BGA 040 PB FREE	0,4 mm	FO-BGA 050	0,5 mm
FO-BGA 045 PB FREE	0,45 mm	FO-BGA 055	0,55 mm
FO-BGA 050 PB FREE	0,5 mm	FO-BGA 060	0,6 mm
FO-BGA 055 PB FREE	0,55 mm	FO-BGA 064	0,64 mm
FO-BGA 060 PB FREE	0,6 mm	FO-BGA 065	0,65 mm
FO-BGA 065 PB FREE	0,65 mm	FO-BGA 076	0,76 mm
FO-BGA 076 PB FREE	0,76 mm		
FO-BGA 064 PB FREE	0,64 mm		

NOTES SECTION

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COMPREHENSIVE SUPPORT IN AUTHORIZATION OF PRODUCTION PROCESSES

Renex Line is a branch of Renex that supplies and installs complete production lines. The department is staffed with highly specialized team of engineers, constructors and programmers.

We automate production lines and integrate robots into production lines. We ensure the highest standard of technological solutions in machines and equipment we supply.



Detailed offer and more information about the company can be found on our website:



MANUFACTURING EQUIPMENT

The RENEX offer includes equipment for component assembly in SMT and THT technologies. Lines are supplemented with inspection equipment and top quality accessories and supplies.

TECHNOLOGY CENTER / DEMO ROOM

Our demo room contains fully equipped manufacturing and repair lines. We provide the opportunity to see the equipment in operation, simulate the process and carry out tests and sample batches.



TECHNICAL ADVISORS

Comprehensive support in the implementation of manufacturing processes.



TRAININGS

We offer trainings on component assembly in compliance with IPC | PACE | ESA standards.



WARRANTY SERVICE

We provide maintenance services during and after the warranty period.

OUR TEAM

The Renex Line team has many years of experience and a team of qualified engineers who effectively take care of the technical state of the machines installed by us.

BUSINESS INFORMATION
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TECHNICAL INFORMATION
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T: + 48 601 731 134

DELIVERY AND INSTALLATION
OF COMPLETE
MANUFACTURING LINES

DEVELOPMENT OF
TECHNOLOGICAL PROCESSES
FOR ELECTRONICS ASSEMBLY

OPTIMISATION
OF MANUFACTURING
PROCESSES



NEODEN 4C SMD PICK & PLACE MACHINE



ND-NEODEN4C

DESCRIPTION

- Transport system designed for handling large PCBs
- Performance: 10,000 CPH (according to IPC 9850)
- Supported components: 0201 – 35 x 35 mm
- Safety lock system triggered when the cover is opened

PLACEMENT HEADS	4
PLACEMENT SPEED	Max. 10 000 cph (without vision)
TAPE FEEDER	48 x 8 mm
VIBRATION STICK FEEDER	2x SOP8, 1x SOP14, 2x SOP16
JEDEC TRAY	Maks. 1
COMPONENT SIZES	0201 up to TQFP240 (35x35 mm), max. height 5 mm
RESOLUTION	XY-axis 0,01 mm, Z-axis 0,1 mm
ROTATION	360°
POSITIONING ACCURACY	+/- 0,02 mm
XY-REPEATABILITY	+/- 0,02 mm
MAX. PCB SIZE	310 x 1500 mm
MAX. PLACEMENT AREA	140 x 1500 mm (with JEDEC tray)
POWER SUPPLY	230 V/180 W
DIMENSIONS	870 x 680 x 480 mm (packaging dimensions 940 x 740 x 600 mm)
WEIGHT	60 kg

NEODEN K1830 PICK AND PLACE MACHINE



ND-NEODEN-K1830

DESCRIPTION

- Neoden K1830 is the latest developed, low volume, high-speed pick and place machine
- The machine runs on a highly stable and secure Linux operating system
- Dual camera system for faster position recognition
- High resolution and high-speed camera system for component recognition
- Internal ethernet communication interface for higher stability and flexibility
- Closed-loop servo control system for higher accuracy and repeatability
- Automatic feeder position calibration for higher efficiency
- Automatic pcb position calibration for higher efficiency

PLACEMENT HEADS	8
MAX. PCB SIZE	540 x 300 mm (in a single step)
SMALLEST COMPONENT SIZE	0201
MAX. PLACEMENT SPEED	16,000 cph
DIMENSIONS WEIGHT	1288 x 1062 x 1291 mm 280 kg



NEODEN YY1 SMD AUTOMATIC PICK & PLACE SYSTEM



ND-NEODEN-YY1

DESCRIPTION

- Neoden YY1 table-top pick & place system is the smallest and affordable tool for education and engineering.
- It features a dual nozzle system that can place a variety of components, including 0201 and 0402 components.
- It is fully equipped with a variety of features that make it easy to use and maintain, such as a user-friendly interface and automatic calibration.
- There is no need for additional accessories as everything you need is included.
- The interface consists of touchscreen operated software and is specially designed for students and first-time users

SUPPORTED FEEDERS

- Tape-Feeders 41x8 mm, 6x12 mm, 3x16 mm
- Stick-Feeder 4 positions
- Bulk-Feeder 3x10 positions
- Strip-Feeder 3x8 mm, 1x12 mm, 1x16 mm

PLACEMENT HEADS	2
MAX. PCB DIMENSIONS	220x 300 mm
SUPPORTED COMPONENTS	0201 - 18x18 mm
PLACEMENT RATE	4,000 cph
PLACEMENT ACCURACY	± 0,02 mm
X-Y REPEATABILITY	± 0,02 mm

QUADRA DVC EVO SMD AUTO PICK & PLACE SYSTEM



TWS-UXOPPDVCE1

DESCRIPTION

- The Quadra DVC EVO SMD auto pick & place system is a professional-grade industrial machine designed to meet the demands of companies seeking high reliability, precision, and flexible configuration in SMD assembly
- Maximum 120 feeders 8mm
- 15 BankFeeder
- 8 feeders each
- Maximum stacking size: from 0201 to 50x50mm (BGA)
- Soldering paste dispenser - option

SUPPORTED COMPONENTS

- CHIP from 0201
- MELF and MINI MELF
- diodes
- SOT
- integrated circuits up to 40mm
- trimmers
- inductors and aluminum electrolytic capacitors

PLACEMENT HEADS	2
WORK AREA	440 x 360 mm (550 x 420 mm - optional)
MAXIMUM STACKING SIZE	from 0201 to 50x50mm (BGA)
CAPACITY	up to 4400 CPH
RESOLUTION: FOR X / Y AXIS	- 0,01



YAMAHA YRM10 SMD PLACEMENT MACHINE



YA-YRM10

DESCRIPTION

- A compact machine equipped with advanced systems from the YRM series
- Top performance with modular design
- Meets the demands of a wide range of production processes
- Supports various PCB sizes with a single head, achieving high productivity
- Detects component posture abnormalities before placement
- Ensures stable component pickup and mounting

SUPPORTED PCB SIZES	50 x 50 – 510 x 460 mm (option: length up to 950 mm)
SUPPORTED COMPONENTS	0201 mm do 100 x 55 mm
PLACEMENT SPEED (UNDER OPTIMAL CONDITIONS)	52000 CPH
PLACEMENT ACCURACY (UNDER OPTIMAL CONDITIONS)	± 0.035 mm Cpk ≥ 1.0
FEEDER CAPACITY	up to 96 slots (for 8 mm tapes) / 15 trays (requires sATS15R)
EXTERNAL DIMENSIONS	1254 x 1440 x 1445 mm

YAMAHA YRM20 SMD PLACEMENT MACHINE



YA-YRM20

DESCRIPTION

- A versatile machine offering both high speed and flexibility
- Top-tier performance with modular design
- Meets the demands of a wide range of production processes
- Can be equipped with RM rotary heads for maximum efficiency and fine-pitch component handling
- Vision system further enhances assembly quality

HEAD TYPE	RM HEADS	HM HEADS	FM HEADS
SUPPORTED PCB SIZES	1 head: 50 x 50 – 510 x 510 mm (optional: 50 x 50 – 810 x 510 mm) 2 heads, 1 lane: 50 x 50 – 810 x 510 mm 2 heads, 2 lanes: 50 x 50 – 380 x 510 mm		
SUPPORTED COMPONENTS	0201 mm do 12 x 12 mm	0201 mm do 55 x 100 mm	03015 mm do 55 x 100 mm
PLACEMENT SPEED (UNDER OPTIMAL CONDITIONS)	1 head: 57500CPH 2 heads: 115000CPH	1 head: 49000CPH 2 heads: 98000CPH	1 head: 17500CPH 2 heads: 35000CPH
PLACEMENT ACCURACY (UNDER OPTIMAL CONDITIONS)	± 0.025 mm Cpk ≥ 1.0		± 0.035 mm Cpk ≥ 1.0
FEEDER CAPACITY	Trolley system: up to 128 slots (for 8 mm tapes) Fixed plate: up to 128 slots (for 8 mm tapes) / 60 trays (requires eATS30 x2)		
EXTERNAL DIMENSIONS	1374 x 1948 x 1445 mm		



DDM NOVASTAR GF-C2-HT BATCH REFLOW OVEN



AP-GF-C2

DESCRIPTION

- Small reflow oven providing a versatile heating system for lead-free preheating, curing, reflow, rework, and thermal cycling applications especially in prototype or batch applications
- Heavy-duty construction and stainless steel chamber
- Combination forced air convection/conduction heating system for consistent process control
- 19 mm thick aluminum heat plate
- Digital temperature controller precisely and automatically regulates temperatures
- Programmable digital timer with alarm

POWER SUPPLY	220 V - 240 V, 10 A
POWER CONSUMPTION	1800 W
MAX. PCB WIDTH	330 mm
DIMENSIONS	740 x 420 x 305 mm
MAX. TEMPERATURE	315°C
APPROXIMATE WEIGHT	25 kg

TWS 850 CHAMBER REFLOW OVEN



TWS-UTWS0850

DESCRIPTION

- Easy to use and high performance oven that allows for soldering in a very short time
- Electronic control system
- Wide range of heating profiles
- The main parameters of the oven can be continuously monitored on the LCD touch screen, always indicating the temperature setpoint for each heating phase and the actual temperature
- Forced air convection takes place in a horizontal circulation system thanks to a fan that blows air from inside to outside without moving the components from their original position. The heating temperature is monitored by a computer and a built - in sensor for the thermocouple „K“.

MAXIMUM PCB DIMENSIONS	330 x 240 mm
ZONES (HEATING + COOLING)	1
CLEARANCE	120 mm
MAX. TEMPERATURE	350°C



NEODEN IN6 REFLOW OVEN WITH STAND



ND-IN6

DESCRIPTION

- The IN6 offers great process control
- The additional thermocouple enables you to optimize the reflow profile suitable for every project
- Full colour touch - screen
- Graphic screen display shows the process real - time
- Intelligent heat control for stability and no overshoot
- Start - up time within 15 minutes
- Unique aluminum heaters for uniformly distributed energy
- Additional thermocouple for profiling and optimization

HEATING ZONES	3 top	3 bottom
COOLING ZONES	1	
CONVEYOR BELT SPEED	15 - 60 cp/min	
TEMPERATURE RANGE	From ambient temperature to 300°C	
PROCESS CHAMBER LENGTH	690 mm	
SOLDERING CONVEYOR WIDTH	257 mm	
MAX. CLEARANCE HEIGHT	28 mm	
POWER SUPPLY	120V 15A	
MAX. POWER	1800 W	
SYSTEM WEIGHT	49 kg	
SYSTEM DIMENSIONS	1020 x 507 x 350 mm	

NEODEN IN12C REFLOW OVEN WITH EDGE HOLD



ND-IN12C

DESCRIPTION

- Innovative NeoDen IN12 in - line reflow oven
- Offers full process control
- Full - color touchscreen display
- Graphic display shows the process in real time
- Intelligent heat control for stability and no downtime
- Start - up within 30 minutes
- 6 heating zones and 1 cooling zone

HEATING ZONES	6 top	6 bottom
COOLING ZONES	1	
CONVEYOR BELT SPEED	50 - 600 mm/min	
TEMPERATURE RANGE	Ambient to 300°C	
PROCESS CHAMBER LENGTH	1354 mm	
SOLDERING CONVEYOR WIDTH	350 mm	
MAX. CLEARANCE HEIGHT	35 mm	
POWER SUPPLY	220V / 380V	
MAX. POWER	4,8 kW	
SYSTEM WEIGHT	300 kg	
SYSTEM DIMENSIONS	2300 x 650 x 1280 mm	



TWS AUTOMATION 1150 EVO REFLOW OVEN



TWS-UTWS1150E

DESCRIPTION

- 2 heating zones and one cooling zone
- Rated power 5kW / 9kW power input
- Touch - screen, easy - to - read LCD display
- K - type thermocouples placed in each zone furnace
- Mesh transport

POWER SUPPLY	380 V	
AVERAGE ENERGY CONSUMPTION	5 kW	
MAX. TEMPERATURE SETTINGS	Zone 1: 300°C	Zone 2: 350°C
BOARD WIDTH	0 – 400 mm	
CONVEYOR SPEED	100 – 500 mm/min	
TUNNEL LENGTH	200 cm	
ENTRY HEIGHT	34 mm	
DIMENSIONS	203 x 85 x 62 cm (125 cm with base)	
WEIGHT	200 kg	

TWS AUTOMATION 1385 EVO REFLOW OVEN



TWS-1385 EVO

DESCRIPTION

- 4 heating zones and one cooling zone
- Rated power 5kW / Absorbed power 5kW
- Touch, easy - to - read LCD display
- K - type thermocouples located in each oven zone
- 2 types of transport: edge with central support and mesh

OPTIONAL EQUIPMENT

- Additional edge conveyor with central support
- Application for SMEMA-standard communication, enabling integration into a production line

POWER SUPPLY	380V/220V	
ENERGY CONSUMPTION	5 kW	
TUNNEL LENGTH	200 cm	
DIMENSIONS	3110 x 880 x 600 mm	
WEIGHT	280 kg	



HELLER REFLOW OVENS - MARK 7 SERIES

- The Heller MK7 reflow oven is a pioneering reflow system with several breakthrough designs that meets all customer requirements for lower Delta T on the PCB, reduced nitrogen consumption and product setup time, in a new low-profile enclosure that facilitates visibility across the production floor. The MK7 series is highly configurable, operating with an air chamber as standard, and with nitrogen and vacuum chamber options.
- **HEATING SYSTEM:**
An improved low-profile, large-rotor heating module provides the lowest delta T in the product, as well as improved airflow and temperature uniformity
- **COOLING SYSTEM:**
Various types of modules and systems are available to suit applications, including the most demanding lead-free profiles. A special cooling option is available for heavy-duty applications that can provide cooling rates $>6^{\circ}\text{C/s}$ and output temperatures below 50°C .
- **TRANSPORT MODULE:**
High parallelism and low vibration. Single-lane and dual-lane configurations available, with center board support or mesh belt options.
- **FLUX MANAGEMENT SYSTEM OPTION:**
A revolutionary, eco-friendly flux management system using a catalyst that produces no by-products and allows flux to be removed during reflow soldering furnace operation, eliminating the risk of flux blockage.
- **PROCESS MONITORING SYSTEM OPTION:**
Developed in collaboration with KIC, the solution offers the ability to instantly obtain temperature profile parameters once basic data such as package length, width and weight are entered into the system. The optimal profile will be selected from the database of an extensive library of profiles and solder pastes with a dynamic structure

HELLER 1707 MK7 REFLOW OVEN



HE-1707MK7

HELLER 1809 MK 7 REFLOW OVEN



HE-1809MK7

MODEL	1707 MK7	1809 MK7
CATALOGUE NUMBER	HE-1707MK7	HE-1809MK7
OVEN LENGTH	3600 mm	4650 mm
HEATING TUNNEL LENGTH	1900 mm	2560 mm
NUMBER OF HEATING ZONES	7 (top/bottom)	9 (top/bottom)
NUMBER OF COOLING ZONES	1	2
TEMPERATURE RANGE	60 - 350°C (option: 400°C)	60 - 350°C (option: 400°C)
TEMPERATURE STABILIZATION	$\pm 1^{\circ}\text{C}$	$\pm 1^{\circ}\text{C}$
EDGE TRANSPORT	Standard	Standard



HELLER 1826 MK7 REFLOW OVEN



HE-1826MK7

HELLER 1913 MK 7 REFLOW OVEN



HE-1913MK7

HELLER 1936 MK 7 REFLOW OVEN



HE-1936MK7

HELLER 2043 MK 7 REFLOW OVEN



HE-2043MK7

MODEL	1826 MK 7	1913 MK 7	1936 MK 7	2043 MK 7
CATALOGUE NUMBER	HE-1826MK7	HE-1913MK7	HE-1936MK7	HE-2043MK7
OVEN LENGTH	4650 mm	5900 mm	5900 mm	6780 mm
HEATING TUNNEL LENGTH	2710 mm	3550 mm	3600 mm	4390 mm
NUMBER OF HEATING ZONES	8 (top/bottom)	13 (top/bottom)	10 (top/bottom)	13 (top/bottom)
NUMBER OF COOLING ZONES	2	3	3	3
TEMPERATURE RANGE	60 - 350°C (option: 400°C)	60 - 350°C (option: 400°C)	60 - 350°C (option: 400°C)	60 - 350°C (option: 400°C)
TEMPERATURE STABILIZATION	±1°C	±1°C	±1°C	±1°C
EDGE TRANSPORT	Standard	Standard	Standard	Standard

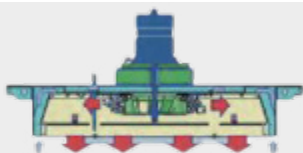
SUPERIOR THERMAL PERFORMANCE FOR HEATING AND COOLING

The New MK7 platform has revolutionized the reflow industry with several new and groundbreaking designs. The longer reflow process provides lower DeltaT from the beginning to the end of the heating zones and gentler cooling options offer exceptional capability and reduce overall PTH times.

New cooling systems offer fast in-case response rates and more uniformity while providing exceptional heat removal and temperature control.

NEW HEATING SYSTEM

Enhanced low height heater module and large airflow heater provide stable ΔT on product with improved air flow and uniformity.



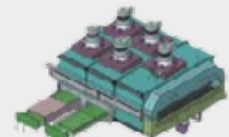
Heating module

NEW COOLING SYSTEM

A variety of module types and systems are available, including a water cooling type, which has achieved energy savings of more than 50% as compared to conventional cooling systems. Enhanced cooling performance allows stable and even temperature below 60°C.



Air type cooling module



Water type cooling module

**HELLER VCO-755-350 VERTICAL OVEN****DESCRIPTION**

- The Heller vertical curing oven is designed for curing processes such as epoxies, underfills, and Chip-on-Board encapsulation.
- Its vertical configuration saves valuable floor space while maintaining stable temperature profiles.
- Improved process consistency is achieved through forced convection heating and in-line operation, resulting in higher product quality.

ADVANTAGES

- Increased productivity – Continuous in-line processing with automation ensures maximum throughput.
- Better product quality – Stable and consistent thermal profiles enable superior process control.
- Lower costs – The vertical format requires less expensive floor space.

MODEL	VCO-755-350
CAT. NO.	HE-VCO-755-350
DIMENSIONS	1900 x 1620 x 2400 - 2500 x 1800 x 2000 mm
NUMBER OF HEATING ZONES	4-6
MAXIMUM ZONE TEMPERATURE	180 - 250°C
NUMBER OF SHELVES	18 top/bottom – 54 top/bottom
MAX. LOAD CAPACITY	36 - 108
BOARD SIZE	do 450 x 400 mm
MINIMUM CYCLE TIME	12 sec.

HELLER PCO 520 PRESSURE CURING OVEN

HE-PCO-520

DESCRIPTION

- The ****Pressure Curing Oven (PCO)**** is used to minimize voids and enhance bond durability in adhesive processes commonly found in die attach and underfill applications.
- It is well-suited for curing applications with low void tolerance requirements.
- Productivity is increased by using both pressure and vacuum (optional) to reduce overall cycle time.



VACUUM

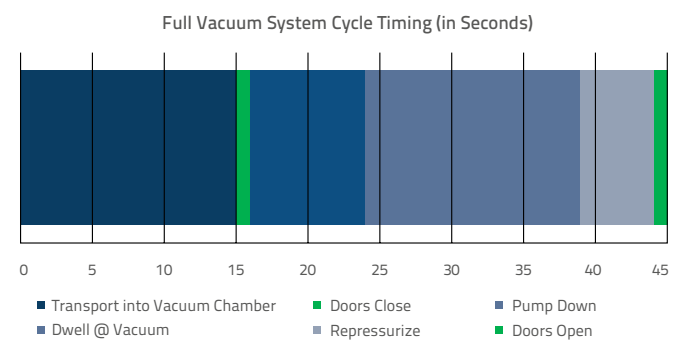
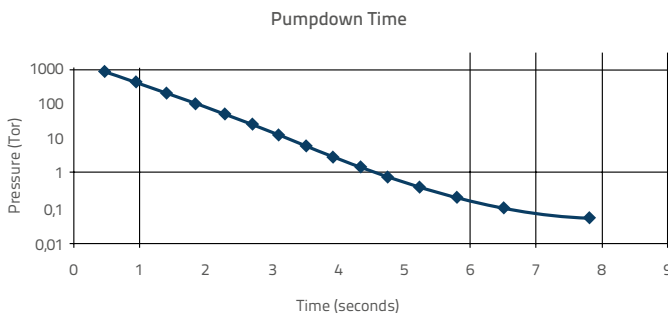
HELLER Industries has developed a vacuum module that inserts directly in its reflow oven line to meet new rising demand of high volume, void-free, automated inline soldering.

Vacuum module can be inserted in zone directly after reflow peak (liquidus) has occurred or an IR Panel can be added to the chamber to reach reflow peak under vacuum.

Convection reflow with vacuum module is continuous and allows thermal profiles to be directly ported from non-vacuum reflow applications to achieve low COO and high UPH.

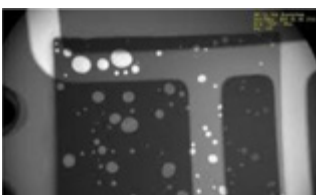


- HELLER Industries utilizes advanced pumping package with high capacity for fast pump down time.
- HELLER Industries provides optimized cycle (average 30s-60s) to achieve super high UPH.



- Reflow time under vacuum of 15 seconds was able to achieve <1% total void area spec.

Solder joint made without using the vacuum module

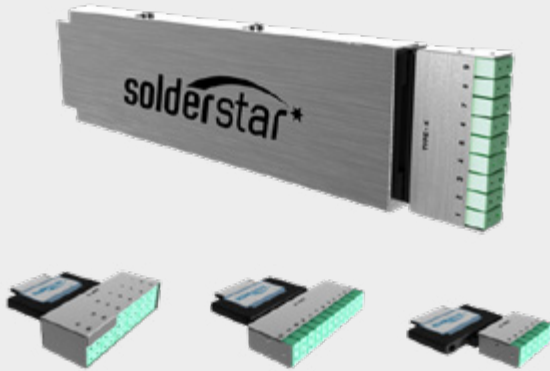


Solder joint made using the vacuum module (vacuum range: 5 Torr / 30 sec.)



- Heller vacuum assisted reflow applies multi-zones to meet various thermal profile requirements.
- Heller adopts high efficient flux collection system to collect the flux and keep tunnel clean. On-the-fly maintenance is available.
- Chamber exhaust foreline, ball valve, butterfly valve and dry vacuum pump are heated to 150°C to eliminate flux condensation.

MODEL	1826MK5	1936MK5
DIMENSIONS	465 x 150 x 164 cm	589 x 150 x 164 cm
POWER SUPPLY	380 VAC Option: 208/240/400/415/480 VAC	80 VAC Option: 208/240/400/415/480 VAC
PROCESS GASSES	N2 Option: Formic Acid	N2 Option: Formic Acid
HEATING ZONES	Convection Heating Top 8 + Bottom 6	Convection Heating Top 10 + Bottom 8
COOLING ZONES	2 Option: Bottom	3 Option: Bottom
MIN. VACUUM LEVEL	Standard: < 10 Torr Option: 1 Torr	Standard: < 10 Torr Option: 1 Torr
MAX. WORKING TEMPERATURE	Standard: 350°C Option: 400°C/450°C	Standard: 350°C Option: 400°C/450°C
MAX. PRODUCT HEIGHT	35 mm Option: 60 mm	35 mm Option: 60 mm

**SOLDERSTAR PRO**

6-Channel Version

SS-R-0625-SLX**OPTIONAL EQUIPMENT**

- AUTOSseeker Profiler Optimisation software
- 2,4 Ghz Wireless Telemetry
- Deltaprobe Oven Verification fixture
- Adjustable Reflow Carrier

DIMENSIONS	125 x 52 x 9 mm
WEIGHT	110 g
CHANNELS	4, 6, 9, 12 or 16 Channel Versions Available
MEMORY	120,000 Memory Points
SAMPLING	0,1 s - 10 min
MEASUREMENT RANGE	-150 to 600°C
ACCURACY	±0,5°C
RESOLUTION	±0,02°C
MAX. INTERNAL TEMPERATURE	+85°C (Auto Shutdown on over temp.)
POWER SUPPLY	Rechargeable High Temperature Nimh
COMMUNICATIONS	USB (Type A - Mini B) or 2.4Ghz Wireless
THERMOCOUPLES	Typ K, EN 05842:1993 Class 1 / ANSI MC 96.1

HEATSHIELD

- Material: Stainless Steel
- Dimensions (LxWxH):

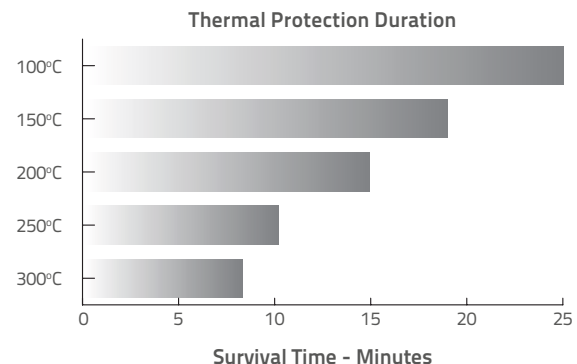
4/6/9 Channel Version: 310 x 80 x 25 mm
 12 Channel Version: 310 x 104 x 25 mm
 16 Channel Version: 330 x 146 x 25 mm

OTHER HEATSHIELD SIZES ARE AVAILABLE ON REQUEST**DESCRIPTION**

- Thermocouple Adapters available in 4, 6, 9, 12 or 16 versions
- The package includes an ultra compact datalogger featuring the unique 'SmartLink' connector system, combined with a heatshield and thermocouple adapter to provide the number of measurement channels required
- Future upgrading or servicing is a simple and cost effective procedure, with only the Thermocouple Adapter needing to be changed to allow 6, 9, 12 or 16 Type-K measurement versions
- The 'SmartLink' concept allows high measurement channel configurations, while maintaining a small footprint and quick connection to a range of accessories for capture of profile and SPC information from reflow, wave/selective and vapour phase soldering processes
- A comprehensive suite of software includes profile analysis, data management, profile simulations and integrated SPC charting tools. This easy to use system is ideal for manufacturers and EMS providers who require rapid profile setup followed by periodic measurements to control their solder process quality

STANDARD EQUIPMENT

- SolderStar PRO datalogger
- Thermocouple Adapter
- 25mm Lead Free capable heatshield
- Type K thermocouples
- PC Analysis software
- Hard copy manual + 1 Year calibration certificate
- Equipment case





SOLDERSTAR REFLOW SHUTTLE SLX FULL PROCESS MEASUREMENT SYSTEM



SS-RS-350-395-SLX

DESCRIPTION

Process measurement shuttles provide the platform for advanced and repeatable machine verification, each shuttle features the Smartlink system to quickly connect your SLX datalogger. Advanced parameters such as conveyor vibration, reflow vacuum level and oxygen PPM are measured alongside standard temperature profiles

TEMPERATURE PROFILE PERFORMANCE

The reflow shuttle is fitted with an array of sensors for independent measurement of advanced process parameters required for modern reflow soldering applications. Temperature profile verification is achieved with an array of type - K sensors arranged to measure top and bottom heater performance. At the front of the shuttle are matched temperature sensors which provide information regarding uniformity of heating across the width of the heated zone

PROCESS VIBRATION MEASUREMENT

Process vibration measurement is a requirement for many manufacturers, to establish a baseline of acceptable levels in all 3 - axis within the machine. Data captured can allow the engineer to see the effect of fan speed settings on vibration/harmonics in the process, along with detection of changes in vibration levels due to issues with the machine conveyor or extraction system.



OPTIONS

PROCESS VACUUM MEASUREMENT - Where a vacuum stage is added to the reflow process, an optional measurement module is fitted to the reflow shuttle allowing verification of vacuum levels down to 10 mbar. Vacuum profiles are captured and displayed as an overlay with the PCB temperature profile. Hold time below a desired level vacuum level, pull down and release rates are calculated - essential for ensuring that component shift does not occur.

O2 MEASUREMENT MODULE - The new O2 Reflow Shuttle provides zone by zone analysis of oxygen levels throughout the reflow process. Issues with nitrogen leakage throughout the oven are pin - pointed as the device captures and displays the oxygen PPM level alongside the oven zone diagram and temperature profile.

MATERIAL	Ricocel ES - 3261A Titanium side rails
THERMOCOUPLES	Type K, EN 05842:1993, Class 1 / ANSI MC 96.1
VIBRATION SENSOR	3 - Axis, Standard range +/- 2g @12Hz , measurement sensitivity 0.244mg
VACUUM SENSOR (OPTION)	10 to 1200 mbar ±1.5mbar (7.5 - 900 Torr ±1.125Torr)
OXYGEN SENSOR (OPTION)	Range: 2000 to 20 ppm Resolution: ± 0.5ppm Accuracy: ± 5% FS
SIZE (LXWXH)	Single Lane : 350mm (W) x 395mm (L)

**SOLDERSTAR WAVESHUTTLE SLX PRO SYSTEM**

SS-W-1004-SLX

DESCRIPTION

- WaveShuttle SLX Pro is an intelligent measuring device that controls all key parameters of the wave soldering process
- Thermocouples are connected to titanium contact sensors, enabling full measurement of the wave soldering process
- High quality 10 mm thick pallet provides a solid platform for both initial configuration as well as for regular process monitoring and evaluation
- Lower titanium contact sensors ensure the highest accuracy in measuring the parameters of the main wave and chip - type wave height
- Custom sensor widths and positions are available for fixed line production widths or special applications
- Connectivity via standard USB cables or 2.4 GHz wireless telemetry

WAVESHUTTLE SLX SELECTIVE SYSTEM

SS-W-1006-SLX

DESCRIPTION

- WaveShuttle PRO High Performance Wave Solder Analyser extends the use of a SolderStar PRO Reflow system for use on the wave solder machine
- It is compatible with R-0625P, R-0925P, R-1225P and R-1625P
- The datalogger from the reflow system is connected to the pallet to measure all key parameters including wave height in a single pass

SOLDERSTAR WIRELESS TELEMETRY KIT

SS-AC-RFMOD

DESCRIPTION

- Option of wireless access to all data logger configurations and real - time profile browsing on your computer
- Possible download of data stored in memory
- Battery charge status and data recorder temperature are transferred to the computer during its operation, which allows quick detection and avoidance of costly problems
- The system uses the innovative, self - healing Zigbee connection system, thanks to which the transferred data will never be lost, and the long transmission range can be obtained thanks to additional amplifiers

DELTA PROBE PROBE

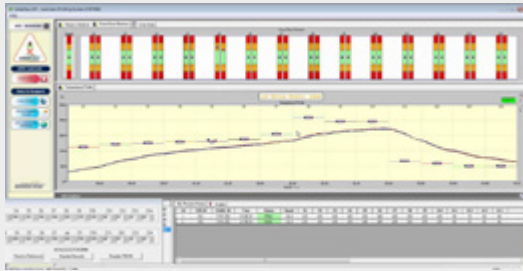
SS-AC-DP-001

DESCRIPTION

- DELTAPROBE probe is a tool that monitors the operation of a reflow oven, compatible with 6, 9, 12 and 16 channel loggers
- The data logger is part of the DeltaProbe probe, creating a convenient and efficient device for testing repeatability in a reflow oven
- The ideal process profile is captured by the sensors and then used to perform periodic comparisons, without the need for delicate test boards



AUTOSEEKER PROFILE OPTIMISATION SOFTWARE



SS-AC-SWAUTO

DESCRIPTION

- Software module allows profiles to be optimised automatically
- A profile is first captured from a test PCB, the Autoseeker can search for the optimal set points for the oven
- Profiles can be solved to give the absolute optimum, faster throughput or use less energy

MEASUREMENT RANGE	-150 do 500°C
ACCURACY	+/- 1°C
MAXIMUM SAMPLING FREQUENCY	1 per second
COMMUNICATIONS/POWER	USB
CONVEYOR SPEED	+/- 1%

TWS AUTOMATION RT-04 TEMPERATURE PROFILER



TWS-URT04

DESCRIPTION

- RT04 is a 4-channel temperature recorder
- A must-have accessory for fine-tuning the SMT soldering process
- It enables the user to improve the setting of the oven parameters, to optimise production and to check the soldering process quality, by just looking at the temperature vs. time graph
- The device uses four K-type Ni-Cr-Ni micro thermocouples to obtain accurate measurements and high-speed responses
- It is packed in a hard-box including all the necessary to start recording operation

BOX INCLUDES

- 8 type K thermocouples (4 pcs. 0,5 m length, 4 pcs. 3 m length)
- USB cable
- USB pen
- Kapton tape
- Protective shield
- Heat transfer silicone compound

PROFILER	4-channel
WORKING RANGE	0 - 500°C
INPUT	4 type K thermocouples
RESOLUTION	0,1°C
DIMENSIONS	120 x 83 x 13 mm
WEIGHT	350 g

**DDM NOVASTAR SPARTAN 8D/8S WAVE SOLDERING MACHINE****DESCRIPTION**

- Compact benchtop soldering unit with optional base
- An economical and efficient solution
- Built - in control computer
- Soldering in a combined and through - hole technology
- Recommended for small and medium scale production
- Working with lead - free and leaded materials
- Microprocessor control: programming and saving of profiles, reporting of process errors, internal and external device operation accounts, user authorization
- Single (8S) and dual (8D) wave capability

STANDARD EQUIPMENT

- Wave soldering device
- Built - in control computer
- Compressor
- Dual forced - air heating
- Wave and flux sensors
- Collecting of binder excess
- RS - 232 interface

OPTIONAL EQUIPMENT

- Working with unleaded binders
- Base
- Air knife for collecting excess flux
- Additional pallets
- Extended pallets
- Soldering in nitrogen shielding



MODEL	AP-SP8D-HT	AP-SP8S-HT
MAKS.WYMIARY PCB	300 x 400 mm	
MAX. WAVE HEIGHT	0 - 10 mm	
MAX. WAVE WIDTH	203 mm	
MAX. PREHEAT TEMP.	170°C Preheat 1 220°C Preheat 2	
POWER OF FIRST SECOND HEATER	2,25 kW 1,5 kW	
MAX. SOLDERING TEMPERATURE	300°C	
MAX. LEAD-FREE SOLDERING TEMPERATURE	350°C	
HEATING TIME	40 min.	
MAX. TRANSPORT SPEED	2 m/min	
VENTILATION CAPACITY	500 m ³ /h Flange diameter: 100 mm	
LOAD CAPACITY	90 kg	57 kg
SOLDER POT POWER	3,2 kW	2,5 kW
FOAM FLUXER TANK	2 l	



DDM NOVASTAR SPARTAN 12S WAVE SOLDERING MACHINE



DESCRIPTION

- Compact benchtop soldering unit with optional base
- An economical and efficient solution
- Built - in control computer
- Soldering in a combined and through - hole technology
- Recommended for small and medium scale production
- Working with lead - free and leaded materials
- Microprocessor control: programming and saving of profiles, reporting of process errors, internal and external device operation accounts, user authorization
- Single (12S) and dual (12D) wave capability

STANDARD EQUIPMENT

- Built - in control computer
- Compressor
- Dual forced - air heating
- Wave and flux sensors
- Collecting of binder excess
- RS - 232 interface

OPTIONAL EQUIPMENT

- Working with unleaded binders
- Base
- Air knife for collecting excess flux
- Additional pallets
- Extended pallets
- Soldering in nitrogen shielding



CATALOG NUMBER	AP-SP12S-HT	AP-SP12D-HT
MAX. PCB DIMENSIONS	300 x 400 mm	
MAX. WAVE HEIGHT	0 - 10 mm	
MAX. WAVE LENGTH	300 mm	
MAX. PREHEATING TEMPERATURE	170°C Heater 1 220°C Heater 2	
POWER OF FIRST SECOND PREHEATER	4 kW 2 kW	
MAX. SOLDERING TEMPERATURE	300°C	
MAX. LEAD-FREE SOLDERING TEMPERATURE	350°C	
HEATING TIME	50 min.	
MAX. TRANSPORT SPEED	2 m/min	
VENTILATION CAPACITY	500 m³/h Flange diameter: 100 mm	
LOAD CAPACITY	114 kg	170 kg
SOLDER POT POWER	5.2 kW CHANGES	
FLUX TANK	3 l	



NEODEN FP2636 STENCIL PRINTER



ND-FP2636

DESCRIPTION

- The FP2636 Manual Solder Stencil Printer for Frameless Stencils is a simple way to apply solder to your PCBs every time
- Proper solder application is frequently overlooked as a critical step in the SMD process. Without careful control of the placement and thickness of the solder paste, the results of reflow soldering can be amateur at best, to nonfunctional at worst.
- The operation of the printer is simple. First, insert the frameless stencil (available at very low cost from most PCB manufacturing houses) into the printer. Then, place the PCB on the included locator fixtures. Using the Vernier controls, move the PCB fixture until the solder pads perfectly align with the holes. Finally, move the solder over the stencil with the squeegee blade (included)
- PCB Stabilizer Pin 1.0mm / 1.5mm / 2.0mm / 2.5mm / 3.0mm

MODEL	ND-FP2636	ND-FP2636F
DIMENSIONS	660 x 470 x 245 mm	
PCB DIMENSIONS MIN. / MAX.	10 x 5 mm 250 x 350 mm	10 x 5 mm 260 x 360 mm
PCB THICKNESS	0 - 20 mm	0,5 - 10 mm
STENCIL DIMENSIONS	260 x 360 mm	
MAX. ROTATION ANGLE	± 15°	
PRECISE XYZ-AXIS ADJUSTMENT RANGE	± 15 mm	

STENCIL PRINTER SR3200EVO



TWS-USR3200

DESCRIPTION

- New SR3200EVO stand alone fully automatic printer with fiducials automatic recognition and external loader/unloader pairing capability
- A new chassis grants improved features of stability and rigidity
- Can be coupled with LD100 automatic loading system to build an optimal solution to maximize printing throughput
- Printing mode is motor assisted (brushless motor) and fully programmable
- An easy - to - use software guides the operator during the whole process
- Compact design to save space, large printing area, first class specifications make this printer a product with an outstanding quality - price ratio

DIMENSIONS	110 x 126 x 135 mm
MAX. PRINT AREA	320 x 450 mm
MAX. FRAME SIZE	680 x 700 mm
PRINTING PROCESS	Automatic
PCB HOLDING	Side clamp
PCB TRANSPORT	Automatic (with LD100 support)
SPECIAL FEATURES	Stencil cleaning, 2D SPI



YAMAHA YRP10E AUTOMATIC SOLDER PASTE PRINTER



YA-YRP10E

DESCRIPTION

- Printer ensuring high-quality paste printing
- 3S head featuring excellent flexibility, compatible with various types of printed circuit boards
- Increased filling efficiency and extended stencil lifespan
- Stable print quality thanks to squeegee pressure adjustment, reducing print variations

OPTIONAL CONFIGURATION

- 2D inspection for detecting printing defects

APPLICABLE PCB SIZE	Single lane: L 510 x W 510 mm to L 50 x W 50 mm
PRINTING HEADS	3S (Swing Single Squeegee)
PRINTING ACCURACY	$\mu \pm 6 \sigma \pm 30 \mu\text{m}$ Cpk > 2,0
APPLICABLE STENCIL SIZE	750 x 750 mm 750 x 650 mm 736 x 736 mm 650 x 550 mm 600 x 550 mm 584 x 584 mm 550 x 650 mm
POWER SUPPLY	Single phase AC 200 to 230V $\pm 20\text{V}$

YAMAHA YRP10 HIGH SPEED, HIGH PRECISION SOLDER PASTE PRINTER



YA-YRP10

DESCRIPTION

- Ultra fast cycle time achieved by totally redesigning the drive system to optimize the movement layout and cut the board transfer time to attain a cycle time including stencil cleaning of 6 seconds at the world's fastest level (optimal in - house conditions; normal print time is 10 seconds), reaching a speed 20 % faster than conventional operation.
- Delivers both high quality & super - accurate printing, using the Yamaha's original 3S head, stencil vacuum mechanism, auto cleaning system and composite image alignment function.
- Supports fully autonomous stencil exchange with the optional configuration:

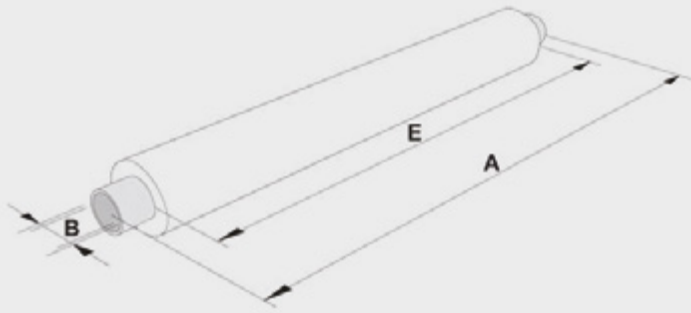
OPTIONAL CONFIGURATION

- Automatic stencil exchange
- Automatic solder transfer
- Automatic push up pin exchange

APPLICABLE PCB SIZE	Single lane: L 510 x W 510 mm to L 50 x W 50 mm Dual lane: L 420 x W 330 mm to L 50 x W 50 mm
PRINTING HEADS	3S (Swing Single Squeegee)
PRINTING ACCURACY	Positioning repeatability ($\pm 6 \sigma$): $\pm 8 \mu\text{m}$ Cp ≥ 2.0 Printing accuracy ($\mu \pm 6 \sigma$): $\pm 16 \mu\text{m}$ Cpk $\geq 2.0^*$
APPLICABLE STENCIL SIZE	L 750 x W 750 mm L 736 x W 736 mm (29") L 750 x W 650 mm L 650 x W 550 mm L 600 x W 550 mm L 550 x W 650 mm L 584 x W 584 mm (23")
POWER SUPPLY	Single phase AC 200 to 230V $\pm 20\text{V}$



DEC STENCIL CLEANING ROLL



DESCRIPTION

- Roll paper designed for solder paste printing machines. It enables effective removal of excess paste from PCBs, supporting process accuracy and assembly quality.
- The paper is made from a blend of 55% cellulose and 45% polyester, providing high resistance to chemicals and optimum absorbency, necessary for effective removal of excess solder paste.
- High absorbency and resistance to solder paste.
- Resistant to chemicals and solvents. Ideal for precise removal of excess paste from PCBs.
- Perfect for use in production environments where precise solder paste management is crucial to ensuring high soldering quality and electronic component reliability.

MATERIAL FOR DEC PRINTER		
CAT. NO.	DIMENSIONS (A x E x B)	MATERIAL LENGTH
RE-ROL-DEK-400	540 x 400 x 20 mm	9 m
RE-ROL-DEK-490	530 x 490 x 18 mm	
RE-ROL-DEK-515	530 x 515 x 18 mm	10 m
MATERIAL FOR PANASONIC PRINTER		
CAT. NO.	DIMENSIONS (A x E x B)	MATERIAL LENGTH
RE-ROL-PAN-370	375 x 370 x 18 mm	12 m

MATERIAL FOR MPM PRINTER		
CAT. NO.	DIMENSIONS (A x E x B)	MATERIAL LENGTH
RE-ROL-MPM-400	400 x 400 x 19,5 mm	9 m
MATERIAL FOR YAMAHA PRINTER		
CAT. NO.	DIMENSIONS (A x E x B)	MATERIAL LENGTH
RE-ROL-YA-440	440 x 440 x 23 mm	30 m
RE-ROL-YA-530	530 x 530 x 23 mm	

YAMAHA VP-01G-Y 3D SOLDER PASTE INSPECTION MACHINE



YA-VP-01G-Y

DESCRIPTION

- Single-head solder paste inspection solution
- High-accuracy high-speed inspections
- SPI function supports a vast range of analyses
- Achieves high-accuracy high-speed inspections using 3D + 2D inspection

INSPECTION SPEED	TWIN PROJECTOR	SINGLE PROJECTOR
RESOLUTION 25 (12.5) μM	8,900 (5,600) mm ² /s	9,400 (6,000) mm ² /s
RESOLUTION 20 (10) μM	5,700 (3,500) mm ² /s	6,000 (3,700) mm ² /s
RESOLUTION 15 (7.5) μM	3,200 (1,900) mm ² /s	3,300 (2,000) mm ² /s
ACCURACY VOLUME (3σ)	With in 2%	With in 3%
APPLICABLE PCB	50 x 50 mm - 510 x 510 mm	
HORIZONTAL RESOLUTION (FOV SIZE)	25 μm / 12.5 μm (~50 x 50 mm) 20 μm / 10 μm (~40 x 40 mm) 15 μm / 7.5 μm (~30 x 30 mm)	
HEIGHT RESOLUTION	1 μm	
EXTERNAL DIMENSION	938 x 1191 x 1480 mm	



YAMAHA YSI-SP 3D SOLDER PASTE INSPECTION MACHINE



YA-YSI-SP

DESCRIPTION

- 12Mpix inspection camera
- „1-head solution” to perform various inspections with a single head
- Achieves high-accuracy high-speed inspections using 3D+2D inspection, image resolution switch-over and more
- A thorough and extensive machine-to-machine (M2M) solution
- Statistical Process Control (SPC) for diverse statistical processing
- Optional features to enable handling various products

PCB SIZE	510 × 460 mm 50 × 50 mm
HORIZONTAL RESOLUTION (FOV)	25 μm / 12,5 μm (approximately 50 × 50 mm) 20 μm / 10 μm (approximately 40 × 40 mm) 15 μm / 7,5 μm (approximately 30 × 30 mm)
HEIGHT RESOLUTION	1 μm
INSPECTION ITEMS	Solder paste printing quality (volume, height, area and misalignment)
POWER SUPPLY	AC 200 V – 230 V ±10%
DIMENSIONS	904 × 1080 × 1478 mm
WEIGHT	550 kg

HIGH-END HYBRID OPTICAL INSPECTION SYSTEM (AOI) YSI-R



YA-YRI-V

DESCRIPTION

- Two or Three - dimensional inspection
- High inspection speed and high resolution
- Camera 12 mpix
- Height measurement
- Detection of direction and angle of inclination
- Four - way angle camera 20 mpix
- Minimising the stages of the inspection process
- Dimensions of PCB:
 - Single transport system 610 x 610 mm (750mm option)
 - Double transport system 2 x 610 x 320 mm (750mm option)
- Objects analysed: precision of the assembled elements, quality of the solders and elements after the oven heating process

ADVANTAGES

- The newly developed inspection head features lenses with resolutions of 12 μm and 7 μm, as well as a new 5 μm lens compatible with ultra-small 0201 components. The YRI-V is equipped with an entirely new lighting system with enhanced luminance, along with the industry's fastest high-resolution camera offering an increased frame rate. The use of a high-performance graphics processor enables faster image processing—nearly twice the speed of the current YSi-V TypeHS2 at 7 μm, and 1.6 times faster at 12 μm.
- Enhancements to the 3D projector have also enabled even more precise inspections: both measurement accuracy and range have been doubled compared to existing models. Highly precise measurements are now possible for component heights up to 25

mm. Moreover, the combination of the 5 μm lens and 8-directional 3D projector enables ultra-precise 3D inspections of 0201-sized components and ultra-fine-pitch ICs, providing high-resolution imaging without blind spots.

- The new coaxial lighting system in the inspection head improves detection of scratches, cracks, and chipping on mirror-like surfaces.
- Upgraded conveyors broaden the range of compatible PCB lengths. With optional equipment, flexible handling of longer boards—up to 1200 mm—is possible. In dual-lane configurations, improved adjustment of fixed positions for rails 2, 3, and 4 has enhanced integration capabilities with other equipment.



SINGLE MAGAZINE LOADER



DESCRIPTION

- FUJI button, or touch screen operation options available
- Four pitch selections 10, 20, 30, 40 mm (FUJI Button operation), multiple pitch selectable (touch screen operation)
- Direction from left to right, or right to left
- Possibility of loading 1 rack magazine, discharge from the rear of machine
- SMEMA compliant

CAT. NO.	RE-CM-ML-250A-ST/B	RE-CM-ML-330A-ST/B	RE-CM-ML-390A-ST/B	RE-CM-ML-460A-ST/B
POWER SUPPLY	230 VAC, 50/60 Hz			
AIR PRESSURE	6 bar			
PCB SIZE	350 x (50 - 250) mm	460 x (50 - 330) mm	535 x (50 - 390) mm	535 x (50 - 460) mm
TRANSFER HEIGHT	900 ± 20 mm or specify			
PCB DIRECTION	Option for left to right or right to left			
MAGAZINE RACK SIZE	350 x 320 x 563 mm	460 x 400 x 563 mm	535 x 460 x 570 mm	535 x 530 x 570 mm
PITCH	10, 20, 30, 40 mm or specify			
DIMENSIONS	1145 x 1030 x 1200 mm	1355 x 1120 x 1200 mm	1505 x 1310 x 1200 mm	1505 x 1450 x 1200 mm
CONTROL PANEL	Touch screen / FUJI button			

SINGLE MAGAZINE UNLOADER - DESCRIPTION



DESCRIPTION

- FUJI button, or touch screen operation options available
- Four pitch selections 10, 20, 30, 40 mm (FUJI Button operation), multiple pitch selectable (touch screen operation)
- Direction from left to right, or right to left
- Possibility of loading 1 rack magazine, discharge from the rear of machine
- SMEMA compliant

CAT. NO.	RE-CM-MU-250A-ST/B	RE-CM-MU-330A-ST/B	RE-CM-MU-390A-ST/B	RE-CM-MU-460A-ST/B
POWER SUPPLY	230 VAC, 50/60 Hz			
AIR PRESSURE	6 bar			
PCB SIZE	350 x (50 - 250) mm	460 x (50 - 330) mm	535 x (50 - 390) mm	535 x (50 - 460) mm
TRANSFER HEIGHT	900 ± 20 mm or specify			
PCB DIRECTION	Option for left to right or right to left			
MAGAZINE RACK SIZE	350 x 320 x 563 mm	460 x 400 x 563 mm	535 x 460 x 570 mm	535 x 530 x 570 mm
PITCH	10, 20, 30, 40 mm or specify			
DIMENSIONS	1120 x 1030 x 1200 mm	1305 x 1120 x 1200 mm	1480 x 1310 x 1200 mm	1480 x 1450 x 1200 mm
CONTROL PANEL	Touch screen / FUJI button			



MULTI MAGAZINE LOADER



DESCRIPTION

- FUJI button, or touch screen operation options available
- Four pitch selections 10, 20, 30, 40 mm (FUJI Button operation), multiple pitch selectable (touch screen operation)
- Direction from left to right, or right to left
- 3 magazine loading capacity
- SMEMA compliant

CAT. NO.	RE-CM-ML-250A-CT/B	RE-CM-ML-330A-CT/B	RE-CM-ML-390A-CT/B	RE-CM-ML-460A-CT/B
POWER SUPPLY	230 VAC, 50/60 Hz			
AIR PRESSURE	6 bar			
PCB SIZE	350 x (50 - 250) mm	460 x (50 - 330) mm	535 x (50 - 390) mm	535 x (50 - 460) mm
TRANSFER HEIGHT	900 ± 20 mm or specify			
PCB DIRECTION	Option for left to right or right to left			
MAGAZINE RACK SIZE	350 x 320 x 563 mm	460 x 400 x 563 mm	535 x 460 x 570 mm	535 x 530 x 570 mm
PITCH	10, 20, 30, 40 mm or specify			
DIMENSIONS	1365 x 745 x 1200 mm	1650 x 820 x 1200 mm	1825 x 880 x 1200 mm	1825 x 950 x 1200 mm
CONTROL PANEL	Touch screen / FUJI button			

MULTI MAGAZINE UNLOADER



DESCRIPTION

- FUJI button, or touch screen operation options available
- Four pitch selections 10, 20, 30, 40 mm (FUJI Button operation), multiple pitch selectable (touch screen operation)
- Direction from left to right, or right to left
- 3 magazine loading capacity
- SMEMA compliant

CAT. NO.	RE-CM-MU-250A-CT/B	RE-CM-MU-330A-CT/B	RE-CM-MU-390A-CT/B	RE-CM-MU-460A-CT/B
POWER SUPPLY	230 VAC, 50/60 Hz			
AIR PRESSURE	6 bar			
PCB SIZE	350 x (50 - 250) mm	460 x (50 - 330) mm	535 x (50 - 390) mm	535 x (50 - 460) mm
TRANSFER HEIGHT	900 ± 20 mm or specify			
PCB DIRECTION	Option for left to right or right to left			
MAGAZINE RACK SIZE	350 x 320 x 563 mm	460 x 400 x 563 mm	535 x 460 x 570 mm	535 x 530 x 570 mm
PITCH	10, 20, 30, 40 mm or specify			
DIMENSIONS	1685 x 745 x 1200 mm	1920 x 820 x 1200 mm	2165 x 880 x 1200 mm	2165 x 950 x 1200 mm
CONTROL PANEL	Touch screen / FUJI button			



PCB CONVEYOR



DESCRIPTION

- Metal frame
- Manual width adjusting system
- Electrical width adjustment optional
- Variable speed control
- Inspection and pass mode selectable
- Multi-section version available on request. (two-three sections)
- SMEMA compliant

CAT. NO.	RE-CM-C-50LD-M/L	RE-CM-C-60LD-L	RE-CM-C-100LD-M/L	RE-CM-C-100LJ-M/L
CONVEYOR LENGTH	500 mm	600 mm	1000 mm	1000 mm
POWER SUPPLY	230 VAC, 50/60 Hz			
PCB WIDTH	50 - 350 mm (-M), 50 - 460 mm (-L)			
TRANSFER SPEED	1 - 12 m/min regulated			
TRANSFER HEIGHT	900 ± 20 mm			
PCB DIRECTION	Option for left to right or right to left			
WORKING LIGHT			NONE	YES
DIMENSIONS	500 x 742 x 950 mm	600 x 742 x 950 mm	1000 x 650 x 900 mm	1000 x 650 x 900 mm

AOI REWORK CONVEYOR



DESCRIPTION

- Manual width adjusting system
- Electrical width adjustment optional
- Three belt segments, providing possibility to buffer one failed PCB
- SMEMA compliant

CAT. NO.	RE-CM-C-150LR-3-M	RE-CM-C-150LR-3-L
POWER SUPPLY	230 VAC, 50/60 Hz	
AIR PRESSURE	6 bar	
PCB WIDTH	50 - 350 mm	50 - 460 mm
TRANSFER HEIGHT	900 ± 20 mm	
PCB DIRECTION	Option for left to right or right to left	
DIMENSIONS	1500 x 760 x 1100 mm	1500 x 860 x 1100 mm



PCB NG/OK UNLOADER



DESCRIPTION

- Unloader with PCB sorting options
- Easily operated touchscreen controls
- Good and bad PCB's can be separated automatically to different magazine racks
- Multiple pitch selectable
- Direction from left to right, or right to left
- Loading capacity of 3 magazines per good and bad PCB's
- SMEMA compliant

CAT. NO.	RE-CM-UNG-250A-CT	RE-CM-UNG-330A-CT	RE-CM-UNG-390A-CT	RE-CM-UNG-460A-CT
POWER SUPPLY	230 VAC, 50/60 Hz			
AIR PRESSURE	6 bar			
PCB SIZE	350 x (50 - 250) mm	460 x (50 - 330) mm	535 x (50 - 390) mm	535 x (50 - 460) mm
TRANSFER HEIGHT	900 ± 20 mm or specify			
PCB DIRECTION	Option for left to right or right to left			
MAGAZINE RACK SIZE	350 x 320 x 563 mm	460 x 400 x 563 mm	535 x 460 x 570 mm	535 x 530 x 570 mm
PITCH	Multiple			
DIMENSIONS	1510 x 1460 x 1200 mm	1910 x 1630 x 1200 mm	2160 x 1760 x 1200 mm	2160 x 1900 x 1200 mm

MULTIFUNCTION PCB BUFFER



DESCRIPTION

- 3 operating modes:
 - FIFO (First In First Out),
 - LIFO (Last In First Out),
 - „Pass - through“
- 24 PCB's storage capacity
- Electrical width adjustment
- Direction from left to right or right to left
- SMEMA compliant

CAT. NO.	RE-CM-BL-350A-CT	RE-CM-BL-400A-CT	RE-CM-BL-460A-CT
POWER SUPPLY	230 VAC, 50/60 Hz		
AIR PRESSURE	6 bar		
PCB SIZE	400 x (50 - 350) mm	460 x (50 - 400) mm	535 x (50 - 460) mm
BUFFER CAPACITY	Max. 24 PCBs at pitch 1		
TRANSFER HEIGHT	900 ± 20 mm		
PCB DIRECTION	Option for left to right or right to left		
DIMENSIONS	500 x 885 x 1650 mm	610 x 935 x 1650 mm	610 x 995 x 1650 mm



PCB DESTACKER



DESCRIPTION

- Loader with single board feed from a stack
- Easy operation via a touch screen
- Pass mode selectable
- Automatic electrical width adjustment
- SMEMA compliant

CAT. NO.	RE-CM-DU-350A-CT	RE-CM-DU-460A-CT
POWER SUPPLY	230 VAC, 50/60 Hz	
AIR PRESSURE	6 bar	
PCB SIZE	460 x (50 - 350) mm	535 x (50 - 460) mm
TRANSFER HEIGHT	900 ± 20 mm	
PCB DIRECTION	Option for left to right or right to left	
DIMENSIONS	630 x 850 x 1250 mm	630 x 950 x 1250 mm

PCB PUSH-UP STACKER



DESCRIPTION

- Unloader with PCB stacking feature
- Easy operation via a touch screen
- Pass mode selectable
- Automatic electrical width adjustment
- SMEMA compliant

CAT. NO.	RE-CM-SU-350A-CT	RE-CM-SU-400A-CT	RE-CM-SU-460A-CT
POWER SUPPLY	230 VAC, 50/60 Hz		
AIR PRESSURE	6 bar		
PCB SIZE	460 x (50 - 350) mm	460 x (50 - 400) mm	535 x (50 - 460) mm
TRANSFER HEIGHT	900 ± 20 mm		
PCB DIRECTION	Option for left to right or right to left		
DIMENSIONS	630 x 850 x 1250 mm	630 x 900 x 1250 mm	630 x 950 x 1250 mm



VACUUM BARE BOARD LOADER



DESCRIPTION

- FUJI button, or touch screen operation options available
- Pass mode selectable
- Precise vacuum PCB pick-up system
- Flexible suction design, position adjustable
- Manual width adjusting system
- Electrical width adjustment available on request
- SMEMA compliant

CAT. NO.	RE-CM-SL-350A-CT/B	RE-CM-SL-400A-CT/B	RE-CM-SL-460A-CT/B
POWER SUPPLY	230 VAC, 50/60 Hz		
AIR PRESSURE	6 bar		
PCB SIZE	460 x (50 - 350) mm	460 x (50 - 400) mm	535 x (50 - 460) mm
TRANSFER HEIGHT	900 ± 20 mm		
PCB DIRECTION	Option for left to right or right to left		
DIMENSIONS	700 x 735 x 1250 mm	750 x 785 x 1250 mm	800 x 835 x 1250 mm
CONTROL PANEL	1. Touch screen, 2. FUJI button		

PCB TURN CONVEYOR



DESCRIPTION

- FUJI button, or touch screen operation options available
- Manual width adjusting system
- Electrical width adjustment available on request
- Controlled with a motor, rotates smoothly and accurately
- 90° turning option
- SMEMA compliant

CAT. NO.	RE-CM-TC-350A-CT/B	RE-CM-TC-400A-CT/B	RE-CM-TC-460A-CT/B
POWER SUPPLY	230 VAC, 50/60 Hz		
AIR PRESSURE	6 bar		
PCB SIZE	400 x (50 - 350) mm	460 x (50 - 400) mm	535 x (50 - 460) mm
TRANSFER HEIGHT	900 ± 20 mm		
PCB DIRECTION	Option for left to right or right to left		
TURN DIRECTION	90° clockwise or counterclockwise		
DIMENSIONS	700 x 700 x 1200 mm	750 x 750 x 1200 mm	800 x 800 x 1200 mm
CONTROL PANEL	1. Touch screen, 2. FUJI button		



PCB INVERTER



DESCRIPTION

- FUJI button, or touch screen operation options available
- Pass mode selectable
- Manual width adjusting system
- PCB inverting function
- Electrical width adjustment available on request
- SMEMA compliant

CAT. NO.	RE-CM-IC-350A-CT/B	RE-CM-IC-400A-CT/B	RE-CM-IC-460A-CT/B
POWER SUPPLY	230 VAC, 50/60 Hz		
AIR PRESSURE	6 bar		
PCB SIZE	400 x (50 - 350) mm	460 x (50 - 400) mm	535 x (50 - 460) mm
TRANSFER HEIGHT	900 ± 20 mm		
PCB DIRECTION	Option for left to right or right to left		
DIMENSIONS	500 x 800 x 1250 mm	550 x 850 x 1250 mm	600 x 900 x 1300 mm
CONTROL PANEL	1. Touch screen, 2. FUJI button		

TELESCOPIC GATE CONVEYOR



DESCRIPTION

- Conveyor with a telescopic gate passthrough
- FUJI button, or touch screen operation options available
- Electrical width adjustment available on request
- SMEMA compliant

CAT. NO.	RE-CM-TG-350A-CT/B	RE-CM-TG-400A-CT/B	RE-CM-TG-460A-CT/B	RE-CM-TG-460A-CT-L800
POWER SUPPLY	230 VAC, 50/60 Hz			
AIR PRESSURE	6 bar			
PCB SIZE	400 x (50 - 350) mm	460 x (50 - 400) mm	535 x (50 - 460) mm	800 x (50 - 460) mm
PASSAGE WIDTH	Max. 900 mm adjusted			
TRANSFER HEIGHT	900 ± 20 mm			
PCB DIRECTION	Option for left to right or right to left			
DIMENSIONS	(750 - 1700) x 740 x 1100 mm	(750 - 1700) x 790 x 1100 mm	(750 - 1700) x 840 x 1100 mm	
CONTROL PANEL	1. Touch screen, 2. FUJI button			



MANUAL LIFT GATE CONVEYOR



DESCRIPTION

- Actuator-assisted lifting
- Manual width adjusting system
- SMEMA compliant

CAT. NO.	RE-CM-GC-350A-CB	RE-CM-GC-460A-CB
POWER SUPPLY	230 VAC, 50/60 Hz	
AIR PRESSURE	6 bar	
PCB SIZE	460 x (50 - 350) mm	500 x (50 - 460) mm
PASSAGE WIDTH	600 mm	
TRANSFER HEIGHT	900 ± 20 mm	
PCB DIRECTION	Option for left to right or right to left	
DIMENSIONS	1000 x 650 x 1100 mm	1000 x 750 x 1100 mm

LOWERING GATE CONVEYOR



DESCRIPTION

- Actuator-assisted lifting and lowering (button controlled)
- Manual width adjusting system
- Electrical width adjustment available on request
- SMEMA compliant

CAT. NO.	RE-CM-GC-350L-CB	RE-CM-GC-460L-CB
POWER SUPPLY	230 VAC, 50/60 Hz	
AIR PRESSURE	6 bar	
PCB SIZE	460 x (50 - 350) mm	500 x (50 - 460) mm
PASSAGE WIDTH	500 mm	
TRANSFER HEIGHT	900 ± 20 mm	
PCB DIRECTION	Option for left to right or right to left	
DIMENSIONS	1300 x 550 x 1200 mm	1300 x 650 x 1200 mm



PCB TRAVERSER



DESCRIPTION

- Manual width adjusting system
- Electrical width adjustment available on request
- Pass mode selectable
- SMEMA compliant

CAT. NO.	RE-CM-SC-350A-CT	RE-CM-SC-460A-CT
POWER SUPPLY	230 VAC, 50/60 Hz	
AIR PRESSURE	6 bar	
PCB WIDTH	50 - 350 mm	50 - 460 mm
TRAVERSING LENGTH	Specified	
TRANSFER HEIGHT	900 ± 20 mm	
PCB DIRECTION	Option for left to right or right to left	
DIMENSIONS	According to traversing length	

SMT CONVOYER



RE-40X0

DESCRIPTION

- Top cover with hinges and safety switch
- Electric width adjustment
- Transport speed control
- Controlled by PLC and safety relay
- EC Declaration of Conformity

POWER SUPPLY	230 VAC 50 Hz 1 phase
PCB SIZE	(50 - 970) x (50 - 550) mm
STANDARD LENGTHS	600, 800, 1000 mm
TRANSFER HEIGHT	900 ± 20 mm
PCB DIRECTION	Left to right
CONVEYOR BELT SPEED	10m/s
DIMENSIONS	1010 x 610 x 930 mm

ADJUSTABLE MULTI MAGAZINE LOADER



RE-CM-ML-460AC-CT/B

DESCRIPTION

- FUJI button, or touch screen operation options available
- Four pitch selections 10, 20, 30, 40 mm (FUJI Button operation), multiple pitch selectable (touch screen operation)
- Direction from left to right, or right to left
- 3 magazines loading capacity
- SMEMA compliant

POWER SUPPLY	230 VAC, 50/60 Hz
AIR PRESSURE	6 bar
PCB SIZE	Min: 50 x 50 mm, maks: 535 x 460 mm
TRANSFER HEIGHT	900 ± 20 mm or specify
PCB DIRECTION	Option for left to right or right to left
MAGAZINE RACK SIZE	355 x 320 x 563 mm, 460 x 400 x 563 mm, 535 x 460 x 570 mm, 535 x 530 x 570 mm
PITCH	10, 20, 30, 40 mm or specify
DIMENSIONS	1750 x 1100 x 1190 mm
CONTROL PANEL	1. Touch screen, 2. FUJI button



ADJUSTABLE MULTI MAGAZINE UNLOADER



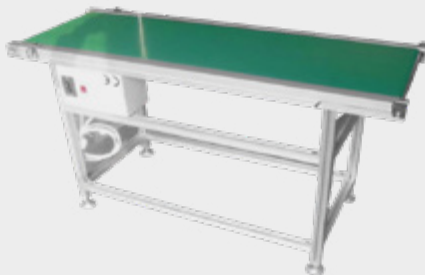
RE-CM-MU-460AC-CT/B

DESCRIPTION

- Unloader with width adjustment function
- FUJI button, or touch screen operation options available
- Four pitch selections 10, 20, 30, 40 mm (FUJI Button operation), multiple pitch selectable (touch screen operation)
- Direction from left to right, or right to left
- 3 magazines loading capacity
- SMEMA compliant

POWER SUPPLY	230 VAC, 50/60 Hz
AIR PRESSURE	6 bar
PCB SIZE	MIN: 50 X 50 MM, MAKES: 535 X 460 MM
TRANSFER HEIGHT	900 ± 20 mm lub or specify
PCB DIRECTION	Option for left to right or right to left
MAGAZINE RACK SIZE	355 x 320 x 563 mm, 460 x 400 x 563 mm, 535 x 460 x 570 mm, 535 x 530 x 570 mm
PITCH	10, 20, 30, 40 mm or specify
DIMENSIONS	2500 x 1100 x 1150 mm
CONTROL PANEL	1. Touch screen, 2. FUJI button

FLAT BELT CONVEYOR



RE-CM-C

DESCRIPTION

- Optional control sensors
- Heat-resistant, ESD belt with non-slip surface
- Customizable length and width

POWER SUPPLY	230 VAC, 50/60 Hz
PCB WIDTH	Customized
PCB DIRECTION	Option for left to right or right to left
TRANSFER HEIGHT	900 ± 20 mm

OUTFEED CONVEYOR



RE-CM-C-120LW

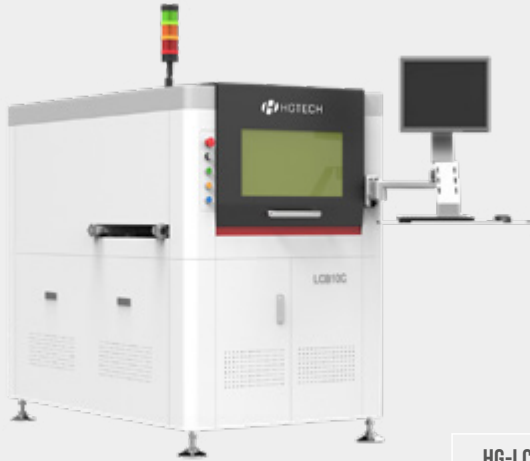
DESCRIPTION

- Conveyor handles PCBs going out from a wave soldering machine, with height adjustment
- Angle adjustment at PCB input and output
- Heavy-duty aluminum construction
- Optional fan attachment for extra cooling capacity

POWER SUPPLY	230 VAC, 50/60 Hz
PCB WIDTH	50 - 450 mm
PCB DIRECTION	Option for left to right or right to left
DIMENSIONS	1200 x 500 x (750 - 1200) mm



DOUBLE HEADS PCB LASER MARKING MACHINE



HG-LCB10C

DESCRIPTION

- Double - head laser marking machine based on a patented technology using two CO2 laser heads for simultaneous marking of both sides of the plate
- The use of the rotation module is simple - after completing the marking, the PCB is turned over to mark it on the other side
- The use of two heads eliminates the problem of the turning system, which reduces the marking time by up to two times
- The device can work in line or independently, depending on the customer's needs

SYSTEM POWER SUPPLY	2,5 kW/AC 220V/50 Hz
MARKING THE LOCATION ACCURACY	±0,1 mm
COOLING SYSTEM	air cooling
LASER PARAMETERS	- Laser wave length: 10640 nm - Nominal average output power: 10 W - Average power stability: <3% rms
ENVIRONMENT TEMPERATURE	10 ~ 35°C
DIMENSIONS	1650x1000x1500 mm

FIBER, OFFLINE LASER MARKING MACHINE



HG-LSF50-50W

DESCRIPTION

- Compact design with stable performance
- Extensive customization to meet the marking needs of a variety of products
- Perfect marking effect, even for small complex graphics.
- Fiber series products use 1064nm wavelength laser, which is suitable for various metal materials such as: iron, copper, aluminum, gold, silver and some non - metallic materials such as PC, ABS, PVC, PC + AB.

STANDARD EQUIPMENT

- The device works independently
- Desktop: 2D
- Fast galvanometer
- Manual Z axis
- Control cabinet
- Computer
- Keyboard

LASER SOURCE	Raycus Fiber
CONTROL CARD	EZCAD
WAVELENGTH	1064 nm
MARKING AREA	110x110mm
POWER	50 W
STABILITY	<3% rms



DEPANELING SYSTEM WITH UV LASER



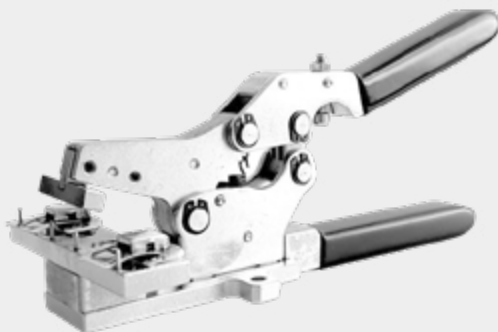
HG-LBB20U

DESCRIPTION

- Double - head laser marking machine based on a patented technology using two CO2 laser heads for simultaneous marking of both sides of the plate
- The use of the rotation module is simple - after completing the marking, the PCB is turned over to mark it on the other side
- The use of two heads eliminates the problem of the turning system, which reduces the marking time by up to two times
- The device can work in line or independently, depending on the customer's needs

SYSTEM POWER SUPPLY	2,5 kW/AC 220V/50 Hz
AVERAGE LASER POWER	20 W
LASER WAVE LENGTH	355 nm
MAXIMUM SCANNING SPEED	7000 mm/s
REPEATABILITY	<3 um
FOCAL SPOT DIAMETER	20 um
LENS WORKING AREA	50x50 mm
DIMENSIONS	1650x1000x1500 mm

SPLICE TOOL



RE-F0381D-4P

DESCRIPTION

- Dedicated for tapes splice
- Table fixing possibility
- Unique design
- Improve splice process
- 4 pins
- Handle colour: black

SPLICE TOOL



RE-F0381A

DESCRIPTION

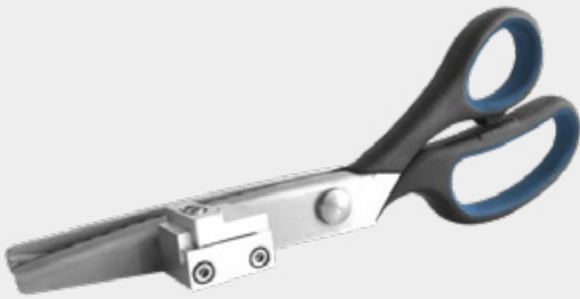
- Dedicated for tapes splice
- Unique design
- Improve splice process
- 4 pins
- Handle colour: orange

**SPLICE CUTTER WITH SPECIAL POSITIONING FUNCTION**

RE-F0382F

DESCRIPTION

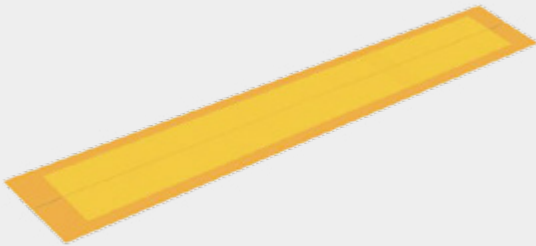
- Dedicated for cutting of tapes
- Positioning function
- Security lock
- Cutting blade
- 2 pins
- Handle color: blue

POSITIONING CUTTER WITH TOOTH

RE-F0382B

DESCRIPTION

- Dedicated for cutting of tapes
- Positioning column
- Precise cutting
- Tooth cutting blade
- 2 pins
- Handle colour: black

YELLOW SELF-ADHESIVE CONNECTORS FOR TAPED SMD COMPONENTS**DESCRIPTION**

- The connector used to ensure the continuity of the production process

CAT. NO.	PACKAGE	WIDTH
RE-T0181-12MM	1000 pcs.	12 mm
RE-T0181-16MM	1000 pcs.	16 mm
RE-T0181-24MM	1000 pcs.	24 mm
RE-T0181-8MM	1000 pcs.	8 mm
RE-T0182-16MM	500 pcs. 2 in 1	16 mm
RE-T0183A-8MM	1000 pcs. 4 in 1	8 mm

STARTING TAPE**DESCRIPTION**

- Splice cover tape extender used to ensure continuity of production process

CAT. NO.	PACKAGE	WIDTH
RE-T0185-24MM	250 pieces	24 mm
RE-T0185-8MM	500 pieces	8 mm



RACK MAGAZINE BS-5



RE-BS-5

DESCRIPTION

- Metal construction
- Made out of conductive polypropylene
- Dimensions: 535 x 530 x 570 mm
- PCB width: 40 - 460 mm
- Distance between slots: 10 mm | Number of slots: 50
- Slots dimensions: depth: 3.5 mm, width: 5 mm
- Resistance: $10^4 - 10^6 \Omega$
- Max. operating temperature: 120°C
- Variable width adjustment
- ESD version

RACK MAGAZINE HM-6310

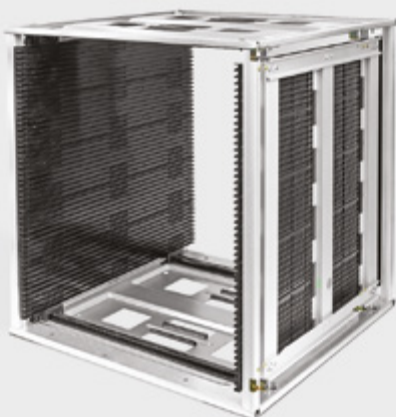


RE-HM-6310

DESCRIPTION

- Semi-metal construction
- Made out of conductive polypropylene
- Dimensions: 355 x 315 x 575 mm
- PCB width: 350 x 80 - 250 mm
- Distance between slots: 10 mm
- Slots dimensions: depth: 3.5 mm, width: 8 mm
- Resistance: $10^4 - 10^6 \Omega$
- Number of slots: 50
- Adjustable width
- ESD version

RE-HM-7616 MAGAZINE RACK



RE-HM-7616

DESCRIPTION

- Check product availability before ordering as it is only available while stocks last.
- Structure partly made of metal
- Magazine made of conductive polypropylene
- PCB width: 535 x 50 - 460 mm
- Distance between slots: 10 mm
- Slot dimensions: depth 3 mm, width 5 mm
- Resistance: $10^4 - 10^6 \text{ Ohm}$
- Number of slots: 50
- Smooth width adjustment
- Max temperature: 120°C
- ESD version



REECO HM-6320 MAGAZINE RACK



RE-HM-6320

DESCRIPTION

- Structure partly made of metal
- Magazine made of conductive polypropylene
- Dimensions: 355x320x563mm
- PCB width: 330x(50 - 255)mm
- Distance between slots: 10 mm
- Slot dimensions: 3 mm deep, 5 mm wide
- Resistance: $10^4 - 10^6$ Ohm
- Number of slots: 50
- Smooth width adjustment
- Max temperature: 80°C
- ESD version

REECO HM-6322 MAGAZINE RACK

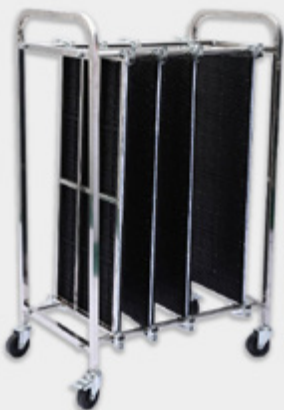


RE-HM-6322

DESCRIPTION

- Partly metal construction
- Magazine made of conductive polypropylene
- Dimensions: 460x400x563 mm
- Board size: 460x (70 - 330) mm
- Distance between slots: 10 mm
- Slot dimensions: depth 3 mm, width 5 mm
- Resistance: $10^3 - 10^9$ Ohm
- Number of slots: 50
- Smooth width adjustment
- Max temperature: 80 ° C
- ESD version

PCB TRANSPORT TROLLEY



RE-BS-I-26

DESCRIPTION

- Magazine made out of conductive polypropylene
- Stainless steel construction
- Adjustable magazine width
- Slots dimensions: depth: 4.5 mm, width: 4.5 mm
- Distance between slots: 10 mm
- Resistance: 106~109Ω
- Number of slots: 300
- Dimensions: 900 x 550 x 1380 mm
- Convenient transport handles



RECO DRY CABINETS



DESCRIPTION

- The cabinets are perfect for maintaining a low level of humidity – essential for the proper storage of MSD (moisture-sensitive devices).
- They ensure safe storage of components in compliance with the IPC/JEDEC J-STD-033B.1 standard and are also protected against electrostatic discharge.
- Easy to use – simply connect to a power source and the cabinet is ready for operation; no settings adjustments are required.
- Humidity range: 1 – 10% RH
- All doors are individually lockable
- Average power consumption: 47 W
- Maximum power consumption: 370 W

CAT. NO.	CAPACITY	EXTERNAL DIMENSIONS	NUMBER OF SHELVES	NUMBER OF DOORS
RE-TR-FCDE-160(A)	160 L	450 x 450 x 1030 mm	3	1
RE-TR-FCDE-240(A)	240 L	600 x 400 x 1265 mm	3	2
RE-TR-FCDE-320(A)	320 L	900 x 450 x 1030 mm	3	2
RE-TR-FCDE-435(A)	435 L	900 x 600 x 1030 mm	3	2
RE-TR-FCDE-540(A)	540 L	600 x 750 x 1500 mm	3	2
RE-TR-FCDE-728-2(A)	728 L	600 x 710 x 1920 mm	5	2
RE-TR-FCDE-728-3(A)	728 L	600 x 710 x 1920 mm	5	3
RE-TR-FCDE-870(A)	870 L	900 x 600 x 1880 mm	5	4
RE-TR-FCDE-1428-4(A)	1428 L	1200 x 710 x 1920 mm	5	4
RE-TR-FCDE-1428-6(A)	1428 L	1200 x 710 x 1920 mm	5	6

GHIBLI ADV ESD DRY STORAGE CABINET



DESCRIPTION

- Simply connect the device to the main power supply without any settings, and it will reliably maintain humidity below 5% RH (5% RH is guaranteed, but the cabinets easily reach 2% RH).
- The cabinet is equipped with a portable DryLogger IT - 9265302.
- The portable DryLogger can measure RH and temperature values at several points inside the cabinet, record H/T data, and transfer it to a computer for graphing and analysis.
- The dehumidifier modules are easily removable, facilitating repair and ensuring the long life of the cabinet.
- Smart magnetic handles with key lock on every door.
- Average power consumption: 80 W
- Maximum power consumption: 500 W

CAT. NO.	CAPACITY	EXTERNAL DIMENSIONS	NUMBER OF SHELVES	NUMBER OF DOORS
IT-8106810	350 L	580 x 767 x 895 mm	2	1
IT-8106809	700 L	1160 x 765 x 1720 mm	5	2
IT-8106808	1400 L	1160 x 765 x 1720 mm	5	4



SAHARA BAKING OVENS



DESCRIPTION

- Many sizes (from 40 to 700 liter) and power to satisfy all different applications
- The ovens are controlled by a digital controller that is easy to set.
- This digital controller is a smart PID thermo regulator with integrated datalogger and multifunction timer
- Professional forced ventilation oven ideal for:
 - Drying the MSD components to reset the floor life clock
 - Drying the PCBs (Printed Circuit Boards) before the assembly
 - Drying the PBAs (Printed Boards Assembled) before the rework or repair
 - Pre-heating of the PCBs / PBAs to reduce the ΔT °C before rework or repair

CAT. NO.	CAPACITY	DIMENSIONS	SHELVES (INCLUDED/MAX)	POWER SUPPLY
IT-8107103	40 l	686 x 515 x 575 mm	1/7	800W / 230V
IT-8107105	60 l	746 x 570 x 605 mm	2/7	1200W / 230V
IT-8107107	80 l	796 x 570 x 680 mm	2/7	1200W / 230V
IT-8107109	120 l	836 x 680 x 720 mm	2/9	1600W / 230V
IT-8107111	250 l	956 x 730 x 1025 mm	2/11	2500W / 230V
IT-8107113	400 l	901 x 815 x 1487 mm	2/11	3200W / 230V

VAPOR PHASE TWO GOLDEN VAPOR SOLDERING OVEN



VP-TWO

DESCRIPTION

- Fast temperature profiles - The design of Vapor Phase Two allows the user to run fast temperature profiles using a height - adjustable PCB lift.
- Custom soldering profiles - The Vapor Phase Two can import individual soldering profiles via an SD card. Based on these profiles, heating power and lift position are adapted to different solder pastes and PCB technologies.
- Quick Cool - This feature shortens the process time and ensures minimal loss of Galden when the board is removed.
- Anti Condensation - With the vapor phase technology, the soldered assembly is generally covered with Galden residues. Our assembly is kept at a temperature of 120 °C after the soldering process, thus leaving hardly any residues.
- Lifting lid - The lid to the process chamber lifts automatically to simplify the insertion and removal of PCBs. This also helps to preserve the heat transfer medium.

DIMENSIONS	627 x 650 x 407 mm
MAXIMUM SOLDERING AREA	300 x 335 mm; Height: 60 mm
POWER CONSUMPTION VOLTAGE	2200 W 115 / 230 VAC (60 / 50 Hz)
AMBIENT TEMPERATURE	+ 15°C ... + 35°C
WEIGHT	35 kg
ENCLOSURE	Stainless steel
COOLING	Closed water cooling system with 6x 120 mm fans
TESTED HEAT QUANTITY OF GALDEN	Galden LS 230, XS 235 i HS 240 2 kg
DATA INTERFACE	SD card
DISPLAY	4 - inch capacitive touchscreen with 800 x 480 pixels



STRATEGIC STORAGE SOLUTION



IE-14GP20000

DESCRIPTION

- Not only a cabinet – more than a software
- Based on hardware of intelligent automatic and static warehouse integrated with a software platform
- Main activities:
 - Receipt parts
 - Approval control
 - Labelling
 - Entrance warehouse
 - Panning
 - Picking
 - Set-up SMT line
 - Material consumption
 - Return parts to warehouse
 - Traceability
- FLEXIBILITY TO ADAPT and tailor the system to fit a company's particular production process
- Internal shelves can be moved in any combination permitted by the total given dimension of the cabinet
- Expandible stocking capacity
- Possible insertion of different sizes of reels (7" / 13" – 15")
- Fast loading and unloading
- Optional humidity control system

REELS CAPACITY (NO EXTENSION)			
CONFIGURATION	7"	13" - 15"	TOTAL
LZERO3 SMALL	1500	-	1500
LZERO3 STANDARD	900	200	1100
LZERO3 MIXED	635	265	900
LZERO3 WIDE (8-12-16 MM)	-	700	700
LZERO3 WIDE (24-32 MM)	-	400	400

EXPANSION

Stocking capacity can be expanded continuously by combining automatic storage cabinets, extension storage modules and static warehouse units.



STORAGE CAPACITY	Up to 2088 SMD reels
REELS SIZE	From 7" to 13" – 15"
REELS HEIGHT	8 mm - 12/16 mm - 24 mm - 32 mm - 44 mm - 56 mm - >56 mm - to 88 mm
AVERAGE LOADING / UNLOADING TIME	22 seconds



AUTOMATIC INCOMING STATION



IE-14GP30044

DESCRIPTION

- Reads and records the values of all barcodes stored on the reel
- Full traceability through importing values into the WMS software system
- High reading and recording speed significantly shortens material receiving time and eliminates human errors
- High precision in barcode reading
- Possibility to customize according to individual requirements and needs

ADVANCED STORAGE AND RETRIEVAL SYSTEM FOR SMD COMPONENTS



ARC-WÓZEK ARCHIMEDE

DESCRIPTION

- It is born to easily transfer components between our main Archimede cabinets and P&P feeders or feeders kitting zone.
- It uses the same Archimede sensorized shelves and software and it will make - transfer quick and safe by the use of sensors.
- It's battery driven and wifi connected (you need a 5G wifi signal)
- FULLY CUSTOMIZABLE SYSTEM TAILORED TO CLIENT NEEDS
 - Compatible with the ARCHIMEDE SYSTEM
 - Each position is equipped with a sensor and a dedicated RGB LED
 - Compatible shelves available for all types of SMD components – reels (7", 10", 13", and 15"), trays, or bulk

MAXIMUM NUMBER OF REELS	720
MAXIMUM NUMBER OF SHELVES	12
WEIGHT	200 kg

APPLICATION

- You select a BOM from Archimede software
- You select a BOM from Archimede software
- You'll have all components lighted on the Smart Storage cabinets
- You transfer the components from cabinets to Cart simply picking them and placing them on Cart on any empty valid position
- You move with the Cart in kitting zone to fill the feeders
- From Cart you will select the BOM to transfer (if you have components for more than one BOM on the same Cart) and on Cart display you'll have the components to be installed on feeders lighted or all of them at the same time on only one by one.
- If you select this option, while a component is lighted for pickup, on the display you will see the component's info and barcode for scanning its data on the P&P software (this is useful if a customer doesn't have on P&P software the possibility of handling UID codes).
- On the cart display, the components to be loaded onto the feeders will be highlighted (either all at once or one by one, depending on the selected option). If you choose the single-component highlighting option, the display will show detailed information about the component along with a barcode to be scanned in the P&P software. This is especially useful if the customer uses Pick&Place machine software with UID code support.



STORAGE AND RETRIEVAL ARCHIMEDE SYSTEM FOR SMD COMPONENTS



ARC-SYSTEM ARCHIMEDE

DESCRIPTION

- Optimized for SMT reels, sticks and trays
- Streamlines the flow of components between warehouse and production
- Saves floor space: up to 720 reels stored in 0,45 m2
- Reduces kitting time: modular and flexible, offers versatile configuration and application, extending the benefits of automation from simple storage to more complex goods handling operations such as picking, kitting and refilling etc.
- Time saver: 5 seconds reel storage time and 3 seconds retrieval time
- BoM management and FiFo functions for easy production control and optimization: residual quantity, real time stock situation, warnings, humidity and expiring data tracking
- Ind. 4.0 ready: full traceability, easy link with factory MRP software, custom solution for P&P software
- Sensors and Leds for automatic reels location
- 7" inches full color touchscreen display
- Color: Black. Custom color available by ordering 3+ units

MAXIMUM NUMBER OF REELS	720
MAXIMUM NUMBER OF SHELVES	12
WEIGHT	200 kg

SOFTWARE PROPERTIES

- A single sw to manage all the racks/shelves
- Easy to use production list creator / import production list from BOM or P&P file
- Presence check of all components necessary for production based on quantity of boards to be assembled
- Selectable reels finder mode
- Light up simultaneously the required ones
- Sequential light up according to any chosen criteria (FiFo, expiration date, residual components quantity etc.): each shelf's display shows the next component to be picked up
- Import of reel's data from generic files (e.g.csv generated from management sw, purchase orders, delivery note, etc.)
- Real time printing labels (1D/2D) during reel's import process
- Customers/Suppliers manager function for reels/production lists
- Operator manager function: each action is associated with operator who performed it

SHELVES PROPERTIES

- Sensored positions to prevent picking/storage errors. RGB Leds show status for each position
- Detection of picking errors
- Touchscreen display for local operations and view reels info
- Barcode scanner
- Ultra - fast „Scan&Place" mode: if the reel's code, once scanned, is correctly recognized and present in the DB, simply insert the reel in any empty position
- Space saver: reels can be placed in any empty housing suitable for their sizes
- Automatic real time check for correct reels storage
- System (option) can be mounted on wheels and equipped with battery to be used close to P&P/feeders: exceptional time saver. Reduces changeover/setup time and errors

FULLY CUSTOMIZABLE SYSTEM TAILORED TO CLIENT NEEDS

- A single system can accommodate up to 12 shelves arranged on both sides, for a maximum of 720 reels (7", 8 mm or 12 mm wide).
- Shelf arrangement can be managed using a dedicated control package within existing cabinets.
- The system supports storage of 7", 10", 13", and 15" reels, as well as shelves for trays and tubes.

NOTES SECTION

A large grid of small dots for taking notes, consisting of 20 columns and 30 rows.



INDUSTRIAL ROBOTS

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MANUFACTURING AND DISTRIBUTION OF INDUSTRIAL ROBOTS

We create modern applications and solutions, which we successfully offer and deliver to manufacturing facilities.

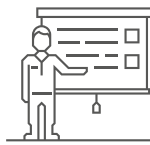
Since 2017 the RENEX ROBOTICS department has been distributing Yamaha robots in Central and Eastern Europe. We offer a wide range of industrial robots that meet the requirements and expectations of each industry sector.





YAMAHA ROBOTICS DISTRIBUTOR

YAMAHA Robots are used in several countries on manufacturing lines in various industries such as the electronic components assembly, large LCD panels manufacturing, pharmaceutical, medical and automotive industries.



TRAININGS

We provide training and consulting services for engineers, operators, technologists and maintenance personnel.



ROBOT MANUFACTURER

The offer includes robots for selective soldering of throughhole elements using SCARA robots and robots for dosing and potting. The machines are equipped with edge transport and SMEMA interface, compliant with IPC guidelines.



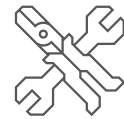
TECHNICAL SUPPORT

We provide professional support throughout the country, both at the customer's premises and at the Renex Technology Center.



TECHMAN ROBOT DISTRIBUTOR

With Techman Robots, even the most demanding tasks become achievable. Optimize your production, minimize errors, and rely on advanced technology that adapts to your needs.



WARRANTY SERVICE

We provide warranty and post-warranty service. We offer an extension of the warranty period.

ARE YOU AN INTEGRATOR?

We are eager to establish cooperation in the area of supply and training in the field of process automation in various branches of industry.

For more information, please contact us.

BUSINESS INFORMATION
T: + 48 601 592 555

TECHNICAL INFORMATION
T: + 48 504 709 501

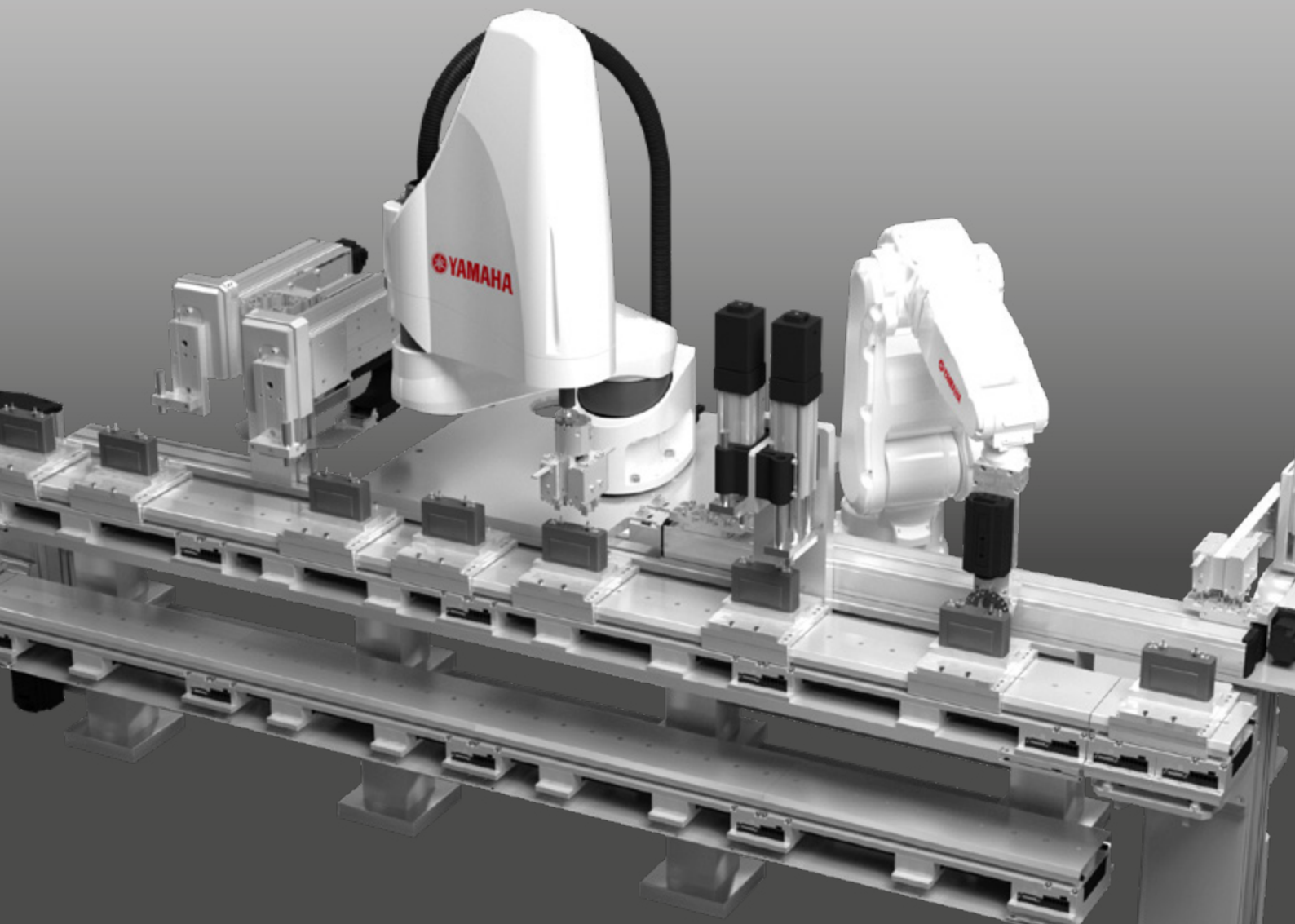
WIDE RANGE
OF INDUSTRIAL
ROBOTS

EFFECTIVE AUTOMATION
OF MANUFACTURING
PROCESSES

THE HIGHEST QUALITY
OF OFFERED PRODUCTS



PRODUCTION AUTOMATION,
VERSATILE SOLUTIONS





YAMAHA INDUSTRIAL ROBOTS SCARA TYPE



YJ-YK-X

DESCRIPTION

- Industry-leading working speed, accuracy and precision
- Arm length: from 120 mm to 1200 mm
- Maximum load: 1 kg - 50 kg

YAMAHA INDUSTRIAL ROBOTS SCARA ORBIT TYPE

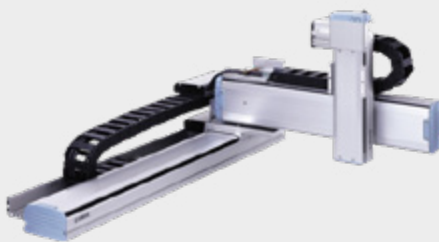


YJ-YK-TW

DESCRIPTION

- The working area is a rectangular plan
- Arm length: 350 mm and 500 mm
- Maximum load: 4 kg - 5 kg

YAMAHA INDUSTRIAL ROBOTS CARTESIAN TYPE



YJ-XY-X

DESCRIPTION

- Wide range of possible configurations in terms of load capacity, dimensions and transmission methods
- Yamaha controllers support up to 16 axes in one system
- XY-X axis length: 150 mm - 2050 mm
- Maximum load: 4.5 kg - 40 kg

YAMAHA INDUSTRIAL CLEANROOM ROBOTS



YJ-YK-X-CR

DESCRIPTION

- Robots designed for cleanroom environments
- Sealed robot design prevents dust emission and ensures a high degree of cleanliness
- Arm length: from 120 mm to 1200 mm
- Maximum load: 1 kg - 50 kg



YAMAHA LCM-X LINEAR TRANSPORT MODULE



YJ-LCMR200

DESCRIPTION

- Modern modular transport system with linear drive
- Repeatability of position: ± 5 (micrometer)
- Maximum acceleration: 5G
- Maximum speed: 3 m/s
- Distance between the zippers: 210 mm

YAMAHA PRECISE ELECTRIC GRIPPERS



YJ-GR

DESCRIPTION

- Wide range of available models
- Vertical and horizontal versions
- Controls integrated with the robot

YAMAHA VISION SYSTEMS



YJ-IVY2

DESCRIPTION

- Easy plug-and-play installation
- Works with mobile transport systems
 - compatible with mobile conveyors
 - cameras from 0.3M to 5M pixels
 - integrated lighting control

YAMAHA SINGLE AXIS GX ROBOT



YJ-GX

DESCRIPTION

- Ground ball screws as a standard feature
- All models comply with JIS Standard accuracy class C5
- Positioning accuracy repeatability: $\pm 5\mu\text{m}$
- Stroke range: 50 mm to 1.450 mm
- Maximum carrying capacity: 160 kg

REECO ROBOTS



Reeco.info



REECO ROBOTS

The manufacturer of the robots is Yamaha, whose representative in Poland and the Balkan countries is RENEX.



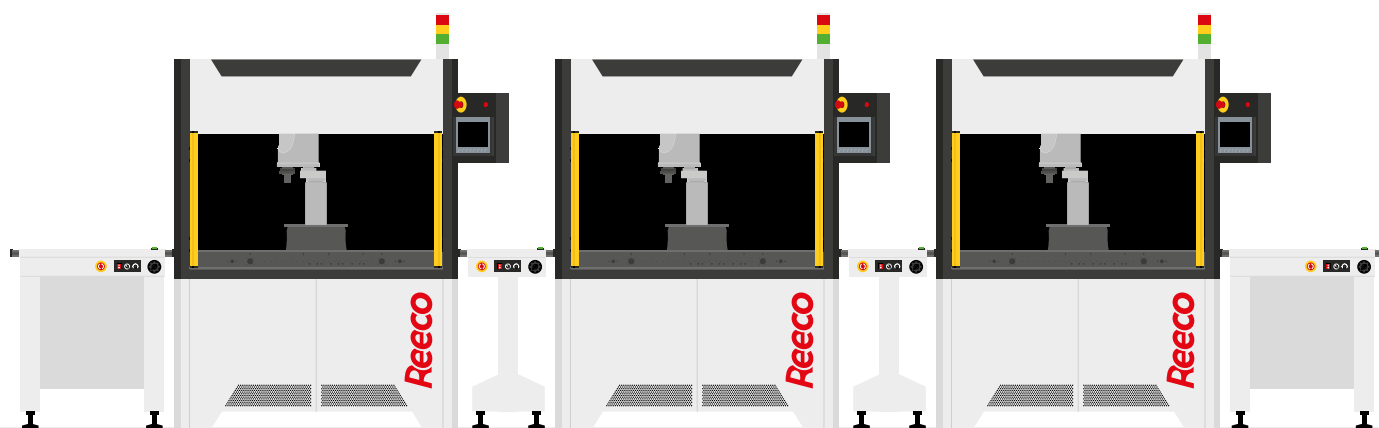
WWW.RENEXROBOTICS.COM

READY TO USE SOLUTIONS

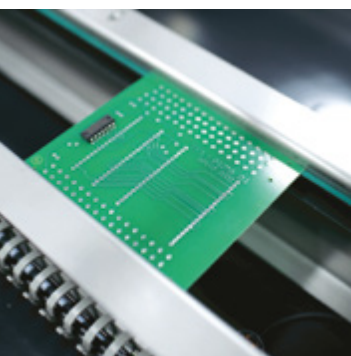
REECO Robots do not require any complicated planning or integration and can be easily integrated into a production process. They allow companies with little to no automation experience to utilize modern robotic solutions.

QUICK RETURN ON INVESTMENT

REECO Robots have been designed to allow even small and medium sized companies to automate their processes. Although they use highest quality materials and components, they are characterized by low initial investment and low maintenance costs.



SMEMA communication allows several machines to work in line.





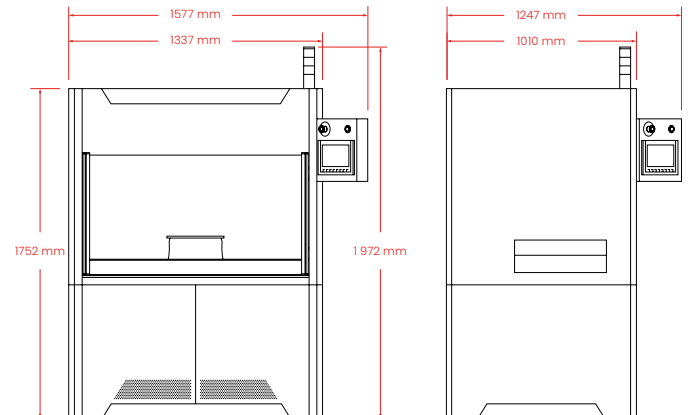
EDGE CONVEYOR



DESCRIPTION

This version of REECO Robots was developed for inline use. The machines can be set up in series or combined with other types of equipment. The robots are equipped with standard SMEMA system allowing for easy connection.

DIMENSIONS



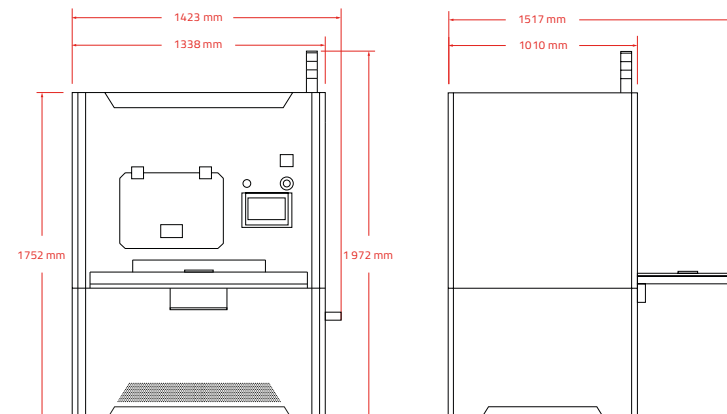
ROTARY TABLE



DESCRIPTION

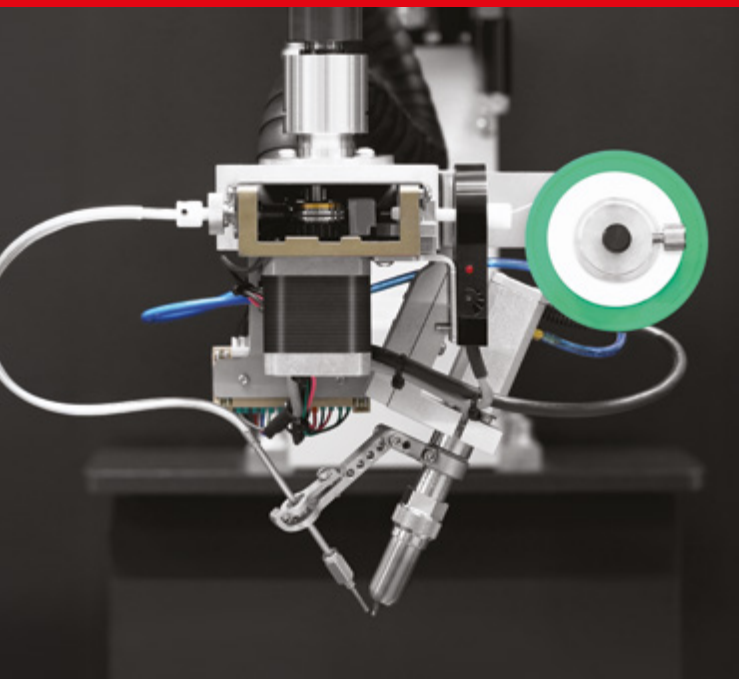
The solution was developed for situations in which REECO Robots are used offline. It enables ergonomic manual insertion of a workpiece (e.g. PCB) into the work area. While work is performed on one side of the rotary table, the operator can safely use the other side to prepare the next workpiece allowing for uninterrupted workflow.

DIMENSIONS





SOLDERING ROBOT REECO RE-2100



DESCRIPTION

- Automatic mechanical workpiece positioning
- Process parameters controlled by the PLC
- Solder feeder with feeding profile configuration
- Mechanical solder tip cleaner
- Possibility to control the soldering profile for each point
- Automatic calibration of the soldering tip position

OPTIONS

- Vision system for workpiece positioning
- Vision system for soldering quality control
- Statistical data gathering
- Traceability
- Nonstandard diameters of solder wire
- Nitrogen shielding
- More than 40 different types of soldering tips available

STANDARD DIAMETERS OF SOLDERING WIRE	0,8 mm 1,0 mm 1,2 mm
SUPPORTED APPLICATIONS	Width: 350 mm Length: 420 mm
LARGER SYSTEMS ARE AVAILABLE UPON INDIVIDUAL REQUEST	

DISPENSING ROBOT REECO RE-2200



DESCRIPTION

- Automatic mechanical workpiece positioning
- Possibility of dispensing various mediums: including adhesives, acrylics, silicones
- Wide range of containers, pumps and valves available
- Possibility to control the dispensing profile
- Automatic calibration of the tool position

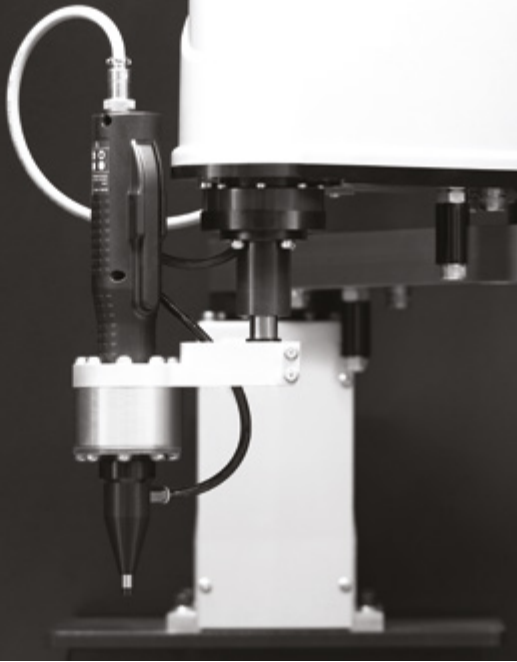
OPTIONS

- Vision system for dispensing quality control
- Two-component mixing system
- Progressive cavity pump
- Statistical data gathering
- Traceability
- Monitoring of the dispensing profile (measurement of medium flow)

SUPPORTED APPLICATIONS	Width: 350 mm Length: 420 mm
LARGER SYSTEMS ARE AVAILABLE UPON INDIVIDUAL REQUEST	



SCREWDRIVING ROBOT REECO RE-2300



DESCRIPTION

- Automatic mechanical workpiece positioning
- Automatic screw feeder
- Vacuum pick up system
- Torque control
- Automatic calibration of the tool position

OPTIONS

- Vision system for workpiece positioning
- Vision system to ensure the presence of screws after the process
- Screwdriver with two torque converters
- Several screwdriving profiles
- Statistical data gathering
- Possibility to control the screwdriving profile depending on the workpiece
- Possibility to record the tightening profile of each screw
- Traceability

SUPPORTED APPLICATIONS

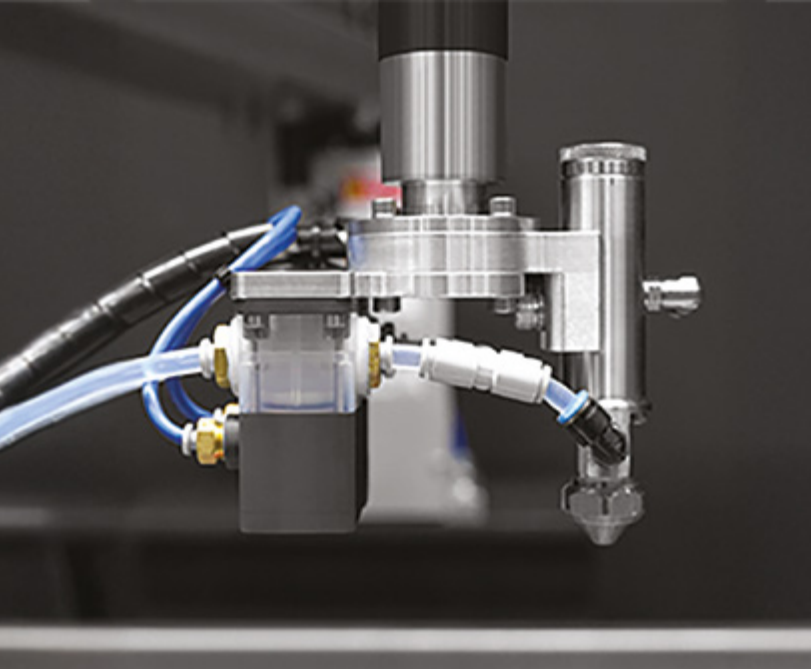
Width: 350 mm | Length: 420 mm

TORQUE

0.05 - 5 Nm

LARGER SYSTEMS ARE AVAILABLE UPON INDIVIDUAL REQUEST

CONFORMAL COATING ROBOT REECO RE-2500



DESCRIPTION

- Automatic mechanical workpiece positioning
- Possibility of selective spray application of various coatings
- Various types of medium containers can be used
- Possibility to control the coating profile
- Automatic calibration of the tool position

OPTIONS

- Vision system for workpiece positioning
- Vision system for quality control
- Statistical data gathering
- Traceability
- Vapor extraction in the table
- Automatic flushing of valves
- Possibility of installing 2 valves per head

SUPPORTED APPLICATIONS

Width: 350 mm | Length: 420 mm

LARGER SYSTEMS ARE AVAILABLE UPON INDIVIDUAL REQUEST



INDIVIDUAL SOLUTIONS

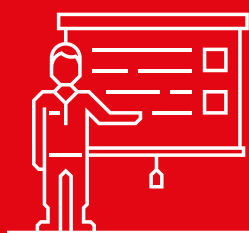


It is extremely important to choose the right partner who has the experience and expertise to handle customised projects. Thanks to our qualified personnel, experience and specialised technological facilities, we are able to tailor products and services to meet the individual needs of the customer, technically, functionally and aesthetically.

We provide comprehensive support throughout the entire automation process. We supply the equipment, install it, train the operators and provide warranty and post-warranty service.

REECO ROBOTS CAN BE USED IN INDUSTRIES SUCH AS

- Automotive
- Precision assembly plants
- Factories



Training

We provide training for engineers, technologists and maintenance services in robot operation and programming.



Technical support

We provide professional assistance both at the customer's premises as well as at RENEX Technology Centre.





The future is here,

TM AI COBOT

Collaborative robot - S Series



ADVANCED COLLABORATIVE ROBOTS TM AI COBOT S



DESCRIPTION

- The TM AI Cobot S series comprises advanced collaborative robots that combine artificial intelligence, enhanced payload capacities, and dynamic capabilities to handle more demanding production tasks.
- These cobots offer increased speed, precision, and the ability to operate in challenging industrial environments.
- One of the key advantages of Techman cobots is their built-in vision system, which replaces the need for external cameras and sensors. Equipped with an integrated camera and TMvision™ software, the robots can automatically locate objects, recognize patterns, read QR codes, and inspect product quality in real time. This enables quick deployment without the need for specialized programming knowledge and significantly reduces setup time. The system enhances flexibility and operational precision, making Techman cobots an ideal solution for dynamic manufacturing environments.

SPEED

- The speed of the 6th axis has been increased from 225°/s to 450°/s
- This reduces the production line cycle time by 25%*, resulting in greater efficiency



PRECISION

- Delivers up to 70%* higher repeatability precision at ±0.03 mm. This means the cobot can repeat the same position with an accuracy of 30 microns – thinner than a human hair
- The TM5S, TM7S, and TM25S models offer the highest precision in the S series – ideal for ultra-precise tasks
- High precision combined with a high payload capacity (e.g., TM25S) makes it a unique solution for palletizing and handling delicate, heavy components



FLEXIBILITY

- TM AI Cobot S robots are exceptionally flexible, meaning they can be successfully used across various industries and tasks – even in environments where conditions change dynamically. Their integrated vision system, ease of programming, and mobility allow for quick adaptation to different processes without the need for costly workstation reconfiguration



TM5S

- Payload: 5 kg
- Reach: 946 mm

TM6S

- Payload: 6 kg
- Reach: 1800 mm

TM7S

- Payload: 7 kg
- Reach: 758 mm

TM12S

- Payload: 12 kg
- Reach: 1300 mm

* Compared to the previous version.



TM AI SYSTEM



DESCRIPTION

The graphical interface of the integrated vision system in the TM AI Cobot eliminates the need for programming, enabling a seamless process from image collection and annotation to AI model training and deployment. This solution is perfectly suited for small and medium-sized enterprises (SMEs) that do not have in-house AI expertise or a dedicated programming department.

Throughout the entire production process, the AI Cobot collects valuable historical data, allowing companies to monitor, analyze, and utilize this information to proactively prevent defects, improve quality, and reduce production costs.

Each TM AI Series S cobot order includes free AI software worth \$1,520. To operate the software, a Control Module or external unit is required.



PAYLOAD AND REACH

- The S series offers models with medium to high payload capacities, such as the TM5S, TM7S, TM12S, TM14S, TM25S, and TM30S, enabling the handling of heavier loads and larger components
- Payloads range from a standard 6 kg (TM5S) up to 30 kg (TM30S), allowing these cobots to be used for more demanding tasks such as machine tending, welding, packaging, and palletizing



SAFETY

- S series cobots are equipped with advanced safety systems, including collision detection with immediate stop functionality, allowing safe collaboration with humans in the same workspace
- Compliance with international safety standards (ISO 10218-1:2011, ISO/TS 15066:2016) eliminates the need for additional safety barriers, reducing costs and saving space.



ACCESSORIES

- With the ability to connect to additional devices such as the Robot Stick and TM Screen, the S series offers easier operation, programming, and on-site debugging. These accessories enhance flexibility and expand the robot's control capabilities



TM14S

- Payload: 14 kg
- Reach: 1100 mm

*In a palletizing scenario

TM20S

- Payload: 20 kg
- Reach: 1300 mm

TM25S

- Payload: 30 kg*
- Reach: 1902 mm

TM30S

- Payload: 35 kg*
- Reach: 1702 mm



TMFLOW™



DESCRIPTION

TMflow™ is an intuitive software for creating and editing robot tasks through a graphical interface, making it easy to learn programming without prior robotics experience. For advanced users, the Script function is available, allowing the creation of complex logic and code editing. Choose your preferred method and program with complete freedom!

INDUSTRIAL APPLICATION

The TM AI Cobot offers exceptional performance and compatibility. Equipped with a built-in vision system, it enables the robot to perceive its surroundings. Its AI intelligence also translates image data into precise commands for tasks such as positioning and detection, seamlessly integrating with the robotic arm for efficient task execution.

SPECIFICATION

MODEL	TM5S	TM6S	TM7S	TM12S	TM14S	TM20S	TM25S	TM30S
Weight	23.9 kg	35.5 kg	22.9 kg	33.3 kg	33 kg	33.3 kg	80.6 kg	80.6 kg
Maximum payload	5 kg	6 kg	7 kg	12 kg	14 kg	20 kg	25 kg	30 kg
Reach	946 mm	1800 mm	758 mm	1300 mm	1100 mm	1300 mm	1902 mm	1702 mm
Joint ranges	J1,J2, J4, J5, J6	+/- 360°						
	J3	+/- 158°	+/- 166°	+/- 152°	+/- 162°	+/- 159°	+/- 162°	+/- 166°
Speed	J1	210° /s	130° /s	210° /s	130° /s	130° /s	100° /s	
	J2						95° /s	
	J3	210° /s	210° /s	125° /s	130° /s			
	J4	225° /s		225° /s	160° /s	195° /s		
	J5	225° /s		225° /s	190° /s	210° /s		
	J6	450° /s					225° /s	
Max. speed	4.5 m/s						5.2 m/s	
Repeatability	+/- 0.03 mm	+/- 0.10 mm	+/- 0.03 mm	+/- 0.03 mm	+/- 0.03 mm	+/- 0.05 mm		
Degree of Freedom	6 rotating joints							
I/O	Control box	Digital In: 16 / Digital Out: 16						
		Analog In: 2 / Analog Out: 2						
	Tool Conn.	Digital In: 3 / Digital Out: 3						
I/O Power Supply	24V 2.0A for control box; 24V 1.5A for tool							
IP Classification	IP65 (Robot Arm); IP54 (Control Box)							
Typical Power Consumption	240 W	400 W	240 W	400 W		600 W		
Temperature	0-50°C							
Cleanliness	ISO Class 3							
Power Supply	100-240 VAC, 50-60 Hz					200-240VAC, 50-60Hz		
I/O Interface	2xCOM, 1xHDMI, 3xLAN, 2xUSB2.0, 4xUSB3.0							
Communication	RS-232/RS-422/RS-485, Ethernet, Modbus TCP/RTU (master & slave) PROFINET (optional), EtherNet/IP (optional)							
Programming Environment	TMflow (flowchart based), TMscript (script based), TMcraft (developer based)							
Certification	TÜV certificated ISO 13849-1, ISO 10218-1, ISO/TS 15066 SGS certificated UL1740, CAN/CSA Z424-14 (R2019) CE, NSF/ANSI 169 (optional), SEMI S2 (optional)							

AI & ROBOT VISION

AI Function	Classification, Object Detection, Segmentation, Anomaly Detection, AI OCR
Application	Positioning, 1D/2D Barcode Reading, OCR, Defect Detection, Measurement, Assembly Check
Positioning Accuracy	2D Positioning: 0.1 mm ¹⁾
Eye in Hand (Built in)	Auto-focused color camera with 5M resolution, Working distance 100 mm-∞
Eye to Hand (Optional)	Support Maximum 2xGigE 2D cameras or 1 xGigE 2D Camera + 1 x3D Camera ²⁾

¹⁾ The data in this table are measured by TM laboratory and the working distance is 100mm. It should be noted that in practical applications, the relevant values may be different due to factors such as the on-site ambient light source, object characteristics, and vision programming methods that will affect the change in accuracy.

²⁾ Refer to the official website of TM Plug&Play for camera models compatible to TM Robot.



TM PLUG&PLAY SOLUTION



TM Plug&Play includes a wide range of compatible products designed to fit perfectly with TM robots. All products are ready-to-use solutions that help accelerate your automation process.

TMPlug&Play 
CERTIFIED



*Recommended Manufacturer.



PALLETIZING SYSTEM



DESCRIPTION

- **Small Footprint**
Reduces factory space costs with a compact footprint
- **Flexible & Versatile**
Easily build different pallet patterns by product types to form multiple layers on a pallet
- **Multi-tasker**
Handles a variety of containers simultaneously, such as cases, bottles, batteries, and plastic containers
- **Fast & Strong**
Accommodates payloads up to 30kg tailored to your specific requirements.

A SAMPLE SET INCLUDES

- TM25S cobot
- Reeco robot column
- Pallet/Box sensor
- Necessary software

MOBILE BASE FOR TM12S, TM14S



TMR-PTM-0001

DESCRIPTION

- A mobile base under a Cobot (collaborative robot) is a platform that allows a robot to move around in a workspace, giving it greater flexibility and the ability to perform tasks in different locations
- Mobile bases are often used in robotics so that robots can move in response to changing production or logistics needs
- With these mobile bases, cobots become more versatile and can be used in a variety of applications, such as material handling, assembly, testing, or inspection
- Compatible with TM12S and TM14S models.

WIDTH	DEPTH	HEIGHT
950 mm	950 mm	1200 mm

MOBILE BASE FOR TM7S, TM5S



TMR-PTM-0000

DESCRIPTION

- A mobile base under a Cobot (collaborative robot) is a platform that allows a robot to move around in a workspace, giving it greater flexibility and the ability to perform tasks in different locations
- Mobile bases are often used in robotics so that robots can move in response to changing production or logistics needs
- With these mobile bases, cobots become more versatile and can be used in a variety of applications, such as material handling, assembly, testing, or inspection
- Compatible with TM5S and TM7S models.

WIDTH	DEPTH	HEIGHT
750 mm	630 mm	735 - 1035 mm

PALLETIZING BASE



DESCRIPTION

A modern, compact workstation designed for automating palletizing processes using collaborative robots (cobots). It serves as a sturdy mounting base for the robot arm and designated pallet zones, enabling fast plug & play deployment without the need for complex integration. Its optimal size and mobility make it ideal for saving space on the shop floor while enhancing efficiency and workplace ergonomics. Thanks to a flexible design approach, each base can be adapted to various cobot models—from compact arms to larger units with extended reach and payload capacity.

WIDTH	DEPTH	HEIGHT	PALLET DIMENSIONS
2404 mm	1700 mm	1133 mm	800 x 1200 mm

EWELLIX LINEAR AXIS



TMR-LIFTKIT-TM-601-TLT-500

DESCRIPTION

- TLT telescopic columns are advanced solutions for precise vertical positioning
- No hardware or software upgrades required
- Direct positioning access within the TM control environment
- Vibration-free and virtually maintenance-free movement
- Push load: 1,500 N
- Operating temperature: 10 to +40 °C
- Type of protection: IP40
- Compatible with TM5S, TM12S, TM14S, TM20S models

STROKE	HEIGHT	MAX. SPEED NO LOAD	DUTY CYCLE
500 mm*	420 - 920 mm	80 mm/s	10%

*Custom strokes of up to 1400 mm are available on request

LINAK® ELEVATE™



DESCRIPTION

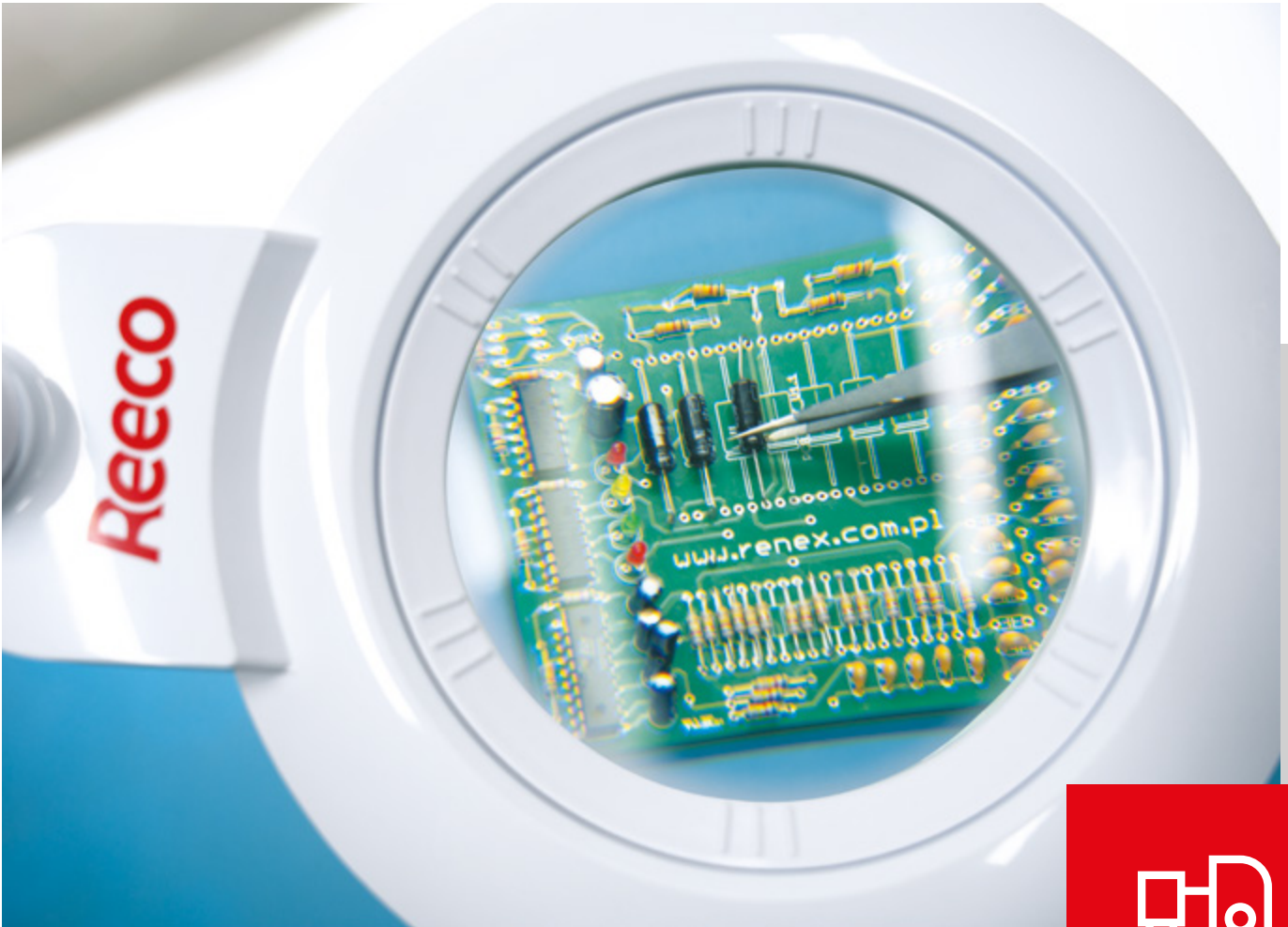
- Three-segment telescopic column with integrated IC controller
- The ELEVATE™ electric lifting column extends the range of the cobot and enables palletizing at higher levels
- Flexibility: integrated controller with Modbus TCP/IP
- Anodized aluminum profiles with zinc-coated top and bottom plates
- Dimensions [L x W x H]: 163 mm x 163 mm x 730 mm (depending on stroke)
- Weight: 34 kg
- Compatible with TM12, TM14, TM20, TM25 models

STROKE	SPEED	POSITION REPEATABILITY	DUTY CYCLE
900 lub 1100 mm	do 100 mm/s*	+/- 1,5 mm	20%

*Regardless of the load — full extension in under 10 seconds.

NOTES SECTION

A large grid of small dots for taking notes, consisting of 20 columns and 30 rows.



INSPECTION EQUIPMENT

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**REECO ESD MAGNIFIER 3D 150MM**

RE-MAG-150-E

DESCRIPTION

- Professional magnifier
- Highly stable performance in a production environment
- Boom arm with reinforced joints that allows free adjustment of the magnifier
- Wide dispersion of light
- Modern and ergonomic design
- Number of LEDs: 60 LED
- Four levels of light intensity: 100%, 75%, 50%, 25%

MAGNIFICATION	3D
LENS DIMENSIONS	150 mm
LENS TYPE	glass
ARM LENGTH	1120 mm
COLOR TEMPERATURE	6500 K

LENS 5D FOR REECO ESD MAGNIFIER 150 MM

RE-MAG-5D

DESCRIPTION

- For Reeco 150 mm LED ESD magnifier
- Colour: black
- Diameter: 150 mm - Magnification: 5 dioptries (2.25x)
- Lens material: glass

REECO MAGNIFIER WITH 3D & 20D LENS

RE-MAG-003-E

DESCRIPTION

- Highly stable performance in a production environment
- Boom arm with reinforced joints that allows free adjustment of the magnifier
- Wide dispersion of light
- The lens is protected by a cover
- Modern and ergonomic design
- Number of LEDs : 60 LED
- Four levels of light intensity: 100%, 75%, 50%, 25%

MAGNIFICATION	3D (1,75 x) and 20D
LENS DIMENSIONS	127 mm
LENS TYPE	glass
ARM LENGTH	1120 mm
COLOR TEMPERATURE	6500 K


REECO ESD MAGNIFIER 189 X 157 MM, LED, 3D


RE-MAG-002-E

DESCRIPTION

- Professional magnifier
- Highly stable performance in a production environment
- Boom arm with reinforced joints that allows free adjustment of the magnifier
- Wide dispersion of light
- Modern and ergonomic design
- Number of LEDs: 60 LED
- Four levels of light intensity: 100%, 75%, 50%, 25%

MAGNIFICATION	3D (1,75 x)
LENS DIMENSIONS	189 x157 mm
LENS TYPE	glass
ARM LENGTH	1120 mm
COLOR TEMPERATURE	6500 K

REECO MAGNIFIER WITH 3D & 5D LENS


RE-MAG-127

DESCRIPTION

- Highly stable performance in a production environment
- Boom arm with reinforced joints that allows free adjustment of the magnifier
- Wide dispersion of light
- Modern and ergonomic design
- Number of LEDs : 60 LED
- Four levels of light intensity: 100%, 75%, 50%, 25%

MAGNIFICATION	3D and 5D
LENS DIMENSIONS	127 mm
LENS TYPE	glass
ARM LENGTH	1120 mm
COLOR TEMPERATURE	6500 K

REECO UV MAGNIFIER WITH 3D LENS


RE-MAG-003-127-UV

DESCRIPTION

- Highly stable performance in a production environment
- Boom arm with reinforced joints that allows free adjustment of the magnifier
- Wide dispersion of light
- Modern and ergonomic design
- Number of LEDs: 60 LED UV
- Four levels of light intensity: 100%, 75%, 50%, 25%

MAGNIFICATION	3D
LENS DIMENSIONS	127 mm
LENS TYPE	glass
ARM LENGTH	1120 mm
WAVELENGTH	405 nm UV



TABLE STAND FOR THE MAG-9006LED-127



RE-MAG-TS1

DESCRIPTION

- Table stand for the MAG - 9006LED - 127

COLOUR	White
WEIGHT	5 kg
SHAPE	Circular

REECO ESD MAGNIFIER 178MM WITH LENS 3D AND 5D



+ 5D LENS

RE-MAG-178-E

DESCRIPTION

- Professional magnifier
- Highly stable performance in a production environment
- Boom arm with reinforced joints that allows free adjustment of the magnifier
- Wide dispersion of light
- Modern and ergonomic design
- 84 LED diodes, 14 W power
- Four levels of light intensity: 100%, 75%, 50%, 25%

MAGNIFICATION	3D (1,75 x) 5D (2,25 x)
LENS DIMENSIONS	178 mm
LENS TYPE	glass
ARM LENGTH	1120 mm
COLOR TEMPERATURE	6500 K

DAYLIGHT IQ ESD & UV MAGNIFIER, 3D/12D LENS



DA-E25101

DESCRIPTION

- The only magnifying glass on the market with both UV and LED lighting, - The left and right sides can be switched independently, - The magnifying glass is completely ESD - coated - both the lens glass and any other element,
- 2 - year warranty on any damage,
- Modern design, wide range of vision.
- Lighting: UV LED for controlling soldering connections
- 4 levels of light intensity

MAIN LENS MAGNIFICATION	3 dpt (1,75x)
ADDITIONAL LENS MAGNIFICATION	12D (4,0x)
MAXIMUM RANGE	1180 mm
ARM LENGTH	1120 mm
LENS SIZE	203 x 127 mm
COLOUR TEMP	6000 K
ILLUMINATION INTENSITY AT A DISTANCE OF 15CM	3800 Lux
LENS MATERIAL	glass



DIGITAL MICROSCOPE TAGARNO ZIP FHD



TG-MAGNUS-FHD-ZIP

DESCRIPTION

- Full HD technology ensures the highest image quality
- Maximum magnification: 48.1x
- Optical zoom: 30x
- Lens to object distance: min. 250 mm

STANDARD EQUIPMENT

- Digital microscope ZIP FHD
- XKEY Control box
- Lens: +4

MAGNIFICATION RANGE	1.6 - 48.1x (on 22" monitor)
WEIGHT	2,0 kg
AUTOFOCUS	Yes
MANUAL FOCUS	Yes
RESOLUTION	Full HD 1080p (1920 x 1080 – 60 Hz)
CONNECTORS	Micro-USB 3.0, Mini-HDMI
POWER CONSUMPTION	15 W

DIGITAL MICROSCOPE TAGARNO ZAP FHD



TG-MAGNUS-FHD-ZAP-FLEX

DESCRIPTION

- The perfect solution for visual inspection on production lines
- Maximum magnification: 116x
- Optical zoom: 30x
- Lens to object distance: adjustable
- Laser pointer

STANDARD EQUIPMENT

- Digital microscope ZAP FHD
- VESA mount
- Lens: +4

Version with FLEX ARM

TG-MAGNUS-FHD-ZAP-FLEX

MAGNIFICATION RANGE	1.6 - 116x (on 22" monitor)
WEIGHT	1,5 kg
AUTOFOCUS	Yes
MANUAL FOCUS	Yes
RESOLUTION	Full HD 1080p (1920 x 1080 – 60 Hz)
CONNECTORS	HDMI, USB 3.0
POWER CONSUMPTION	7,4 W

**TAGARNO MAGNUS ZAP FHD DIGITAL MICROSCOPE - SET****TG-MAGNUS-FHD-ZAP-MOVE****DESCRIPTION**

- Innovative video microscope using Full HD technology - the highest image quality
- Convenient viewing position - no operator fatigue
- VESA bracket included in the set, allowing the camera to be mounted on the shoulder anywhere
- MOVE power box expanding ZAP microscope capabilities with software installation

STANDARD EQUIPMENT

- Digital microscope ZAP FHD
- VESA handle
- XPLUS controller
- Flex Arm Advanced
- MOVE power box

MAXIMUM MAGNIFICATION	133 x (dla monitora 24" z opcjonalną soczewką +10)
WORKING DISTANCE (FROM THE TOP TO THE CAMERA)	100 - 500 mm
IMAGE PROCESSING	60 fps
AUTOFOCUS	Yes
CONNECTOR	USB 3.0
RECOMMENDED MONITOR	1920x1080p 24"
BASE	Adjustable

DIGITAL MICROSCOPE TAGARNO TREND FHD**TG-MAGNUS-FHD-TREND-BLACK****DESCRIPTION**

- An innovative video-microscope which uses Full HD technology
- Maximum magnification: 297x
- Optical zoom: 30x
- Lens to object distance: max. 335 mm

STANDARD EQUIPMENT

- Digital microscope TREND FHD
- Lens: +4

MAGNIFICATION RANGE	1.2x - 297.1x (on 22" monitor)
WEIGHT	6,8 kg
AUTOFOCUS	Yes
MANUAL FOCUS	Yes
RESOLUTION	Full HD 1080p (1920 x 1080 - 50/60 Hz)
CONNECTORS	HDMI
POWER CONSUMPTION	20 W



DIGITAL MICROSCOPE TAGARNO PRESTIGE FHD



TG-MAGNUS-FHD-PRESTIGE-BLACK

DESCRIPTION

- An innovative video-microscope which uses Full HD technology
- Maximum magnification: 590x
- Optical zoom: 30x
- Lens to object distance: max. 270 mm

STANDARD EQUIPMENT

- Digital microscope PRESTIGE FHD
- Lens: +4

MAGNIFICATION RANGE	1.6x - 591.4x (on 22" monitor)
WEIGHT	11 kg
AUTOFOCUS	Yes
MANUAL FOCUS	Yes
RESOLUTION	Full HD 1080p (1920 x 1080 – 50/60 Hz)
CONNECTORS	HDMI
POWER CONSUMPTION	20 W

TAGARNO 4K MICROSCOPE T50



TG-MAGNUS-4K-T50

DESCRIPTION

- Tagarno T50 4K microscope with motorized height adjustment, unique accessories and on - board apps for an extraordinary user experience.
- Tagarno T50 displays a truly live, near zero latency image with 4K/60 frames per second (FPS), providing a comfortable user experience by removing disorienting effects that can be felt when using lower frame rate cameras.
- This combined with an impressive 370 mm working depth, built - in vibration reduction features, automatic height adjustment and magnetic lenses creates a user experience never before seen within digital microscopy, no matter where or how you're using it.

CAMERA RESOLUTION	4K, 3840x2160 @ 60/50/30Hz, 8,5MP
OPTICAL ZOOM	Yes
MAGNIFICATION	2,8x - 62,2x
WORKING HEIGHT	195 mm
FIELD OF VIEW	from 9,6mm to 210 mm
MAGNIFICATION RANGE AVAILABLE	from 1,7x to 311x (depending on lens)
WORKING HEIGHT	from 34mm to 330mm
VIDEO OUTPUT INTEGRATED LIGHT	HDMI Yes
DIMENSIONS WEIGHT	H: from 390mm to 635mm, W: 320mm, D: 565mm 10,8 kg



TAGARNO ACCESSORIES



- Lens cover for +3, +4, +5 and +10
- Protects from scratches and keeps the lens clean
- Suitable for all TG digital microscopes



- Achromatic lenses +3, +4, +5 and +10
- Diameter: 58 mm
- Suitable for: FHD PRESTIGE, FHD TREND, FHD UNO



- +10 Lens (PLAN+1)
- Diameter: 58 mm
- For: MAGNUS FHD PRESTIGE, TREND, ZAP



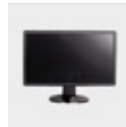
- Lenses with adapters:
+25 - magnification range 9.6x - 297.1x
+50 - magnification range 19x - 592x
- Diameter: 26 mm
- Suitable for: FHD PRESTIGE, FHD TREND



- Magnetic Ring Set for Lenses
- Includes 1 ring for +10 and 2 rings for other types
- For: TAGARNO TREND



- XKEY controller
- Controls magnification and focus of the image
- Suitable for: FHD TREND, FHD PRESTIGE, FHD UNO, FHD ZIP, FHD ZAP



- Monitor 22", 24"
- Format 16:9
- DVI and HDMI input
- Resolution: FHD 1080p



- Foot switch with zoom function
- Compatible with XKEY or XPLUS FHD control boxes
- Suitable for all TG digital microscopes



- Circular tilting table
- Allows for precise positioning of the observed object
- ESD safe surface
- Suitable for: FHD PRESTIGE, FHD TREND, FHD UNO, FHD ZAP



- Large built-in XY table
- Durable and stable construction
- Precise positioning of the observed object at high magnification
- Suitable for: FHD TREND, FHD UNO



- XPLUS FHD control box
- Control the microscope camera functions
- Access to the camera settings
- Suitable for: FHD PRESTIGE, FHD TREND, FHD UNO

APPLICATIONS FOR TAGARNO DIGITAL MICROSCOPES



- IMAGE ANALYSIS - PARTICLE ANALYZER
- The TAGARNO Particle Analyzer application is ideal for analyzing and validating sizes and shapes
- For: TAGARNO TREND and PRESTIGE



- IMAGE ANALYSIS - COLOR ANALYZER
- It's an excellent solution for sample color analysis. The application calculates the sample's average color value and displays previous results for easy comparison.
- For: TAGARNO TREND and PRESTIGE



- PNG REFERENCE
- Overlays an imported PNG file onto the microscope image, triggered via a button on the controller
- For: TREND, PRESTIGE and MOVE



- DXF OVERLAY
- The DXF Overlay application lets you control a sample using a DXF file displayed as an on-screen overlay. Simply add the file to view the sample and DXF simultaneously in real time.
- For: TREND, PRESTIGE and MOVE



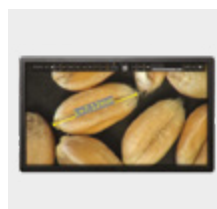
- IMAGE ANALYSIS - SPECK COUNTER
- The TAGARNO Speck Counter TAGARNO application is a new way of counting the sample particles with precise and automatic software
- For: TAGARNO TREND and PRESTIGE



- VERIFICATION LINES
- The VERIFICATION LINES application allows you to check the quality of objects by placing vertical and/or horizontal lines as layers on an object image
- For: TREND, PRESTIGE and MOVE



- IMAGE COMPARISON
- The TAGARNO image comparison application allows you to check the sample against the reference image in many ways directly from the TAGARNO digital microscope
- For: TREND, PRESTIGE and MOVE



- MEASUREMENT
- TAGARNO measurement app allows you to take precise measurements directly from your FHD digital microscope
- For: TREND, PRESTIGE and MOVE



VISION OPTA VISION SYSTEM



VI-OPTA

DESCRIPTION

- Vision OPTA is an economical solution based on the proven stereoscopic head known from the Mantis Compact model.
- One of the main advantages of the OPTA model is its ease of use. Installation is quick and intuitive, allowing users to start working almost immediately. Three stand variants are available, enabling height adjustment and providing appropriate stability depending on the specific needs. In addition, two lens options—4x and 6x—allow users to select the appropriate magnification level for the task at hand.
- The OPTA model is equipped with modern lighting consisting of 20 LEDs, producing light with an intensity of 9400 lx and a color temperature of approximately 7000 K. This setup ensures optimal lighting conditions for obtaining clear and detailed images of the observed objects.
- OPTA is a solution aimed at professionals who value high quality, ergonomics, and a wide range of configuration options. Thanks to its thoughtful design, advanced technology, and efficient lighting, the device meets the expectations of even the most demanding users.

SELECTABLE LENS:	4X and 6X
SELECTABLE STAND	Universal, Semi-Round, Rectangular
FIELD OF VIEW PER LENS	4X: 27,5 mm 6X: 19,2mm
WORKING DISTANCE PER LENS	4X: 96mm 6X: 73mm

STEREOSCOPIC MICROSCOPES

- Attractively priced solutions with wide expansion options and a broad range of accessories (lighting, measuring tables, adapters, focusing and reticular eyepieces)
- Microscope series with a third eyepiece for digital camera connection and models with long-lasting, cool top lighting
- Large, smoothly adjustable working distance and freely adjustable head (45° tilt, 360° rotation)
- With the optional equipment, you can achieve magnification of up to 224x
- Models with backlighting of observed objects, built into the base

TRINOCULAR STEREO MICROSCOPE T-44P-LED



CA-DSZT-44P-LED

STEREO MICROSCOPE 44P-LED



CA-DSZ-44P-LED

MODEL	DSZ-44P-LED	DSZT-44P-LED
CAT. NO.	CA-DSZ-44P-LED	CA-DSZT-44P-LED
EYEPIECE	Wide angle	
DIOPTRIC ADJUSTMENT FIELD OF VIEW	+5,6D - 7,2D for both eyepieces From 23 mm to 5,2 mm	
WORKING DISTANCE INTERPUPILLARY DISTANCE	90 mm 52 - 75 mm	
INCIDENT LIGHTING	LED ringlight (CA-LED-60T)	
BASE DIMENSIONS	220 x 284 mm	
HEIGHT	353 mm	327 mm
THIRD EYEPIECE	No	Yes



CARTON 44P STEREO MICROSCOPE DOUBLE ARM BOOM STAND - SERIES 44



CA-DSZ-44P-DBS-LED

CARTON T-44P TRINOCULAR STEREO MICROSCOPE DOUBLE ARM BOOM STAND - SERIES 44



CA-DSZT-44P-DBS-LED

CARTON STEREO MICROSCOPE WITH DOUBLE ARM BOOM STAND - SERIES 50



CA-SPZ-50P-DBS-LED

CARTON TRINOCULAR STEREO MICROSCOPE WITH DOUBLE ARM BOOM STAND - SERIES 50



CA-SPZT-50P-DBS-LED

MODEL	DSZ-44P-DBS-LED	DSZT-44P-DBS-LED	SPZ-50P-DBS-LED	SPZT-50P-DBS-LED
CATALOGUE NUMBER	CA-DSZ-44P-DBS-LED	CA-DSZT-44P-DBS-LED	CA-SPZ-50P-DBS-LED	CA-SPZT-50P-DBS-LED
MAGNIFICATION RANGE IN THE STANDARD VERSION	10 - 44x		6,7 - 50x	
DIOPTRIC CORRECTION	±7.2D on both eyepieces	±7.2D on both eyepieces 12 mm vertical adjustment	±7.2D on both eyepieces	±7.2D on both eyepieces 4 mm vertical adjustment
FIELD OF VIEW	From 23 mm to 5,2 mm		From 34,3 mm to 4,6 mm	
WORKING DISTANCE	90 mm		108 mm	
INTERPUPILLARY DISTANCE ADJUSTMENT	52 - 75 mm			
TOP ILLUMINATION	LED illumination: CA-LED-60T			
BASE DIMENSIONS	220x284 mm			
HEIGHT	326 mm	352 mm	326 mm	
SET INCLUDES	Dual-arm stand with holder, top LED illumination, rubber eyepiece guards, dust cover			


CARTON STEREO MICROSCOPE WITH STAND – SERIES 50


CA-SPZ-50P

DESCRIPTION

- Magnification range in the standard version: 6.7x - 50x
- The width of the base: 220x284mm
- Large (infinitely adjustable) distance between the lens and the object being observed
- Ergonomic design, allows for comfortable observation
- Free head adjustment - 45° angled tube with 360° rotation possibility
- The design allows the installation of lighting
- Favourable price/performance ratio
- Stable and comfortable base

OPTIONAL EQUIPMENT

- Adapters
- Cameras
- Lenses
- Focusing glasses
- Lighting
- Stands and tables

CARTON TRINOCULAR STEREO MICROSCOPE – SERIES 50


CA-SPZT-50P

DESCRIPTION

- Magnification range in the standard version: 6.7x - 50x
- Third ocular allows for connecting of a camera (not included)
- The width of the base: 220x284mm
- Large (infinitely adjustable) distance between the lens and the object being observed
- Ergonomic design, allows comfortable observation
- Free head adjustment - 45° angled tube with 360° rotation possibility
- The design allows the installation of lighting
- Working distance: 108 mm
- Tubus inclined at 45° with 360° of rotation
- Favourable price/performance ratio
- Stable and comfortable base

STANDARD EQUIPMENT

- Eyepiece head
- Table with stand
- Rubber eyepiece covers
- Cover

MODEL	SPZ-50P	SPZT-50P
CATALOGUE NUMBER	CA-SPZ-50P	CA-SPZT-50P
MAGNIFICATION RANGE IN THE STANDARD VERSION	6.7x - 50x	
EYEPIECE	Wide-field 10x (DHW10X), FN23	
OBJECTIVES	0.67x - 5x (zoom ratio: 7.5:1)	
OPTICAL BODY	Tubus inclined at 45° with 360° of rotation	Trinocular type, 360° rotatable, tubes inclined at 45°, vertical C-mount tube
REGULACJA DIOPTRII	±7.2D on both eyepiece tubes	±7.2D on both eyepiece tubes and 4 mm on the vertical tube
ADJUSTABLE EYEPIECE SPACING	52 mm - 75 mm	
WORKING DISTANCE	108 mm	
STATYW (WYSOKOŚĆ)	Pillar type (356 mm)	
THE WIDTH OF THE BASE	220 mm × 284 mm	



CARTON WHITE LED RING ILLUMINATOR WITH 7-STEP LIGHT ADJUSTMENT



CA-LED-60T

SPECIFICATION

- White lighting - LED ring
- 7 - level intensity adjustment
- Approximately 10000 hours of activity (not guaranteed)
- No color temperature changes
- Flicker free

RETICULAR FOCUSING EYEPIECE



SPECIFICATION

CAT. NO.	MAGNIFICATION	SCALE	DESCRIPTION
CA-DFSW10XCROSS	10x	10:100 mm	Scale with cross line
CA-DFSW10XLine		-	Cross line
CA-DFSW10XH10/20		-	Grid:: 20:20 mm Raster: 0.5 mm
CA-DFSW10XH5/5		-	Grid:: 5:5 mm Raster: 1 mm
CA-DFSW10X10/100		10:100 mm	-
CA-DFSW10X5/100		5:100 mm	-

FOCUSING EYEPIECES



SPECIFICATION

CAT. NO.	MAGNIFICATION	FIELD OF VIEW	COMPATIBILITY
CA-DHW10X	10x	23 mm	T-44/NSW
CA-DHW15X	15x	15 mm	SPZ-50/ SPZT-50
CA-DHW20X	20x	11,4 mm	SPZ-50/ SPZT-50
CA-DSW10X	10x	23 mm	44/T-44/NSW
CA-DSW10XZ	10x	20 mm	70/T-70
CA-DSW15X	15x	15 mm	44/T-44/NSW/70/T-70
CA-DSW20X	20x	11,4 mm	44/T-44/NSW

AUXILIARY OBJECTIVE LENSES



1.6x

SPECIFICATION

CAT. NO.	MAGNIFICATION
CA-NSAL1,6X	1,6x
CA-NSAL2X	2x
CA-NSAL0,75X	0,75x
CA-NSAL0,5X	0,5x



SCANNING ELECTRON MICROSCOPES (SEM)

- Scanning Electron Microscopes (SEM) are advanced instruments used for imaging and analyzing samples at a microscopic level of detail. They use an electron beam instead of light, which enables higher resolution and greater depth of field compared to traditional optical microscopes. Below are some key facts about scanning electron microscopes:
 - Operating principle:
SEM works by scanning a sample with a focused beam of electrons. The electrons are generated in an electron source, accelerated, and directed onto the surface of the sample. When the electron beam hits the sample, interactions occur, resulting in the emission of various types of electrons (reflected, scattered, and secondary). These electrons are collected and processed to generate a detailed image of the sample surface
 - Resolution and detail:
SEM provides extremely high image resolution, allowing the observation of microstructures, submicrostructures, and fine surface details. SEM resolution ranges from tens of nanometers to a few picometers, making it an ideal tool for studying material microstructures, surface topography, nanostructures, and many other applications.
 - Chemical analysis:
In addition to imaging, SEM enables chemical analysis through a technique known as energy-dispersive X-ray spectroscopy (EDS or EDX). The EDS detector collects information from X-ray emissions generated by interactions between the electron beam and the sample. These data can be used to identify chemical elements and analyze the chemical composition of the sample
 - Typical applications:
SEM is used in a wide range of fields, including natural sciences, materials science, electronics, medicine, geology, archaeology, and industry. It is commonly employed for surface morphology studies, defect analysis, microstructure examination, nanostructure observation, particle analysis, and more.
 - Sample preparation:
Proper sample preparation is crucial when working with SEM. Samples typically need to be coated with a thin conductive layer—such as gold or graphite—to ensure effective electron conductivity.

SNE 4500M PLUS A/B SCANNING ELECTRON MICROSCOPE



SX-SNE 4500M PLUS A/B

SNE 4500M SCANNING ELECTRON MICROSCOPE



SX-SNE 4500M

MODEL	SNE 4500M PLUS A	SNE 4500M PLUS B	SNE 4500M
CATALOG NUMBER	SX-SNE 4500M PLUS A	SX-SNE 4500M PLUS B	SX-SNE 4500M
MULTI-DETECTOR	SE/BSE		-
AUTO-CALIBRATION	Sharpness, contrast, brightness		
MAGNIFICATION	150 000 x		20 x - 100 000 x
ACCELERATING VOLTAGE	1-30 kV (1/5/10/15/20/30)		
DETECTOR	Secondary Electrons (SE)	Secondary Electrons (SE) / Backscattered Electrons (BSE)	Secondary Electrons (SE)
SAMPLE HOLDER TRAVEL RANGE	5-Axis System X, Y Axes: 40 mm / R Axis: 360° Z Axis: 0-35 mm / Tilt Angle: 0-45°		
IMAGE SHIFT	± 150 µm		
MAX. SAMPLE SIZE	80 mm (Diameter) x 35 mm (Height)		
IMAGE FORMAT	BMP, JPEG, PNG, TIFF		
VACUUM MODE	High vacuum	High vacuum (low vacuum option available)	
VACUUM PUMP	Rotary pump Turbo molecular pump (Fully automated)		
DIMENSIONS: MAIN UNIT	390 x 380 x 560 mm (weight: 88 kg)		
DIMENSIONS: CONTROL UNIT	390 x 325 x 560 mm (weight: 97 kg)		
DIMENSIONS: ROTARY PUMP	400 x 160 x 340 mm (weight: 24 kg)		



SEC X-EYE 5100F X-RAY INSPECTION SYSTEM



SX-5100F

X-EYE SF160 INSPECTION SYSTEM



SX-SF160

- X - eye 5100F is a high performance X - ray inspection system for non - destructive analysis and fault diagnosis
- A 100kV micro - focus lamp and a high - resolution flat detector on the X - eye 5100F guarantee high quality images even at high magnification
- With the multi - axis control system, the X - eye 5100F can easily examine objects at any magnification. Auto - learning function makes it ideal as a semi - automatic quality control system
- The X - eye 5100F is equipped with user - friendly operating software that includes measurement tools and making comments
- The micro - focus X - ray lamp installed in the device with a power of 100kV and a high - resolution flat detector guarantee the highest image quality
- Simple operation and trouble - free maintenance of the device is very user - friendly. The device also offers the possibility of expansion with additional functions depending on the customer's needs and budget
- External radiation: <1usv/H
- Real - time analysis
- Function to store parameters and operating mode choices
- Management of access rights
- Automatic histogram function
- Software for filtering and correcting image distortion

- 2D and 3D Micro-Computed Tomography
- A high-performance, open-type 160 kV micro-focus X-ray tube enables detection of even the smallest defects as small as 0.9 μm, providing high-resolution imaging with unmatched magnification ranges
- A dual CT (computed tomography) function—available as an optional feature—allows for precise defect localization, size estimation, and defect type analysis
- Hybrid X-ray tube with a filament lifespan of over 10,000 rg.
- Non-destructive inspection of semiconductors, SMT, and electronic components
- Dual CT function

MODEL	X-EYE 5100F	X-EYE SF160
CATALOGUE NUMBER	SX-5100F	SX-SF160
X - RAY LAMP	100 kV / 200 μA	160 kV / 200 μA (Optional 160 kV/500 μA)
FOCAL POINT	5 μm	0,8/0,9 μm
TABLE SIZE	460 x 340 mm 550 x 550 mm	460 x 510 mm (Optional: 650 x 550 mm)
AXES	X, Y, Z, Tilt (Max. 70°), R, Y - aft Cone Beam R	
DETECTOR RESOLUTION	FPD 2304 x 1300	FPD 1280 x 1280
TECHNOLOGY	2D only	Oblique Beam CT Cone Beam CT
MAX. POWER	20 W 26 W	32 W 80 W
DIMENSIONS	1,270 x 1,020 x 1,460 (**Weight** : 720kg)	1,340 x 1,460 x 1,670 (**Weight** : 2,000kg)



OFFLINE X-RAY SMD COMPONENT COUNTER



DESCRIPTION

- High performance and precision
- Software with built-in AI function, which can quickly and accurately calculate the number of components on a roll
- High-resolution inspection image
- Possible integration into ERP/MES/WMS systems for real-time operation - Automatic label printing
- Significantly reduces the working time of component counting and improves working efficiency
- Compared to a traction counter, there is no need to unpack and unroll rolls of components
- Suitable for all types of components such as CHIP, SMD above 01005
- Counting accuracy reaches over 99.99%.
- Possibility to work in automatic mode - Provides customised solutions to meet specific inspection requirements

MODEL	XC1000	XC1100
CAT. NO.	SMK-XC1000	SMK-XC1100
TYPE OF RADIATION SOURCE	Closed X-Ray source	
VOLTAGE	30 - 80 kV	
CURRENT	200 - 700 μ A	
MAXIMUM POWER	56 W	
FOCAL LENGTH	30 - 40 μ m	100 μ m
TYPE OF DETECTOR	TFT Industrial dynamic FPD	
PIXEL MATRIX	3072 \times 3072 px	
FIELD OF VIEW	427 \times 427 mm	
RESOLUTION	3,5 LP/mm	
FRAME RATE	2	
DIMENSIONS	1800 mm \times w 1280 mm \times h 2169 mm	
INPUT POWER	230V/10A 50 - 60 Hz	
MAXIMUM SAMPLE SIZE	450 \times 450 mm	
OPERATING SYSTEM	Windows 7 / (Windows 10 optional)	
NET WEIGHT	800 kg	
EMISSION RADIATION	<1 μ Sv/h	

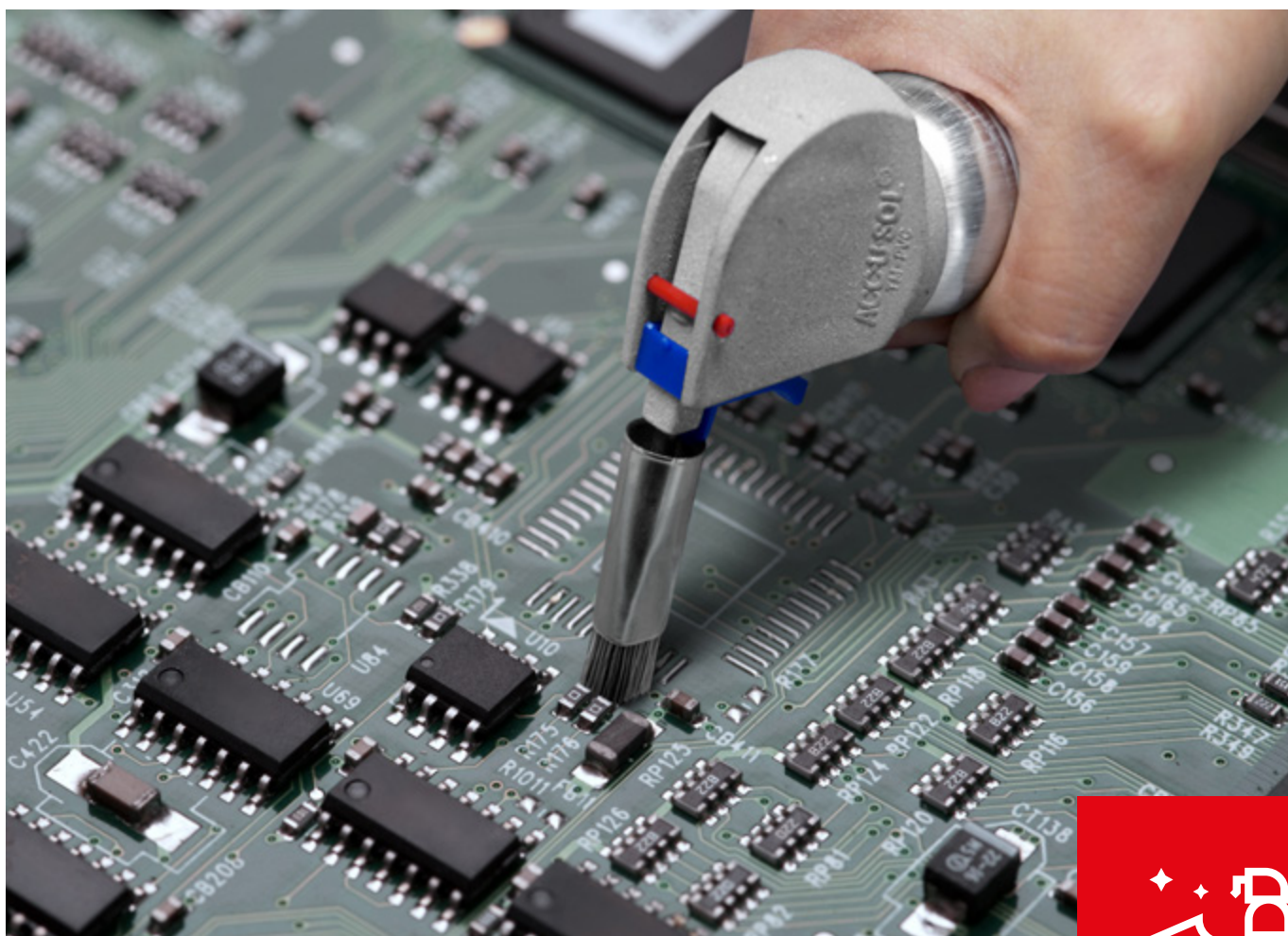
NEW IN THE RENEX OFFER – RENTAL OF SEAMARK SMD COMPONENT COUNTER

As an authorized distributor of the Seamark brand, RENEX offers customers the possibility to rent a professional SMD component counter – for inspection, production, or inventory purposes.

Contact your RENEX Technical and Sales Advisor for information on rental terms and device availability.

NOTES SECTION

A large grid of small dots for taking notes, consisting of 20 columns and 30 rows.



CLEANING AGENTS AND EQUIPMENT

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M1000 AUTOMAT FOR PCBA CLEANING



IM-7000-0003

DESCRIPTION

- Capacity: 48 boards, dimensions: 340 x 260 mm
- Maximum PCB size: 340 x 260 mm
- 4 standard washing programs
- Easy to use
- Automatic control of contamination level
- Possibility of washing misprinted PCBs
- Low operating costs

M2000 CLEANING SYSTEM



IM-7000-0004

DESCRIPTION

- Capacity: 170 boards with dimensions: 340 x 260 mm
- Maximum PCB size:
 - Upper shelf: 200 x 438 mm
 - Lower shelf: 260 x 438 mm
 - Without upper shelf: 510 x 438 mm
- Microprocessor control
- Intuitive operation
- Option to use mains water supply with deionizer
- Cycle data printout capability
- Low operating costs

MODEL	IM-7000-0003	IM-7000-0004
CLEANING TEMPERATURE	20°C – 70°C	
CLEANING TIME	5 – 40 min	
RINSE TEMPERATURE	20°C – 70°C	
CYCLE LENGTH	2 - 10 min	
RINSE CYCLE	0 - 5	0 - 6
HOT AIR DRYING TEMPERATURE	50°C – 100°C	
POWER SUPPLY	230 V	
POWER CONSUMPTION	2,1 kW	3,0 kW
RUNNING NOISE	55 dB(A)	
WATER CONSUMPTION PER FILLING	3L	5 - 6L
DIMENSIONS OF THE PCB BASKET	39 x 38 cm	
MAX. PCB DIMENSIONS (WITH THE BASKET) / (IN THE FRAME)	490 mm x 250 mm / 405 mm x 503 mm	340 x 260 mm
DIMENSIONS	52 x 55 x 69 cm	90 x 60 x 78 cm
WEIGHT	40 kg	80 kg



RECO ULTRASONIC CLEANERS



DESCRIPTION

- Ultrasound power and temperature of washing liquid set in real time
- The duration of the process is set in the range from 0 to 99 minutes
- Temperature control of washing liquid (in case of overheating the process stops until the liquid cools down)
- Beep a minute before the end of the process and at the end of the process
- Low cost of ownership (modular construction of the cleaner enables exchange of any component)
- Durable and homogeneous housing made of acid-resistant sheet
- Deepest tank in this class of devices: 200 mm
- High efficiency of ultrasound transmission
- Each cleaner equipped with a lid and a pump that pumps the fluid

APPLICATION

- Electronic – any contamination, dirt from PCBs and component cleaning
- Medicine – dental and surgical tools cleaning
- Dentistry and prosthetics – dental plates and clamps cleaning
- Jewellery – jewellery cleaning
- Watch-making – clocks mechanisms cleaning
- Optic – precise glasses cleaning without taking out lenses from holders, objectives and lenses
- Gunsmith – weapons cleaning
- Mechanic – cleaning of carburetors, bearing, injectors, etc.
- Numismatics - exhibits from polishing paste cleaning
- Laboratories – cuvettes and equipment cleaning (eg. glass sampling pipettes)



MODEL	US100	US200	US300	US400	
CAT. NO.	RE-US100	RE-US200	RE-US300	RE-US400	
POWER SUPPLY	230 V / 50 Hz				
MAX. POWER OF GENERATING ULTRASOUNDS	100 W	200 W	400 W	800 W	
MAX. POWER OF HEATING ELEMENT	300 W	500 W	1000 W	2400 W	
CAPACITY OF WASHING TANK	MAXIMUM	7,3 L	12 L	26 L	52 L
	OPTIMAL	6 L	10 L	22 L	40 L
INTERNAL TANK DIMENSIONS	32,5 x 17,6 x 20 cm	35,5 x 26,5 x 20 cm	53 x 32,5 x 20 cm	61 x 47 x 20 cm	
UNIT DIMENSIONS	18,8 x 36 x H 35 cm	27,8 x 36,5 x H 35 cm	57,5 x 35,5 x H 35 cm	70 x 55 x H 35 cm	



BASKET FOR ULTRASONIC CLEANER REECO RE-US200



RE-US200-KOSZ

BASKET FOR ULTRASONIC CLEANER REECO RE-US300



RE-US300-KOSZ

BASKET FOR ULTRASONIC CLEANER REECO RE-US400



RE-US400-KOSZ

DESCRIPTION

- Made of acid-proof steel (mesh + wire)
- Durable and solid construction
- High quality
- They enable washing details without the need of hand contact with the washing medium
- Protect the tank from mechanical damage
- Handles for easy removal of the basket from the tank
- Specially made feet ensure proper insulation of washed items away from the sediment at the bottom of the tank

MODEL	US200	US300	US400
CATALOG NUMBER	RE-US200-KOSZ	RE-US300-KOSZ	RE-US400-KOSZ
MESH SIZE	approx. 10 x 10 mm		
BASE DIMENSIONS	220 x 150 mm	240 x 430 mm	430 x 415 mm
HEIGHT	165 mm		160 mm

DETERGENTS FOR ULTRASONIC CLEANERS



DT-348/DT-C55S

DESCRIPTION

- Liquids for ultrasonic cleaners
- Recommended for removing any contamination from PCBs



UNIVERSAL CONTACT CLEANER



DESCRIPTION

- Non - combustible and non - conductive
- Quick - drying, safe for plastics and rubber parts, general purpose cleaner
- Removes dust, fluxes, light oils and greases
- Compatible with TriggerGrip

MCC-CCH107

SUPRCLEAN



DESCRIPTION

- Perfect for all rosin-based fluxes
- Due to high effectiveness, testing on soft plastics is recommended
- TriggerGrip compatible

MCC-SPR

FLUX REMOVER C

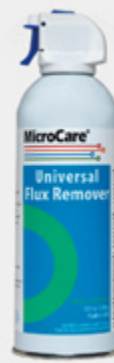


DESCRIPTION

- Suited for cleaning „no-clean“ and most water-soluble fluxes
- Removes grease, oils, inks
- TriggerGrip compatible

MCC-FRC

UNIVERSAL FLUX REMOVER



DESCRIPTION

- Removes residues of fluxes, pastes, grease, oils, silicone
- Quick drying
- Plastic safe with excellent material compatibility
- TriggerGrip compatible

MCC-UFR107

ULTRACLEAN

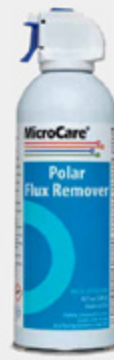


DESCRIPTION

- Removes rosin-based fluxes, pastes, and silicone residues
- Highly-effective on „No Clean“ fluxes
- Non-chlorinated / halogenfree cleaner
- TriggerGrip compatible

MCC-VOC107

POLAR FLUX REMOVER



DESCRIPTION

- Cleans heavy, aged flux residues
- Removes polar and ionic activators
- TriggerGrip compatible

MCC-PFR10A

VERICLEAN



DESCRIPTION

- Effective on „No-Clean“ fluxes and pastes
- Dissolves silicone coatings, oils, adhesives, oils and grease residues
- Available also in economy size
- TriggerGrip compatible

MCC-DC1

PROCLEAN



DESCRIPTION

- Universal cleaning agent (alcohol-based, without water)
- Removes most rosin-based and „No-Clean“ fluxes
- Available also in economy size
- TriggerGrip compatible

MCC-PRO



ISOCLEAN



DESCRIPTION

- Universal cleaning agent, isopropanol based (no water content)
- Very effective in removing impurities from heads in audio-video equipment and „No-Clean” fluxes
- TriggerGrip compatible

MCC-BAC

REFLOW OVEN CLEANER

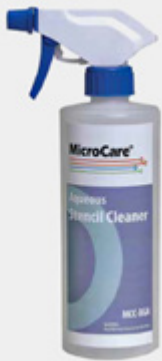


DESCRIPTION

- Melts away burned-on flux residues from wave solder machines and reflow ovens
- Water based, works up to four times faster than isopropanol

MCC-ROC

STENCIL CLEANER



DESCRIPTION

- A powerful cleaner, removes all types of solder paste from PCB boards and stencils
- Suitable for use in ultrasonic cleaners (without preheating)

MCC-BGA

CIRCUIT CHILLER



DESCRIPTION

- Enables quick location of circuit breaks on the PCB
- Effective freezing to - 45°C
- Non - flammable
- It leaves no contamination

MCC-FRZ107

FLUX REMOVER



DESCRIPTION

- The strongest cleaner available on the market
- Easily removes: residues of all fluxes, greases, oils, fats, inks, etc.
- Compatible with TriggerGrip

MCC-PW3

DUST REMOVER



DESCRIPTION

- Dry circuit cleaner that blows dust and grit from keyboards, machinery and circuitry
- High pressure
- Nonflammable

MCC-DST107



CLEANING SOLUTIONS SELECTION GUIDE													
	PowerClean	SuprClean	Flux Remover C	Universal Flux Remover	UltraClean	Polar Flux Remover	VeriClean	ProClean	IsoClean	Stencil Cleaner	Reflow Oven Cleaner	Universal Contact Cleaner	TidyPen
Lead-free flux residues	•	◇				•	◇						
No-Clean flux residues			•		•	•	•	◇	•				
Rosin-based fluxes	◇	•	◇	•	◇	◇							
Water-based fluxes						◇		•	◇				
Removing stickers and markers													•
Cleaning electrical contacts			◇									•	
Silicone coatings	◇			◇	◇		•						
Epoxy resins and system connectors		◇					•						
Cleaning stencils										•			
Flux residues (reflow ovens)											•		

◇ Approved for use | • Best to use

SPECIFICATION													
	PowerClean	SuprClean	Flux Remover C	Universal Flux Remover	UltraClean	Polar Flux Remover	VeriClean	ProClean	IsoClean	Stencil Cleaner	Reflow Oven Cleaner	Universal Contact Cleaner	TidyPen
Cleaning potency	5	5	4	4	4	5	3	2	1	-	4	1	4
Scent	5	5	5	2	3	4	4	2	1	2	2	5	1
Evaporation time	5	4	4	5	3	1	3	2	1	1	3	5	3
Environmental impact	4	4	4	3	1	4	5	3	2	3	3	3	2
Safe to use on plastics	1	2	3	3	2	4	5	5	5	3	2	5	1

1 - low | 5 - very high / perfect



FLOOR DETERGENT



IT-7805870

DESCRIPTION

- Dewaxing alkaline detergent have to be used the first time, before applying the coating on the floor
- It removes quickly multiple coats of wax and embedded dirt
- It is suitable on PVC, Rubber and Hard floors
- Weight: 5 kg
- Appearance: pale yellow colour liquid
- PH: 13
- Biodegradability: over 90%

FLOOR DETERGENT



IT-7805873

DESCRIPTION

- Low foaming-agent detergent with highly concentrated active substances and reduced alkalinity, normally used for floor cleaning
- This detergent is free of silicone or polishing additives, so it does not change the static-dissipative characteristics of the ESD surfaces both vinyl, rubber, paint or wax
- Weight: 5 kg
- Appearance: green colour liquid
- PH: 9
- Biodegradability: over 90%

PRESATURED CLEANING WIPES



DESCRIPTION

- Wipes dimensions: 20 x 12 cm | Pieces per package: 100 pcs.

MODEL	APPLICATION	CAT. NO.
ProClean	For quickly removing soldering pastes, including lead-free	MCC-PROW (Container & Wipes)
		MCC-PROWR (Refill Wipes Only)
MultiClean	For removing soldering pastes, fluxes, fingerprints and light oils	MCC-MLCW (Container & Wipes)
		MCC-MLCWR (Refill Wipes Only)
ESD	For cleaning ESD equipment: mats, containers, tables, tool racks from residues of flux, glue, dirt and oils	MCC-ECOOW (Container & Wipes)
		MCC-ECOOWR (Refill Wipes Only)

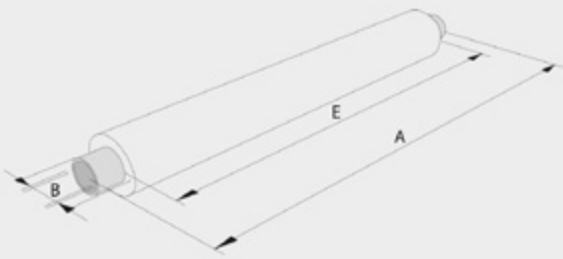
LINT-FREE DRY WIPES



FABRIC	ABSORPTIVITY	DIMENSIONS/PIECES	CAT. NO.
Synthetic polymer	445 ml/m ²	15 x 15 cm / 50 pcs.	MCC-W66DF-OP
Polyester and cellulose	320 ml/m ²	15 x 15 cm / 50 pcs.	MCC-W66-OP
Polyester	320 ml/m ²	15 x 15 cm / 300 pcs.	MCC-W66CP-OP
Polyester and cellulose	313 ml/m ²	21 x 28 cm / 100 pcs.	MCC-W11-OP
Polyester and cellulose	320 ml/m ²	30 x 40 cm / 50 pcs.	MCC-W12-OP
Polyester and cellulose	320 ml/m ²	23 x 23 cm / 300 pcs.	MCC-W99-OP
Synthetic polymer	445 ml/m ²	23 x 23 cm / 300 pcs.	MCC-W99CP-OP



SMT STENCIL ROLLS



A	E	B	LENGTH	CAT. NO.
420 mm	420 mm	23 mm	30 m	RE-ROL-YA-420
375 mm	370 mm	18 mm	12 m	RE-ROL-PAN-370
530 mm	515 mm	18 mm	10 m	RE-ROL-DEK-515
530 mm	490 mm	18 mm	9 m	RE-ROL-DEK-490
540 mm	400 mm	20 mm	9 m	RE-ROL-DEK-400

TRIGGERGRIP



MCC-ESD

DESCRIPTION

- Dispenser for different cleaning solutions
- Ensures 50% savings of the used cleaning agent
- Full protection against ESD

TIDYPEN



MCC-TIDYPEN

DESCRIPTION

- Perfect for removing glue residue from tape, labels resistant to pressure, paper labels, EPROM labels and kapton tapes residue
- Pen-style dispenser with a clip
- Easy and convenient to use
- Removes corrosion from gold-plated points on PCBs

BRUSHES FOR TRIGGERGRIP



SPECIFICATION

CAT. NO.	DESCRIPTION
MCC-RBNB	Tip with natural bristle. Standard TriggerGrip equipment
MCC-RBNB2	Slo-Flo tip with natural bristle
MCC-SMB	Standard tip for cleaning PCBs
MCC-SR35	Tip with a 0.35 mm diameter needle

BENCH MOUNTING KIT



MCC-BK

DESCRIPTION

- Two-piece mount keeps the aerosol can from tipping over and falling
- Mounting ensures that the cans will be emptied completely
- ESD safe
- Organises the work bench



DISSIPATIVE BRUSHES 6511



- Length: 124 mm
- Handle: 106 mm, Ø: 11.5 mm
- Bristle's length: 18 mm

CATALOG NUMBER

RE-HM-6511

DISSIPATIVE BRUSHES 6520



- Length: 99 mm
- Handle: 82 x 42,5 x 9,8 mm
- Bristle's length: 20 mm

CATALOG NUMBER

RE-HM-6520

DISSIPATIVE BRUSHES 6513



- Length: 170 mm
- Handle: 38 x 13 x 8,4 mm
- Bristle's length: 16 mm

CATALOG NUMBER

RE-HM-6513

DISSIPATIVE BRUSHES 6518 | 6519



- Length: 142 mm | 167 mm
- Handle: 117 x 47 x 8 | 142 x 60,6 x 8
- Bristle's length: 25 mm

CATALOG NUMBER

RE-HM-6518 / RE-HM-6519

MICROCARE WS501 SWAB



- Antistatic cleaning swab
- Head size: 6 mm x 16 mm
- Handle length: 14 cm

CATALOG NUMBER

MCC-WS501-R

MICROCARE WS101 SWAB



- Antistatic cleaning swab
- Head size: 19 mm x 22 mm
- Handle length: 14 cm

CATALOG NUMBER

MCC-WS101

MICROCARE WS-104 SWAB



- Antistatic cleaning swab
- Head size: 4 mm x 19 mm
- Handle length: 11 cm

CATALOG NUMBER

MCC-WS104

MICROCARE WS-201 SWAB



- Antistatic cleaning swab
- Head size: 16 mm x 25 mm
- Handle length: 13 cm

CATALOG NUMBER

MCC-WS201

ESD BROOM

RE-BSJ-130

DESCRIPTION

- Construction: ESD PP
- Length: 130 cm
- Resistance: $10^4 - 10^6$ Ohm
- Permanent ESD version

ESD SCRUB BRUSH

RE-BS-J111

DESCRIPTION

- Construction made of PP
- Bristles made of polyester
- Dimensions: 140 x 45 x 7cm
- Resistance: $10^4 - 10^6$ Ohm
- For scrubbing all types of floors
- Characterised by very high durability.

ESD DUSTPAN, BLUE

RE-HM-9204070

DESCRIPTION

- Construction: ESD PP
- Size: 270 x 900mm
- Resistance: $10^4 - 10^6$ Ohm
- Permanent ESD version

HAND ESD VACUUM CLEANER 220V

IT-7913050

DESCRIPTION

- ESD handheld vacuum cleaner designed for use in EPA zones
- Made entirely of conductive material (compliant with IEC 61340-5-1)
- Compact, lightweight design with carrying strap for convenience
- Equipped with thermal switch and RFI/EMC filter
- ESD bags sold separately

**REECO ESD VACUUM CLEANER, HEPA FILTER**

RE-BS-J-82

DESCRIPTION

- ESD - protected design
- Capacity: 35 litres
- Ideal for large areas
- Anti - static brush for cleaning both floors and worktops
- Wide range of tips
- EMI/RFI filters
- Ideally suited for use in the Cleanroom
- Equipped with castors

POWER CORD LENGTH	4000 mm
HOSE LENGTH	1500 mm
EXTENSION LENGTH	480 mm
SUCTION POWER	18 Kpa
SOUND LEVEL	82 dBa
SURFACE RESISTANCE	10 ⁵ - 10 ⁶ Ohm

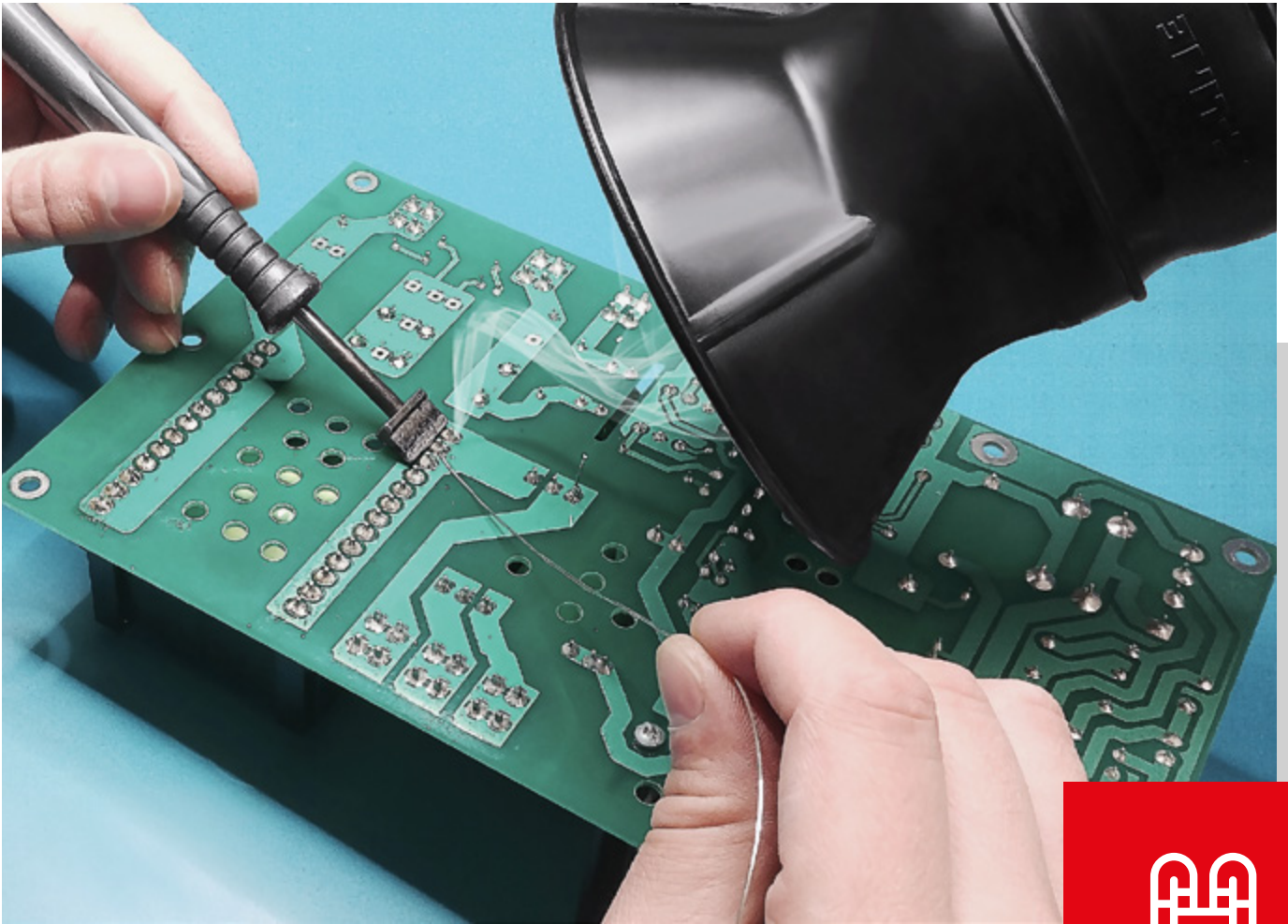
REECO ESD VACUUM CLEANER- 15L

RE-BS-J-05A

DESCRIPTION

- Versatile: Ability to vacuum in both dry and wet modes.
- Great for cleaning hard surfaces, but also carpets and removing liquids.
- Efficiency: 1200W motor provides plenty of suction power for effective cleaning.
- Safety: The built - in HEPA filter ensures effective air filtration, eliminating dirt and dust particles.
- Ergonomics and mobility: Equipped with a long flexible hose, extensions and wheels for easy manoeuvrability in workspaces.
- Safe use: the hoover is suitable for use in electrostatic charge (ESD) controlled environments, which ensures safety when vacuuming sensitive electronic devices.

POWER CORD LENGTH	4000 mm
POWER	1200 W
VOLTAGE	230 V, 50 Hz
FUNCTIONS	Wet and dry suction
FILTER	HEPA
CAPACITY	15 litres



FUME EXTRACTION SYSTEMS

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PAGE ARM-EVAC 105 FUME EXTRACTOR



PA-88880105

DESCRIPTION

- Extraction system for 1 or 2 positions
- Distance from the workstations - up to 2.5 m from the extractor
- Can be placed on or under the table
- Quiet and easy to carry
- Effective removal of fumes and vapours from the work area
- Effective particulate removal
- Airflow (standard filter): single inlet – 220 m³/h
- Can be used in CleanRooms
- Wide selection of filters for specific applications

POWER REQUIREMENTS	230 V, 50 Hz
DIMENSIONS	500 x 290 x 290 mm
WEIGHT	11,5 kg
NOISE LEVEL	55 dB
NUMBER OF INLETS	2 szt. - Ø75 mm
NUMBER OF WORKSTATIONS	2
MAXIMUM DUCT RUN	2,5 mm (each channel)

PAGE ARM-EVAC 200 FUME EXTRACTOR



PA-88890200

DESCRIPTION

- Lightweight and compact system for up to 4 workstations
- Designed to meet the needs of light-duty production as well as rework and repair operations
- Low noise level (58 dBA)
- Compatible with a number of accessories
- Optional silencer / mobile cart available
- Numerous filtration options (Cleanroom Filter, Extended Life Filter, Economy Filter, etc.)
- Multiple configuration options to suit your work space



PAGE ARM-EVAC 250 FUME EXTRACTOR



PA-88890250

DESCRIPTION

- High-capacity fume extractor for up to 4 workstations
- Ideal for heavy-duty operations that need continuous particle filter monitoring
- Microprocessor technology
- Filter monitoring system self calibrates using a membrane keypad on the front panel and an audible alarm alerts the operator when a filter change is required
- Flow sensors increase power to the motor as filters become blocked to assure peak performance
- Easy-to-read graphical LED filter condition monitor changes from green to yellow to red as the filter becomes clogged
- Three-position motor speed button
- Wide variety of collection accessory options and filters available
- Optional silencer / mobile cart available

MODEL	ARM-EVAC 200	ARM-EVAC 250
POWER REQUIREMENTS	230 V, 50 Hz, 1,3 A	230 V, 50 Hz, 3 A
DIMENSIONS	393 x 282 x 365 mm	393 x 282 x 365 mm
WEIGHT	13,75 kg	14 kg
NOISE LEVEL	58 dB	58 dB
NUMBER OF INLETS	2 szt. - Ø 75 mm	2 szt. - Ø 75 mm
NUMBER OF WORKSTATIONS	45 mm i 50 mm - 4 pcs. 65 mm i 75 mm - 2 pcs.	45 mm i 50 mm - 4 pcs. 65 mm i 75 mm - 2 pcs.
MAXIMUM DUCT RUN	5m per inlet	

PCE SILENCER CART



PA-88851225

DESCRIPTION

- Constructed of 18-gauge steel and acoustical foam baffle liner to decrease noise generation
- Silencer doubles as a mobile cart
- Includes front locking casters
- For ARM-EVAC 200 and ARM EVAC 250



PACE ARM-EVAC 150 FUME EXTRACTOR WITH ELASTIC ARM



PA-88890155

DESCRIPTION

- Arm - Evac 150 economic vapour absorption system with flexible SteadyFlex arm made of antistatic materials and 3 - stage filtration
- Control panel lock prevents unauthorized changes in settings
- Total operating hours counter displays the operating hours of the device
- Wide range of filter options
- Low profile and compact design
- Fume extraction for up to 2 operators (additional SteadyFlex arm with head required)
- Reliable, brushless motor pump reduces high maintenance costs
- Robust steel construction and lockable casters for easy relocation
- Excellent performance and quiet operation
- Digital control panel with clear display
- Wireless remote control included
- 10 airflow speed settings

POWER	230 V, 50 Hz, 3 A
DIMENSIONS	305x305x423 mm
WEIGHT	9 kg
NOISE LEVEL	<53 dbA (50% of engine speed)
SINGLE INLET	approx. 260 m ³ /h
MAX. NUMBER OF ARMS	2
AIR FLOW	single inlet - about 260 m ³ /h, double inlet - about 150 m ³ /h

FILTER TYPES FOR PACE ARM-EVAC SERIES

FILTER TYPE	FILTER EFFICIENCY RATING	RECOMMENDED APPLICATION
Pre-filters	90 % / EU4	Recommended for use with all filtration systems
Economy Filters	N/A	Ideal for applications where coarse dust is generated
General Purpose Filters	85% / EU8	Recommended for soldering applications where normal volumes of fumes are being generated for 1 or 2 shifts (.2-80 microns)
Cleanroom Filters	99,99% / EU13	Recommended for applications in Cleanroom environments or where the highest filtration efficiency is required (.2-2 microns)
High Capacity Filters	85% / EU8	Recommended for soldering applications where heavy volumes of fumes are generated or where operations are running 3 shifts
Adhesive Filters	N/A	Recommended for any bench-top application utilizing adhesives, solvents, or cleaners used in small quantities and not in open containers or "baths"

WYBIERZ FILTR

The following chart is a quick reference guide for PACE Filtration Systems. Simply select your fume extraction central filtration unit and the type of filter you need to identify the part number of the filter. (Red part numbers indicates standard primary filter in Central Filtration Unit).

SYSTEM	PRE-FILTER	HIGH CAPACITY PRE-FILTER	GENERAL FILTER	CLEANROOM FILTER	CARBON FILTER	ADHESIVE FILTER
ARM-EVAC 50	PA-88830125	N/A	PA-88830280	PA-88830290	N/A	-
ARM-EVAC 105	PA-88830112	PA-88830986*	PA-88830932	PA-88830921	N/A	PA-88830952
ARM-EVAC 200	PA-88830112	PA-88830986*	PA-88830932	PA-88830921	N/A	PA-88830952
ARM-EVAC 250	PA-88830112	PA-88830986*	PA-88830932	PA-88830921	N/A	PA-88830952
ARM-EVAC 500	PA-88830145	N/A	PA-88830955	PA-88830965	PA-88830956	N/A

* High Capacity Pre-filters must be used in combination with a High Capacity Filter. When filters need to be replaced, simply remove them from the Fume Extractor and replace with a new one. Disposal of filters should be done in compliance with local environmental regulations.



PAGE ESD 75MM SAFE FLEX-ARM KIT



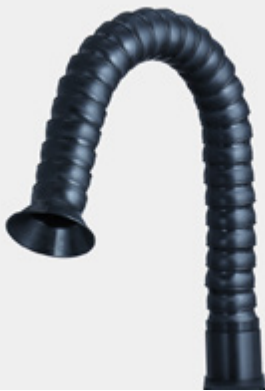
PA-88860765

DESCRIPTION

- Contains everything needed to mount an ESD Safe Flex-Arm to a workbench:

ESD Safe Flex-Arm of 915 mm	PA-88860750
Bench Mounting Bracket	PA-88860770

PAGE 75MM ESD SAFE FLEX-ARM



PA-88860750

DESCRIPTION

- Length: 915 mm
- Diameter: 75 mm
- Standard Endpiece: Round
- Mounting: Directly onto Fume Extractor or uses optional Bench Mounting Bracket

PAGE 75MM FLEX-ARM BENCH MOUNTING BRACKET KIT



PA-88860745

DESCRIPTION

- Includes:

2.5 m of 75 mm ESD Safe Flex Hose	PA-88860770
-----------------------------------	-------------

PAGE 75MM OPTIONAL ENDPIECES



A

B

C

D

DESCRIPTION

A: Round Endpiece	PA-88860792
B: Collection Tube Endpiece	PA-88860794
C: Cowl Endpiece	PA-88860793
D: Scoop Endpiece	PA-88860937



PAGE ESD 50MM STATIC-SAFE FLEX-ARM



DESCRIPTION

A: Static-Safe Flex-Arm of 610 mm	PA-88820415
B: Static-Safe Flex-Arm of 915 mm	PA-88820435

PAGE BENCH MOUNTING BRACKET 50 MM



PA-88860552

DESCRIPTION

- Designed for System 50
- Compatible with ARM-EVAC 50

PAGE FUME EXTRACTION CONNECTORS AND ENDCUFFS



DESCRIPTION

A: 75 mm Y connector	PA-88820691
B: 75 mm to 50 mm reducer endcuff	PA-88820775
C: 75 mm endcuff	PA-88820776



JBC FAE1/FAE2 SYSTEMS

FAE is the most effective solution to prevent exposure to soldering fumes. These kits include all the necessary components to integrate a fume extraction system into the workstation.

HIGH-EFFICIENCY FILTERS FOR CAPTURING EVEN THE FINEST PARTICLES

- M5 pre-filter – Captures larger solid particles to protect the H13 or H14 filter and extend its lifespan.
- HEPA H13 or H14 filters – Trap remaining solid particles.
 - HEPA H13 filter – Efficiency for MPPS* = 99.95% (in accordance with EN 1822).
 - HEPA H14 filter – Used where exceptionally clean air is required, such as in cleanroom environments. Efficiency for MPPS* = 99.995% (in accordance with EN 1822).
- Activated carbon filter – Absorbs gas molecules that the HEPA filter cannot retain due to their size, using its highly porous structure.

SMART-CONTROLLED FUME EXTRACTION

- Selective operation – The FAE unit runs only during soldering; it activates when the tool is lifted, extending the lifespan of both the device and filters.
- Integrated extraction system – The stand features an innovative extraction system that automatically captures fumes once the tool is returned to the holder.
- Filter saturation indicator – The device has an LED light that indicates the status of the pre-filter or compact filter. If connected to a station, a warning message will also appear on the station's display.
 - Green - Filter OK
 - Yellow - ≤ 20% carbon life remaining or filter nearing saturation
 - Red - End of carbon life or filter saturated

FUME EXTRACTOR FOR 1 WORKBENCH



JBC-FAE1-2C

DESCRIPTION

- FAE1 is the most effective solution to avoid exposure to solder fumes. The extractor activates and operates only when soldering.
- The extractor starts up only when soldering. This function not only saves power, but also extends the life span of the equipment, including the filter.
- FAE1 stand has an integrated vacuum system that detects when the tool is at rest and automatically absorbs excess fumes.
- FAE1 provides direct connection of up to 4 soldering or rework stations and an additional 4 fume extraction stands.
- It can be controlled via JBC Stations, a pedal, a robotic system or a PC.
- It has 3 predefined levels of aspiration: low, medium and high. It also features a custom mode where the airflow can be set within the minimum (10%) and maximum rates (100%).

FUME EXTRACTOR FOR 2 WORKBENCHES



JBC-FAE2-5B

DESCRIPTION

- FAE is the most effective solution to avoid exposure to solder fumes. The extractor activates and operates only when soldering.
- The extractor starts up only when soldering. This function not only saves power, but also extends the life span of the equipment, including the filter.
- FAE2 stand has an integrated vacuum system that detects when the tool is at rest and automatically absorbs excess fumes.
- FAE2 provides direct connection of up to 4 soldering or rework stations and an additional 8 fume extraction stands.
- It can be controlled via JBC Stations, a pedal, a robotic system or a PC.
- It has 3 predefined levels of aspiration: low, medium and high. It also features a custom mode where the airflow can be set within the minimum (10%) and maximum rates (100%).

MPPS (Most Penetrating Particle Size) refers to the particle size at which a filter is least efficient. The MPPS value depends on the type of filter and airflow rate but typically falls within the range of 0.1–0.3 μm.



FUME EXTRACTOR FOR 1 WORKBENCH - SET



JBC-FAE1-2K1C

DESCRIPTION

- FAE1 is the most effective solution to avoid exposure to solder fumes. The extractor activates and operates only when soldering.
- The extractor starts up only when soldering. This function not only saves power, but also extends the life span of the equipment, including the filter.
- FAE1 stand has an integrated vacuum system that detects when the tool is at rest and automatically absorbs excess fumes.
- FAE1 provides direct connection of up to 4 soldering or rework stations and an additional 4 fume extraction stands.
- It can be controlled via JBC Stations, a pedal, a robotic system or a PC.
- It has 3 predefined levels of aspiration: low, medium and high. It also features a custom mode where the airflow can be set within the minimum (10%) and maximum rates (100%).

SET CONTENTS

- Fume extractor
- Filter
- Flexible arm with clamp
- Flexible arm
- Foot controller

PRE-FILTER FOR FAE1 FUME EXTRACTOR



JBC-FAE1-110

DESCRIPTION

- Replacement for pre - filter.
- JBC Fume Extractor FAE1 - 2B features a compact three - layered filter
- The combination of the three - layered filter system reaches a certified filtering efficiency of the soldering fumes up to 99.95 per cent in accordance with norm EN 1822.
- The unit has a LED warning to know when it is time to replace the pre - filter or the compact filter. It is also notified through the unit display.
- *Supplied in boxes of 5 units

FILTER FOR FAE1 FUME EXTRACTOR



JBC-FAE1-100

DESCRIPTION

- JBC Fume Extractor FAE1 - 2B features a compact three - layered filter
- This replacement for Compact Filter includes Hepa Filter, Carbon Filter and Pre - filter FAE1 - 110
- The combination of the three - layered filter system reaches a certified filtering efficiency of the soldering fumes up to 99.95 per cent in accordance with norm EN 1822
- The unit has a LED warning to know when it is time to replace the pre - filter or the compact filter. It is also notified through the unit display.



PRE-FILTER FOR FAE2 FUME EXTRACTOR

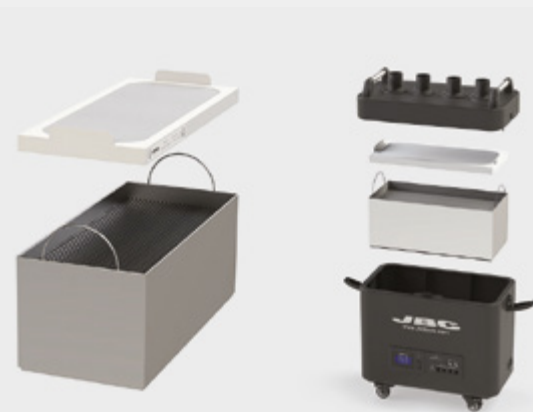


JBC-FAE2-110

DESCRIPTION

- Replacement for pre - filter.
- JBC Fume Extractor FAE2 - 5B features a compact three - layered filter
- The combination of the three - layered filter system reaches a certified filtering efficiency of the soldering fumes up to 99.95 per cent in accordance with norm EN 1822.
- The unit has a LED warning to know when it is time to replace the pre - filter or the compact filter. It is also notified through the unit display.
- *Supplied in boxes of 5 units

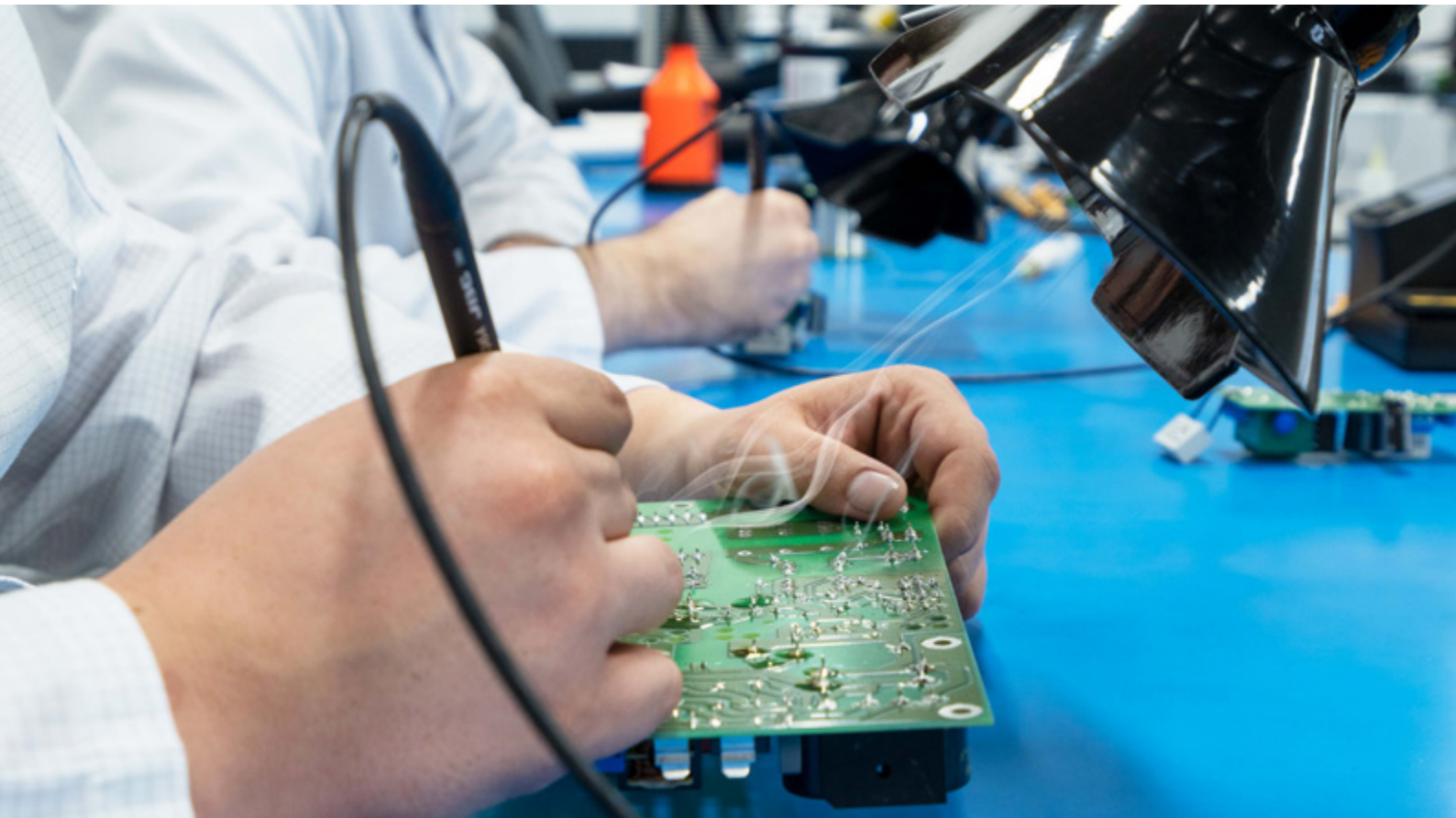
FILTER FOR FAE2 FUME EXTRACTOR



JBC-FAE2-100

DESCRIPTION

- JBC Fume Extractor FAE2 - 5B features a compact three - layered filter
- This replacement for Compact Filter includes Hepa Filter, Carbon Filter and Pre - filter FAE2 - 110
- The combination of the three - layered filter system reaches a certified filtering efficiency of the soldering fumes up to 99.95 per cent in accordance with norm EN 1822
- The unit has a LED warning to know when it is time to replace the pre - filter or the compact filter. It is also notified through the unit display.





REECO FUME AND SMOKE ABSORBER

REECO fume extraction systems are designed to reduce harmful pollutants in the work environment in order to achieve the prescribed health and safety requirements

The Reeco fume absorber can be easily mounted on any workbench, because it is equipped with two arms, it allows you to easily protect two workplaces, which - taking into account the length of the arms - may be separated from each other by up to two and a half meters.

The Reeco Fume Extractor is equipped as standard with a universal combination filter with a 3 - stage filtration process, consisting of a

pre - filter for the removal of coarse particles, an additional filter in the cartridge for effective pre - filtration and a HEPA main filter for the removal of microparticles.

The device is operated, apart from the main panel, with a wireless remote control, which increases ergonomics and does not require the user to bend under the table each time the device is turned on or change settings (including 10 airflow modes). Additionally, the system is equipped with a filter condition monitor and an alarm to warn the user of limited operation or the need to replace the filter

FUME EXTRACTOR REECO ESD SAFE



RE-FCE-001

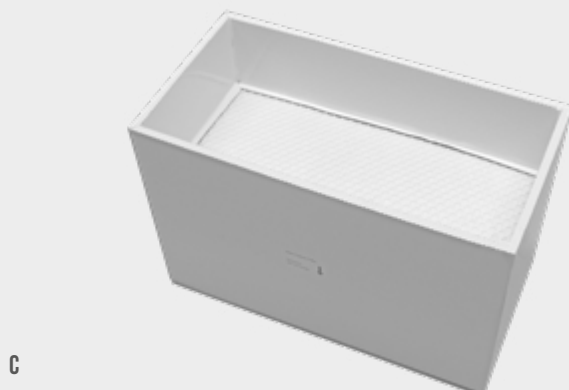
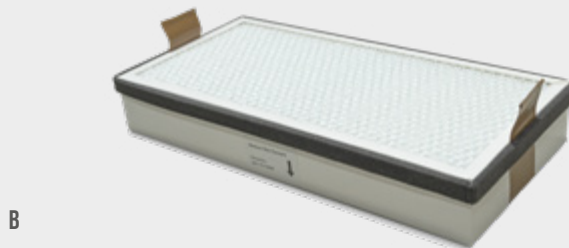
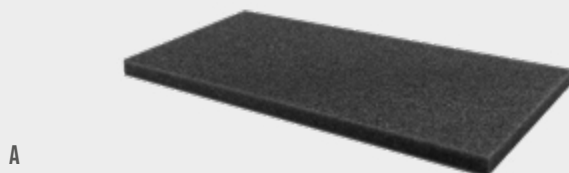
DESCRIPTION

- ESD Safe
- Durable steel housing construction and durable motor pumps for many years of trouble free operation
- Inexpensive, easy - to - replace, disposable filter cartridges
- Excellent performance and quiet operation
- Mobile

SET CONTAINS

- Main unit
- Two arms 1400mm long and 60mm in diameter
- A set of filters
- Remote

FILTERS FOR FCE-001 FUME EXTRACTOR



DESCRIPTION

A: Pre-filter for FCE-001 Fume Extractors

RE-FCE-002

DIMENSIONS

365 x 5 x 180 mm

B: Medium Filter for Reeco Fume Extractor

RE-FCE-003

- Intermediate/fine filter designed for further filtration of small particles such as plant pollen, fungal spores, smog, bacteria, and partially - viruses
- Service life: 2 to 3 months (depending on environmental conditions such as temperature, humidity, and dust levels)

DIMENSIONS

365 x 55 x 175 mm

CLASS

F8

C: Main Carbon filter for Reeco Fume Extractor

RE-FCE-004

- High-efficiency main carbon filter designed to capture microparticles such as smoke, fumes, and fine particles down to 0.3 µm
- Service life: 3 to 6 months (depending on environmental conditions such as temperature, humidity, and dust levels)

DIMENSIONS

385 x 250 x 195 mm

CLASS

H11



ALSIDENT FUME EXTRACTION SYSTEMS ESD/EX 50/75/100

Alsident is unrivaled producer of extraction arms and cabinets.

Alsident systems were designed to extract gas, fumes, odours, dust and other hazardous substances. Additional equipment such as nozzles, tubes and many types of brackets and columns is also available.

HIGHEST QUALITY

Arms are made of highest quality, acid-proof materials according to ESD/EEEx standars (dependngly on the model). Quiet performance is another advantage of these systems.

SELF SUPPORTING CONSTRUCTION

This construction constitutes a very user-friendly fume extraction arm that is easy to adjust to the source of the pollutant during the work process. Both operation and maintenance are very easy.

TABLE, WALL OR CEILING MOUNTED

Assembly and disassembly are very easy and require no tools.

WIDE RANGE OF REDUCERS

Reducers are used to connect arms to ventilation system of diameter from 50 mm to 125 mm.

ALSIDENT ESD/EEEX SYSTEM 50 FLEX/50/75/100



DESCRIPTION

- Used in various industries, e.g. electronics, chemistry, pharmacy, automotive, aerospace, etc.
- Approved for use in ESD areas according to IEC 61340-5-1, IEC 61340-4-1, IEC 13463-1:2001, IEC 61340-4-1:2003

AIR TEMPERATURE RANGE	-15°C to +90°C		
MATERIAL	Chromated aluminium (TCP)		
JOINTS	Conductive polypropylene (PP)		
MOUNTING	Table, wall, ceiling, furniture		
AIR FLOW EFFICIENCY	45 - 85 m³/h System 50	80 - 180 m³/h System 75	140 - 400 m³/h System 100

ALSIDENT ALUMINIUM SYSTEM 50/75/100



DESCRIPTION

- Used in environments with no special demands for chemical resistance or conductivity

AIR TEMPERATURE RANGE	-15°C to +90°C		
MATERIAL	Anodized aluminium		
JOINTS	Polypropylene (PP)		
MOUNTING	Table, wall, ceiling, furniture		
AIR FLOW EFFICIENCY	45 - 85 m³/h System 50	80 - 180 m³/h System 75	140 - 400 m³/h System 100

ALSIDENT CHEMICAL RESISTANT SYSTEM 63/75/100



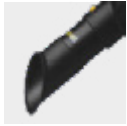
DESCRIPTION

- Designed for work with aggressive chemical substances
- Particularly recommended for chemical and pharmaceutical laboratories
- Ideal as a complement to analytical instruments, weighing equipment, stirrers, and in production processes

AIR TEMPERATURE RANGE	-15°C to +90°C		
MATERIAL	Polypropylene (PP)		
JOINTS	Polypropylene (PP)		
MOUNTING	Table, wall, ceiling, furniture		
AIR FLOW EFFICIENCY	60 - 120 m³/h System 63	80 - 180 m³/h System 75	140 - 400 m³/h System 100



ALSIDENT ACCESORIES



- Suction tubes
- Recommended for small concentrated sources of pollution
- Efficient as it gets close to the source without obstructing the work process



- Round Hoods
- For light fumes, gases and small open vessels
- Increased efficiency at an angled position
- Increased stability due to reinforced rim of the hood



- Table brackets



- Ceiling columns
- Four lengths available: 250, 500, 750, 1000, 1250, 1500, 1750, 2000 mm
- White or black



- Square Hoods
- For both light and heavy fumes, gases and for open vessels, as this hood is suited for horizontal position above and vertical position behind the source of pollution



- Flat Hood
- Especially suited for heavy fumes and gases
- High efficiency when placed vertically on a surface e.g. a table

ALSIDENT SYSTEM 25 WORK CABINETS - TYPE 1



DESCRIPTION

- Structure made of transparent PETG
- Inspection window providing good visibility
- Aluminum edge reinforcements
- Option to connect an extractor unit

CAT. NO.	DIMENSIONS (CM)	OPENING (CM)	HEIGHT OF SIDE PANELS (CM)	AIR VOLUME (M ³ /H)
AL-25-106020-4/-5	100 x 60 x 41	72 x 16	20	220
AL-25-106050-4/-5	100 x 60 x 71	71,5 x 46	50	550
AL-25-106075-4/-5	100 x 60 x 96	71,5 x 71	75	850

ALSIDENT SYSTEM 25 WORK CABINETS - TYPE 2



DESCRIPTION

- Thermoformed cabinet of transparent PETG with safety glass window
- Aluminium support brackets at the edges

CAT. NO.	DIMENSIONS (CM)	OPENING (CM)	COLOUR	AIR VOLUME (M ³ /H)
AL-25-604535-0-5	63,5 x 48 x 35	51,5 x 14,5	Transparent	117
AL-25-604535-0-7-4	63,5 x 48 x 35	51,5 x 14,5	White	117
AL-25-604535-0-7-5	63,5 x 48 x 35	51,5 x 14,5	White	117

ALSIDENT SYSTEM 25 WORK CABINETS - TYPE 3



DESCRIPTION

- The top made of transparent PETG
- Sides are made of white powder coated steel
- Mainly use for works with substances of intensive smell
- Possibility of connecting the extraction arm

CAT. NO.	DIMENSIONS (CM)	OPENING (CM)	HEIGHT OF SIDE PANELS (CM)	AIR VOLUME (M ³ /H)
AL-25-4030	42 x 32 x 51,5	33,5 x 39,5	40	204



RECO WRIST STRAP RESISTANCE MONITOR



DESCRIPTION

- Made from high-precision electronic components
- Fast, small, lightweight and easy to use
- Automatically warns when a personal grounding system fails and monitors the anti-static wrist straps in real time
- Guarantees safe grounding of wrist straps in anti-static safety areas

CAT. NO.	RE-HM-518-1	RE-HM-518-2
TYPE	Single	Double
INPUT VOLTAGE	220 - 230V AC	
OUTPUT VOLTAGE	0,3A	
POWER	1,8 W	
DIMENSIONS	61 x 58 x 28 mm	110 x 58 x 28 mm
WEIGHT	62 g	110 g
ACCURACY	1,4MΩ ± 5%	
RESPONSE TIME	< 20 ms	

TEKMATRIX 32 HUMIDITY/TEMPERATURE MONITOR



IT-8105113E

DESCRIPTION

- Simultaneously monitors humidity and temperature on a large display
- Alerts engineers when set HIGH or LOW limits are exceeded
- Internal datalogger stores data for transfer via USB or Ethernet (LogManager software included)
- Display can show RH/T continuously or alternate with date and time
- Sensor can be mounted on the display or placed externally

Humidity/Temperature TEKMATRIX 32 (Ethernet)	IT-8105113E
Humidity/Temperature TEKMATRIX 32 (USB)	IT-8105113U

HUMIDITY	1 to 95%RH
TEMPERATURE RANGE	-20°C to +60°C resolution: 0.1°C
LED DISPLAY	190 x 190 mm
MEMORY	21600 samples
INTERFACE	USB + Ethernet
DIMENSIONS	∅ 300 x 40 mm

HUMIDITY / TEMPERATURE PEN



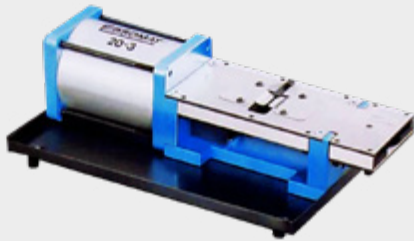
IT-9265200

DESCRIPTION

- This pen continuously and simultaneously displays both RH and °F/°C with dual-recall memories.
- Memory displays highest and lowest humidity/temperature readings
- Temperature: 0 to +50
- Resolution 0,1°C
- Relative humidity: 20 to 98%



E20-1 & E20-3 CUTTING AND FORMING MACHINE

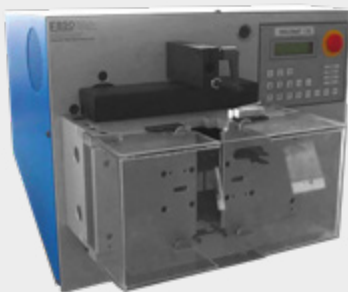


EB-E20-1/20-3

DESCRIPTION

- Base machine works pneumatically and can be equipped with a cutting plate or a support plate for forming tools
- Cutting plates for 2, 3, 4, 5 mm cut lengths are available (other sizes also available)
- Tooling is available for a large variety of transistor and capacitor forming and cutting configurations
- Lead diameter: max. 0.9 mm
- Production rate: max. 2000 cph
- Pressure: 6 bar

E120 CUTTING AND FORMING MACHINE



EB-E120

DESCRIPTION

- Automatic operation of this machine is particularly well suited for cutting and bending of power transistors of type TO 126/TO 220 ISOT
- Suitable for medium to high quantities
- Feed from sticks or loose components with a bowl feeder
- Easy tool changeover
- Easy and comfortable operation
- Stress relief tooling prevents component damage
- Production rate: max. 3600 cph

E33-1 CUTTING AND FORMING MACHINE



EB-E33-1

DESCRIPTION

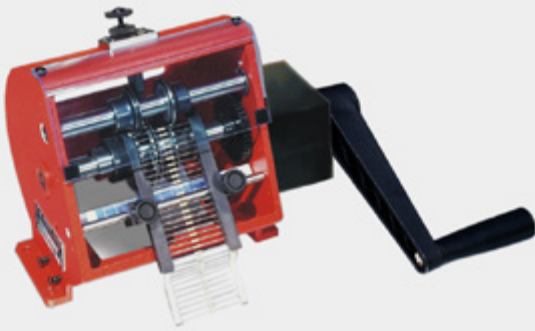
- Trimmer for radially taped components
- Interchangeable transport discs allow working with different pitch dimensions
- Cutting length directly and easy to adjust
- Maintenance-free through a robust construction
- Leads diameter: max. 1.3 mm
- Production rate:
 - 40000 cph (manual operation)
 - 60000 cph (motorized)

**E400 CUTTING AND FORMING MACHINE**

EB-E400

DESCRIPTION

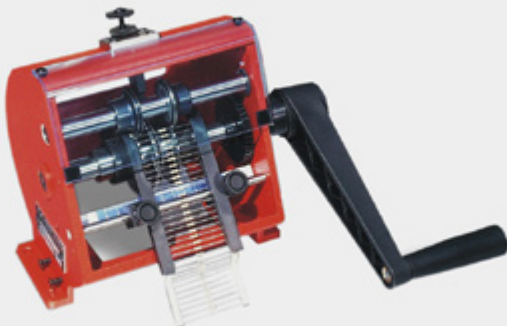
- No mechanical stress of components due to interchangeable cutting, bending and forming
- Gradual adjusting of the cutting units realizes an „overbending‘ of the wire-components by more than 90°
- Bending components are supplied with a special roller design, so that the components can not be damaged by overbending
- Pitches and length of the connecting wires can be adjusted gradually
- Already the standard tooling allows the processing of the components either in horizontal or vertical mode
- Gradual adjusting of speed
- Leads diameter: 0.4 - 0.8 mm (optional 0.9 - 1.0 mm)
- Production rate:
 - 10000 cph (manual operation)
 - 14000 cph (motorized)

SUPERFORM-VP CUTTING AND FORMING MACHINE

IT-7915108A

DESCRIPTION

- Machine made for cutting and bending axial taped components for vertical mounting
- Leads diameter: 0.5 - 0.8 mm (optional 0.8 - 1.0 mm)
- Production rate:
 - from 3000 cph(manual)
 - up to 40000 cph (automatic)

SUPERFORM-V CUTTING AND FORMING MACHINE

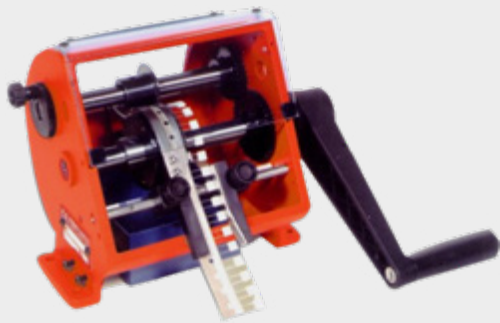
IT-7915101B

DESCRIPTION

- Machine made for cutting and bending axial taped components for vertical mounting
- Leads diameter: 0.5 - 0.8 mm
- Production rate:
 - from 3000 cph(manual)
 - up to 40000 cph (automatic)



SUPERFORM-R CUTTING MACHINE



DESCRIPTION

- Machine made for cutting radial taped components such as capacitors, transistors and stand-off resistors
- Leads diameter: 0.3 - 1.0 mm
- Production rate:
 - from 3000 cph (manual)
 - up to 20000 cph (automatic)

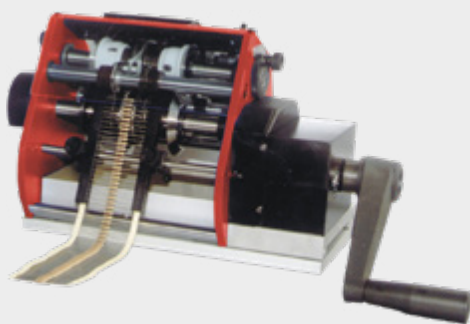
(Standard Version) SUPERFORM/R P=12.7 mm

IT-7915113A

(Standard Version) SUPERFORM/R P=15 mm

IT-7915113B

SUPERFORM-AF CUTTING AND FORMING MACHINE

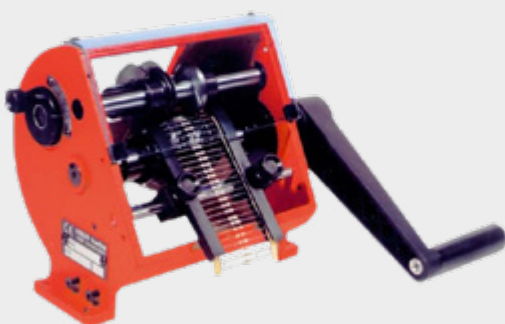


IT-7915095

DESCRIPTION

- Machine designed to cut, bend and preform axial components
- An innovatory preforming system, fully mechanic, allows the rotation of the central feed to stop while two preforming assemblies grip the component leads and preform the leads according to the chosen dies.
- The components are in this way first cut and 'U' bent to the dimensions previously set and then the preforming is made
- Leads diameter: 0.5 - 0.8 mm (optional: 0.6-0.9 mm; 0.8-1.0 mm; 1.0-1.3 mm)
- Production rate:
 - from 1000 cph (manual)
 - from 8000 cph (automatic)

SUPERFORM-A CUTTING AND FORMING MACHINE



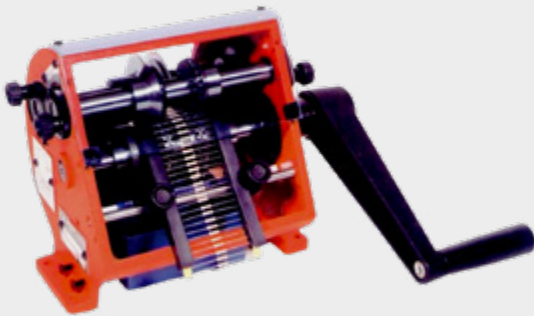
IT-7915100A

DESCRIPTION

- Machine made for cutting and bending axial taped components,
- It's tracking wheels are adjustable independently to allow rapid setup at different for ms
- Leads diameter: 0.4 - 1.3 mm (optional: 0.6-1.4 mm; 0.8 mm; 0.4-0.6 mm)
- Production rate:
 - from 3000 cph (manual)
 - from 20000 cph (automatic)



SUPERFORM-AP CUTTING AND FORMING MACHINE

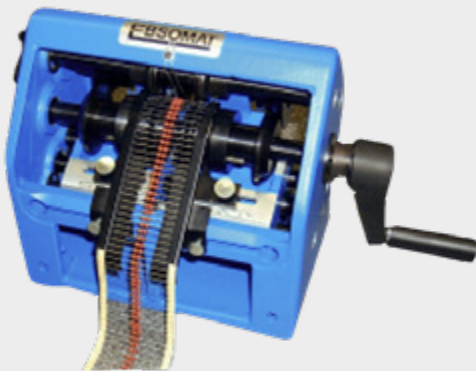


IT-7915102A

DESCRIPTION

- Machine made for cutting and bending axial taped components for vertical assembling, and shaping a little curl on each lead
- It is possible to obtain an U-shape without curls
- Leads diameter: 1 - 1.4 mm
- Production rate:
 - from 3000 cph (manual)
 - up to 20000 cph (automatic)

E40-2 / E40-3 CUTTING AND FORMING MACHINE

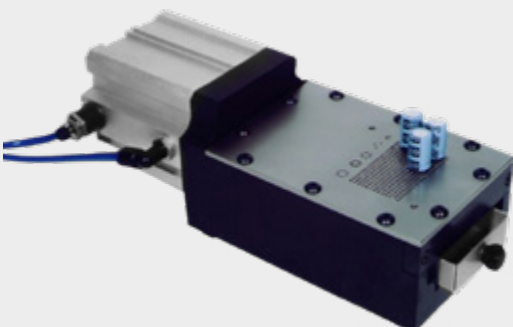


EB-E40-2/40-3

DESCRIPTION

- Capable of forming and trimming axial components and jumpwires to various configurations
- Left and right cut length are independently adjustable
- Extremely easy to operate. Adjustment of pitch dimension and cut length requires no tools
- Dial adjustable pitch dimension is easy and precise
- Designed to cut stamp and bend axial leader components for both horizontal and vertical mounting Capable
- Suitable length and required pitch of the leads can be adjusted by adjusting screws
- Machine can be re-set for the different tools manufactured to meet customers' requirements
- Taped components can be processed automatically with continuously variable processing speed
- Leads diameter: 0.3 - 0.8 mm (optional 0.3 - 1.3 mm)
- Production rate:
 - from: 40000 cph (manual)
 - up to 70000 cph (automatic)

SUPERCUT/LN5 | LN5L CUTTING MACHINE



IT-7915041

DESCRIPTION

- This pneumatic machine is designed to cut/trim almost every type radial lead components
- The guillotine cutting system, with zero clearance between the plates, guarantees a sharp and precise cut without burrs or damage to the leads
- It is possible to cut many components at the same time without any risk of wear of the blades
- The machine can be supplied with special cutting
- Production rate: max. 3000 cph
- Pressure: 6 ATM



SUPERCUT CUTTING MACHINE



IT-7915148N

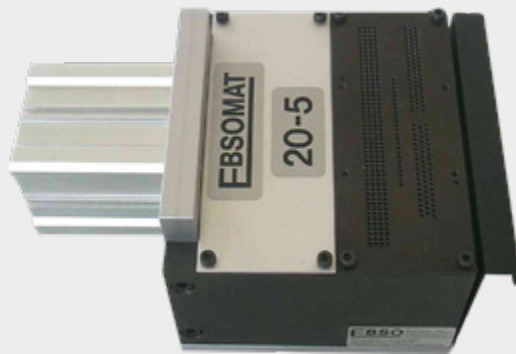
DESCRIPTION

- Machine made for cutting radial loose components and, with an optional adapter, also taped components
- There is an optional adapter for radial taped components
- The transfer speed is adjustable
- Leads diameter: 0.4 - 0.8 mm
- Production rate: max. 15000 cph

SUPERCUT, 230 V - 50/60 Hz

IT-7915148N

E 20-5 CUTTING MACHINE



EB-E20-5

DESCRIPTION

- Cutting machine for D-SUB connectors and connectors
- Flexible and cost effective
- Basic pneumatic machine could be equipped with one (of four) standard cutting plates
- Cutting plates are available from 2 mm up to 5 mm cut length
- Custom cutting plates of cut lengths and custom patterns are available
- Basic machine included a foot pedal, junction box and an air hose
- Leads diameter: max. 1.3 mm
- Production rate: max. 1800 cph
- Pressure: 6 ATM

ASSEMBLY FIXTURES PCSA1/PCSA2/PCSA4



DESCRIPTION

- A professional line of assembly jigs for PCB's, designed to simplify placing and soldering of electronic components
- PCSA1,2,4 are supplied with central and two sliding rails as standards
- Additional rails may be added to accommodate a larger number of small boards
- The frame and lid assembly may be detached from the mounting base
- An ingenious design of the base permit an adjustable working angle on both side of the PCB's
- The jig is varnished steel, and the component pressing foam is in conductive material

Working dimensions PCSA1: 270 x 220 mm

IT-7915599

Working dimensions PCSA2: 500 x 220 mm

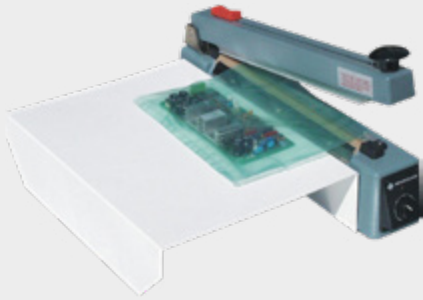
IT-7915601

Working dimensions PCSA4: 500 x 350 mm

IT-7915605



HAND SEALER



SPECIFICATION

CAT. NO.	SEALING LENGTH (MM)	POWER (WATTS)
IT-7914201	200	260W
IT-7914211 (MODEL WITH BLADE)	200	260W
IT-7914221	300	380W
IT-7914222 (MODEL WITH BLADE)	300	380W
IT-7914232 (MODEL WITH BLADE)	400	500W

HAND SEALER WITH HOLDING MAGNET AND CUTTER



DESCRIPTION

- The machine operates quickly and efficiently with magnet hold, offering consistent secure sealing for every package
- After the seal cycle the machine re-opens automatically
- Adjustable welding and cooling time

Hand Sealer (max. seal length 300 mm)

IT-7914245

MANUAL SEALER



DESCRIPTION

- Lightweight manual sealing machine
- Seal length 150 mm
- Illuminated switch
- The maximum seal thickness: 2 x 0.25 mm

Hand Sealer (max. seal length 150 mm)

IT-7914175

MANUAL SEALER WITH EXTENDED SEALING ELEMENT



DESCRIPTION

- Easy to use
- Electronically controlled pulse sealing
- Sealing time: 0.2 - 1.5 s
- Mobile thanks to the handle
- Maximum film thickness: 2 x 0.125 mm
- Seal dimensions: 450 x 2 mm

Hand Sealer (max. seal length 450 mm)

IT-7914252



MANUAL SEALER WITH BLADE FOR MEDICAL INDUSTRY



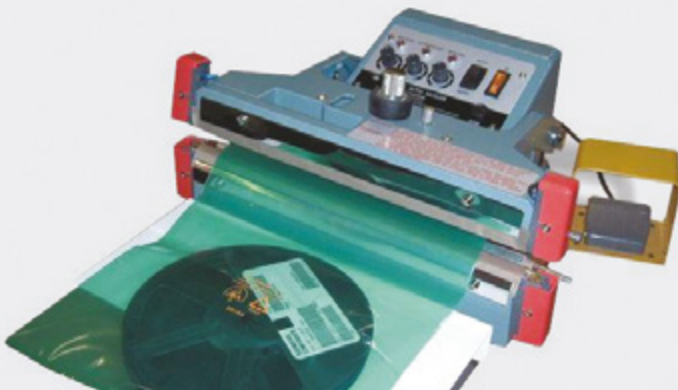
DESCRIPTION

- Recommended for medical - pharmaceutical applications
- Produces waterproof seals on sterilization packaging rolls (paper - plastic; plastic - plastic)
- Sealing time is adjustable, depending on the type and thickness of materials used
- The sealing machine signals the end of the sealing process with a sound
- Extruded seals
- Acoustic signalling
- Cutting blades

Maximum seal length: 200mm

IT-7914215

DOUBLE AUTO SEALER



DESCRIPTION

- Impulse sealing device with single or double sealing element
- The device has a possibility to set the sealing parameters:
 - film thicknesses
 - sealing time
 - cooling the seal
- Pedal for manual operation

Double auto sealer - 300 mm

IT-7914247

MANUAL VACUUM HEAT SEALER FOR BAGS



SPECIFICATION

- Seal length: 450 mm
- Seal width: 2 mm

Manual vacuum heat sealer for bags 450 mm

IT-7914340

VACUUM TANK SEALERS



SPECIFICATION

- Vacuum pump Oil bath, 20 m³/h
- Vacuum dimensions:
 - 410 x 400 x 90 mm (IT-7914262)
 - 460 x 450 x 90 mm (IT-7914263)
- Power supply: 220 V/50 Hz, 2 kW

Seal length: 400 x 5 mm

IT-7914262

Seal length: 450 x 5 mm

IT-7914263



COUNTY-S EVO COMPONENTS COUNTER



IT-8301131

DESCRIPTION

- County-s Evo is a motorized counting machine for taped SMD component counting
- It can operate in two different ways:
 - Totalizer - components are counted from a zero reference, tape feed is motorized and the counter automatically stops at the tape end, to prevent loss of the total
 - Tryb Preset - the desired component number is keyed on the keyboard and the counter automatically stops when it reaches the corresponding component. Checks the presence of the component
- Additional functions: adjustable speed control, empty pocket check, barcode reader input
- Step by step mode (1 component at a time)

COUNTY-S EVO SMD COUNTER, EMPTY POCKET CHECK



IT-8301133

DESCRIPTION

- Automated counting machine, dedicated to SMD tape components
- Two modes of operation:
 - Totalizer - the components are counted from zero, the belt travel is driven and the counter automatically stops at the end of the belt
 - Preset Mode - the desired number of components is entered on the device's keyboard and the counter stops automatically when the corresponding quantity is reached
- Additional functions: speed control, empty pocket control, barcode reader input

MODEL	COUNTY-S EVO	COUNTY-S EVO 110V	COUNTY-S EVO Z CZUJNIKIEM PUSTYCH KIESZONEK
CATALOG NUMBER	IT-8301131	IT-8301141	IT-8301133
COUNTING	Max. 999999 pcs, 6 digits 22 mm height		
MAXIMUM COUNTING SPEED	220 pcs./sec. (1 piece per hole)		
PITCH (HOLES FOR COMPONENT)	From 0,5 to 99		
MAXIMUM TAPE HEIGHT	56 mm		
MAXIMUM REEL DIAMETER	400 mm (standard configuration), 650 mm (with IT-8301150 support)		
DISPLAY	Blue LCD with LED backlight 160 x 104 pixel		
VISIBLE AREA	74 x 46 mm		
SELECTION OF THE OPERATOR	10 operators can be memorized		
INTERNAL CLOCK	1 week backup		
DATALOGGER	Stores the last 500 counting data		
DIMENSIONS	525 x 340 x 250 mm		
WEIGHT	9,5 kg		



COUNTY EVO COMPONENTS COUNTER



IT-8301087

DESCRIPTION

- Microprocessor - controlled counter for axial, radial components (SMD with optional adapter IT - 8301018)
- Counting in two directions
- Number of component leads: 0.5 - 19
- Counting the set number of components, total counting
- Drive control output for SUPER FORM
- Maximum number of items to be counted: 999999
- Min. lead diameter: 0.4 mm
- Axial components tape width of : 55 - 110 mm
- Radial components tape width of : max. 18 mm
- Display: 4 positions, height 13 mm

IT-8301018

SMD adapter

IT - 8301027

SMD spool support

IT - 8301030

SMD support for rolled bandolier

COUNTY EVO ELECTRONIC ELEMENTS COUNTER,



IT-8301088

DESCRIPTION

- Microprocessor - controlled counter for axial, radial and battery components
- Counting in two directions
- Counting the set number of components, total counting
- Drive control output for SUPER FORM
- 220V version with battery and printer connectivity option

MAXIMUM NUMBER OF ITEMS TO BE COUNTED

999999

NUMBER OF COMPONENT OUTPUTS

0,5 - 19

MINIMUM LEAD DIAMETER

0,4 mm

BELT WIDTH OF AXIAL COMPONENTS

55 - 110 mm

BELT WIDTH OF RADIAL COMPONENTS: MAX.

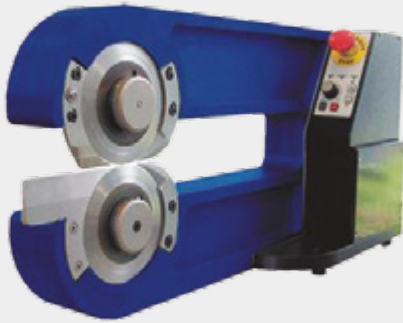
18 mm

DISPLAY

4 positions, height 13 mm

WEIGHT

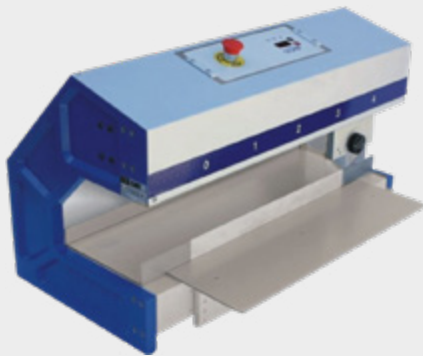
2 kg

**TRACTOR PCB DEPANELLING MACHINE**

IT-7915582

DESCRIPTION

- PCB separation device for quick and economical PCB separation
- The connected PCBs are placed between the blades and separated with them
- Aluminium small frame
- Blades and guides made of special steel for extended service life
- Maximum length of the separated element: 350 mm
- Panel thickness: 0.8 - 3.2 mm
- Maximum height of components: 34 - 43 mm
- Unit with 230 V AC motor

TRACTOR 2 PCB DEPANELING MACHINE**DESCRIPTION**

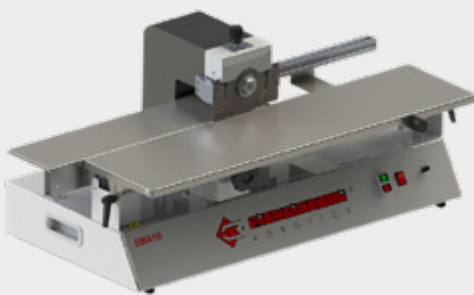
- Separates both small and large pre-scored PCBs
- The maximum separation length is 450 mm
- The PCB is placed with its pre-scored groove onto the linear blade and the circular blade is then drawn by hand, or by motor, across the PCB
- The clearance between the upper circular blade and the lower linear blade is adjustable

TRACTOR 2 - PCB Hand depaneling machine

IT-7915560

TRACTOR 2M - PCB Motorized depaneling machine 230V

IT-7915564

SMA 10 PCB DEPANELING MACHINE

PG-SMA-10

DESCRIPTION

- Machine designed to separate Printed Circuit Boards previously scored
- It works either on traditional materials like FR4 as well as on aluminium substrates (MCPCB)-
- The alignment system allows three degrees of regulation
- SMA10 can depanel both short and long boards bare or populated. In this last case the maximum component height is 32 mm cutting tools have a diameter of 125 mm
- Adjustable speed

TWO CIRCULAR TOOLS	Ø 125 mm
MOTORIZED LOWER TOOL WITH ADJUSTABLE SPEED	0 - 120 (rpm)
WORKING PLANE SIZE	1000 x 250 mm
UNLOADING PLANE SIZE	200 x 400 mm
WORKING PLANE HEIGHT ADJUSTMENT	0 - 17 mm
SUGGESTED PANEL SIZE	900 x 350 mm
MAXIMUM COMPONENTS HEIGHT FOR POPULATED BOARDS	32 mm



PIERGIACOMI DPF-300 DEPANELLING MACHINE



PG-DPF-300

DESCRIPTION

- Fast separation device for a series of PCBs
- Easy replacement of the cutting blade
- The integrated Vacuum system
- Blades and guides made of special steel to ensure extended service life
- The whole construction including the worktop is ESD protected

POWER CONSUMPTION	0,55 kW
PRESSURE REGULATOR	-22 kPa (-220 mBar)
AIR PRESSURE	6 bar
HOSE DIAMETER	Ø 6 mm
COMPRESSED AIR	max. 210 NI/min; average 140 NI/min
DIMENSIONS	65 x 65 x 95 mm
WEIGHT	55 kg

NOTES SECTION

A large grid of small dots for taking notes, consisting of 20 columns and 30 rows.



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MANUFACTURING OF EQUIPMENT FOR ELECTRONICS

Since the very beginning, REECO's goal has been to manufacture high quality products, which could be used for many years while satisfying our customers needs.

Many trainings, constant commitment and practice allowed us to implement a number of modern technical solutions. The quality of the brand is confirmed by many awards, e.g:

- 1st PLACE in the DOBRY WZÓR 2015 competition for Reeco Premium Table in the WORK ZONE category
- 1st PLACE in the DOBRY WZÓR 2018 competition for RE-2100 Soldering robot in the WORK ZONE category

organized by the Institute of Industrial Design in Warsaw.





ESD WORKSTATIONS

A wide range of ESD industrial furniture. Thanks to the modularity of Reeco furniture, they can be freely configured in line with the growing customers requirements.



REECO ROBOTS

Selective soldering robots for through-hole components using SCARA-type robots, as well as robots for dispensing, potting, or screwing.



ESD CLOTHING

High quality anti-static clothing, produced in appropriate working conditions, in compliance with the strictest standards of the production process.



EQUIPMENT AND ACCESORIES

Advanced equipment for BGA assembly and disassembly, pre-heaters, feeders and dispensers, ultrasonic cleaners, anti-static mats and many other accessories.

CONTACT US

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ESD CLOTHING

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ROBOTS

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EQUIPMENT

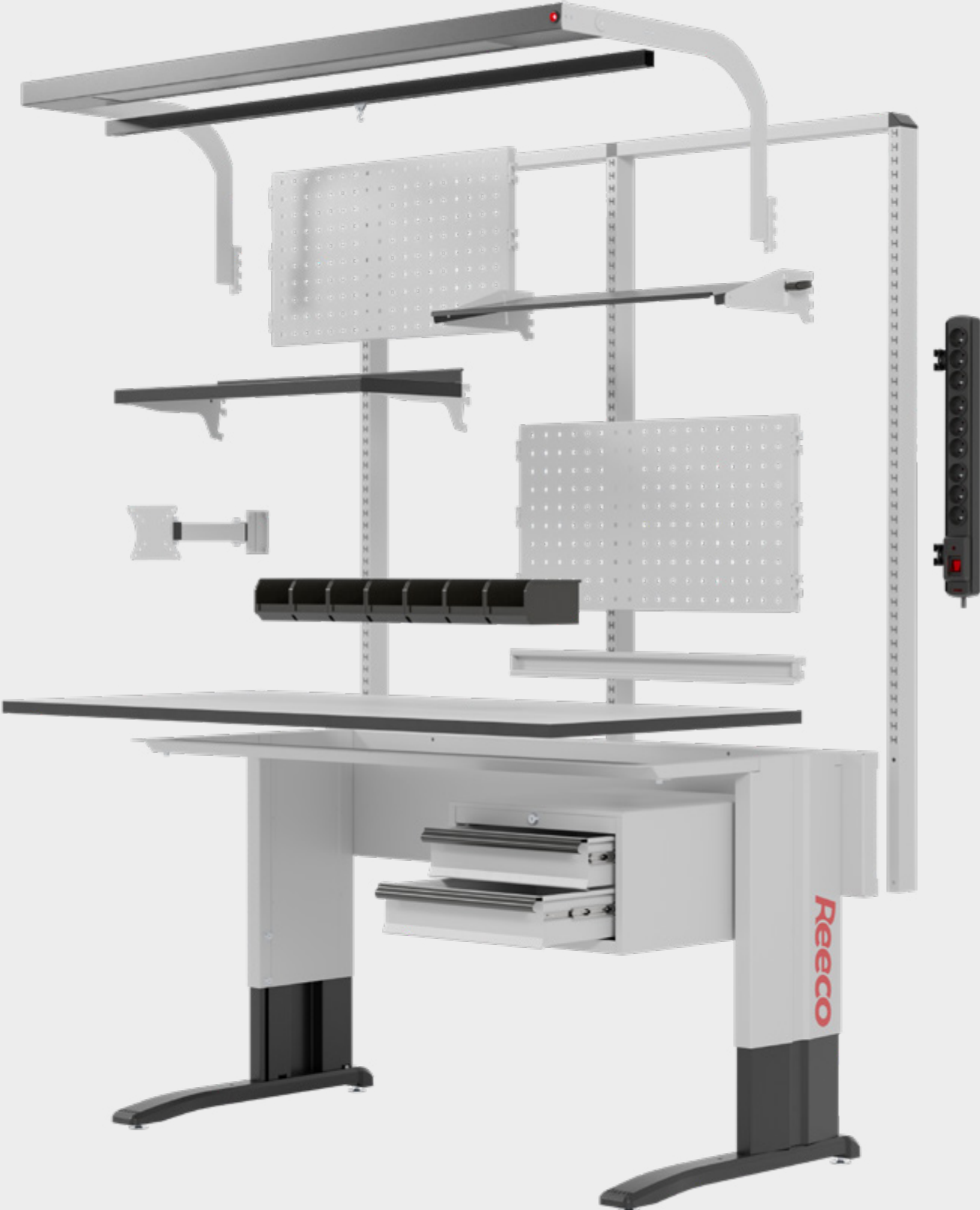
T: + 48 605 370 102

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VISIT OUR WEBSITE

For a detailed offer and more information about the company, please visit our website: REECO.INFO

REECO WORKSTATION CONFIGURATOR 3D



Create your own
personalized
workstation
CONFIGURE



PREMIUM TABLE FRAME



SPECIFICATION

- Max load capacity: 600 kg
- Height adjustment: 670 - 1070 mm
- Type of height adjustment: manual
- Type of height adjustment lock: 4 screws per leg
- Leveling feet
- Applicable table top: rectangular, ergonomic
- Metal cast foot for increased stability

CAT. NO.	WIDTH	DEPTH	HEIGHT
RF-001-12075-9003	1200 mm	750 mm	670 - 1070 mm
RF-001-15375-9003	1530 mm	750 mm	670 - 1070 mm
RF-001-18375-9003	1830 mm	750 mm	670 - 1070 mm

PREMIUM ELECTRICALLY ADJUSTABLE TABLE FRAME



SPECIFICATION

- Smooth starting and stopping provided by the control box
- Low noise level
- Maximum power: 155 kg (per leg)
- Maximum speed: 43 mm/s (at no load)
- Power supply: 24 V (AC adapter included)
- Linak Co. smartphone application for height adjustment via Bluetooth
- Applicable table top: rectangular, ergonomic

CAT. NO.	WIDTH	DEPTH	HEIGHT
RF-001-12075-9003-M	1200 mm	750 mm	740 - 1240 mm
RF-001-15375-9003-M	1530 mm	750 mm	740 - 1240 mm
RF-001-18375-9003-M	1830 mm	750 mm	740 - 1240 mm

PREMIUM ELECTRIC + TABLE FRAME



SPECIFICATION

- Premium Electric Plus is the new generation of Reeco antistatic workbenches, designed for complete reliability, precision, and independence
- Fully developed and manufactured in Poland
- Low noise level
- Maximum speed: 10 mm/s (no load)
- Maximum load capacity (with tabletop): 500 kg
- Applicable table top: rectangular, ergonomic

CAT. NO.	WIDTH	DEPTH	HEIGHT
RF-001-12075-9003-M+	1200 mm	750 mm	780 - 1200 mm
RF-001-15375-9003-M+	1530 mm	750 mm	780 - 1200 mm
RF-001-18375-9003-M+	1830 mm	750 mm	780 - 1200 mm



CLASSIC TABLE FRAME



SPECIFICATION

- Max load capacity: 300 kg
- Height adjustment: 700 - 1020 mm
- Type of height adjustment: manual
- Type of height locking: 4 screws per leg
- Leveling feet
- Applicable table top: rectangular, ergonomic

CAT. NO.	WIDTH	DEPTH	HEIGHT
RF-002-12075-9003	1200 mm	750 mm	700 - 1020 mm
RF-002-15375-9003	1530 mm	750 mm	700 - 1020 mm
RF-002-18375-9003	1830 mm	750 mm	700 - 1020 mm
RF-002-12090-9003	1200 mm	900 mm	700 - 1020 mm
RF-002-15390-9003	1530 mm	900 mm	700 - 1020 mm
RF-002-18390-9003	1830 mm	900 mm	700 - 1020 mm

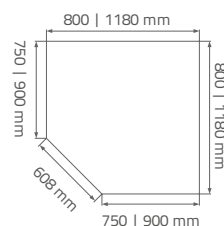
CLASSIC CORNER MODULE



SPECIFICATION

- Structure with antistatic tabletop and support leg (standard)
- Max corner load: 100 kg | Manual height adjustment: 670-1070 mm
- Available only with two Classic tables

DIMENSIONS



CAT. NO.	TABLETOP DIMENSIONS	DEPTH
RF-003C-800800-9003	800 x 800 mm	750 mm
RF-003C-11860-9003	1180 x 1180 mm	750 mm
RF-003C-80080090-9003	800 x 800 mm	900 mm
RF-003C-11890-9003	1180 x 1180 mm	900 mm

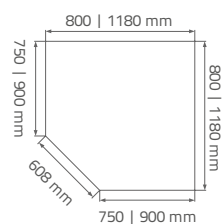
PREMIUM CORNER MODULE



SPECIFICATION

- Structure with antistatic tabletop and support leg (standard)
- Max corner load: 100 kg | Manual height adjustment: 670-1070 mm
- Available only with two Premium tables

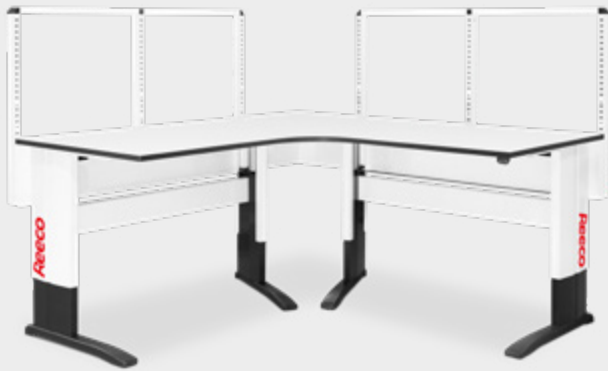
DIMENSIONS



CAT. NO.	TABLETOP DIMENSIONS	DEPTH
RF-003P-800800-9003	800 x 800 mm	750 mm
RF-003P-11860-9003	1180 x 1180 mm	750 mm
RF-003P-80080090-9003	800 x 800 mm	900 mm
RF-003P-11890-9003	1180 x 1180 mm	900 mm



ESD REECO PREMIUM ELECTRICALLY ADJUSTABLE L-SHAPED WORKBENCH



SPECIFICATION

- The Premium Electric corner frame is equipped with high-power electric actuators for height adjustment of the tabletop
- Structure comes with an antistatic tabletop
- Maximum load capacity of the table: 500 kg
- Modern lifting columns feature high load capacity and very low energy consumption
- Maximum force: 155 kg (per leg)
- Maximum speed: 43 mm/s (unloaded)
- Power supply: 24V (power adapter included)
- Smooth start and stop
- Low noise level

CATALOG NUMBER

RF-001-200200-9003-M

REECO CLASSIC EXTENSION UNIT



SPECIFICATION

- Structure offered with an antistatic tabletop
- Maximum load capacity of the extension/corner module: 100 kg
- Can be attached on either the left or right side

TABLETOP DIMENSIONS



CATALOG NUMBER	LENGTH	WIDTH
RF-003-12075-9003	1200 mm	750 mm
RF-003-15375-9003	1530 mm	750 mm

PREMIUM ADD-ON UNIT



DESCRIPTION

- Structure offered with an antistatic tabletop, dedicated to the 1830 mm Premium table
- Maximum load capacity of the extension/corner module: 100 kg
- Can be attached on the left or right side
- Option to expand with a perforated frame

TABLETOP DIMENSIONS



CATALOG NUMBER	LENGTH	WIDTH
RF-003P-12075-9003	1200 mm	750 mm



ANTI-VIBRATION TABLE



DESCRIPTION

Anti-vibration table is an essential element of every laboratory. In order to ensure consistent and proper operation of scales, microscopes and measuring devices they are placed on a specially designed granite plate.

All types of vibration that may affect the operation of the devices (generated by other devices in a laboratory or transmitted through the floor) is eliminated thanks to vibroisolators on which the plate is mounted.

- Height adjustment range: 850 - 1230 mm
- Maximum table frame load capacity: 300 kg
- Maximum granite tabletop load capacity: 200 kg
- 4 robust vibroisolators
- Two-layer board made of polished granite
- Standard sizes of granite board: 500 x 500 mm
- Possibility to produce granite slabs in custom dimensions upon special request.

CATALOG NUMBER	LENGTH	WIDTH
RF-030N-15375-9003	1530 mm	750 mm
RF-030N-18375-9003	1830 mm	750 mm

ANTI-VIBRATION TABLE WITH TWO GRANITE TABLETOPS



DESCRIPTION

- The anti-vibration table is an essential element of laboratory equipment.
- To ensure stable and accurate operation of analytical balances, microscopes, and measuring instruments, these devices are placed on a specially designed granite plate.
- Thanks to the vibration isolators on which the plate is mounted, all shocks and vibrations generated by other equipment in the laboratory or transmitted through the floor are eliminated, preventing any interference with the device's performance.
- Height adjustment range of the structure: 850 – 1230 mm
- Maximum table frame load capacity: 300 kg
- Maximum load capacity of the granite plate: 200 kg
- Antistatic table structure
- 12 robust vibration isolators
- Two plates made of polished granite
- Standard granite plate dimensions: 800 x 800 mm
- Worktop dimensions: 2500 x 1000 mm

CATALOG NUMBER	LENGTH	WIDTH
RF-030-25010-9003	2500 mm	1000 mm



MOBILE UNIT



DESCRIPTION

The MOBILE unit is the ideal solution for manufacturing plants, workshops, laboratories and wherever mobility or rapid movement of parts and tools is required.

Modular design allows all accessories for 900 mm wide frames to be mounted

- Diameter of wheels: 75 mm
- 4 swivel wheels - 2 with brakes
- Computer shelf integrated into the base
- Frame dimensions without casters: 930 × 2000 mm

TABLETOP FRAME – DIMENSIONS (MM)



CATALOG NUMBER	FRAME HEIGHT	TABLETOP WIDTH	TABLETOP DEPTH
RF-098-20090-9003	2000 mm	930 mm	600 mm

ADD-ON UNIT FOR CLASSIC AND PREMIUM FRAME STRUCTURES



DESCRIPTION

- Posts with worktop support ensure stability and prevent any deformation
- 3 levels of worktop height adjustment: 400, 500, 600 mm
- Top layer of the worktop: dissipative laminate – increased resistance to moisture and scratches
- Core: dissipative, moisture-resistant

ADD-ON UNIT WORKTOP – DIMENSIONS (MM)



CATALOG NUMBER	WIDTH	DEPTH
RF-007-09030-9003	930 mm	300 mm
RF-007-12030-9003	1200 mm	300 mm
RF-007-15330-9003	1530 mm	300 mm
RF-007-18330-9003	1830 mm	300 mm



ERGONOMIC TABLE TOP



DESCRIPTION

- Color: RAL 7036, designation U1188 Light Grey
- Top layer: dissipative laminate with enhanced resistance to moisture and scratches
- Core: conductive
- Tabletop mounting: threaded inserts / wood screws

CATALOG NUMBER	WIDTH	DEPTH	THICKNESS
RF-005-12075-7036	1200 mm	750 - 800 mm	25 mm
RF-005-15375-7036	1530 mm	750 - 800 mm	25 mm
RF-005-18375-7036	1830 mm	750 - 800 mm	25 mm

RECTANGULAR TABLE TOP



DESCRIPTION

- Color: RAL 7036, designation U1188 Light Grey
- Top layer: dissipative laminate, enhanced resistance to moisture and scratches
- Core: conductive
- Table top mounting: threaded inserts / wood screws

CATALOG NUMBER	WIDTH	DEPTH	THICKNESS
RF-004-12075-7036 RF-004-12090-7036	1200 mm	750 mm 900 mm	25 mm
RF-004-15375-7036 RF-004-15390-7036	1530 mm	750 mm 900 mm	25 mm
RF-004-18375-7036 RF-004-18390-7036	1830 mm	750 mm 900 mm	25 mm

VERTICAL PERFORATED FRAME



DESCRIPTION

- The vertical perforated frame is one of the core components of workstation equipment
- Accessories such as shelves, plastic bins, and perforated panels are mounted on the frame
- The perforation allows for accessories to be placed at any desired height
- The frame is available in three standard widths

VERTICAL PERFORATED FRAME (TALL) – DIMENSIONS

CATALOG NUMBER	WIDTH	MAX. HEIGHT
RF-008-0900-9003	930 mm	1555 mm
RF-008-2750-9003	1530 mm	1555 mm
RF-008-2900-9003	1830 mm	1555 mm

VERTICAL PERFORATED FRAME (LOW) – DIMENSIONS

CATALOG NUMBER	WIDTH	MAX. HEIGHT
RF-008-09009-9003	930 mm	900 mm
RF-008-27509-9003	1530 mm	900 mm
RF-008-29009-9003	1830 mm	900 mm



REECO LAMP/BALANCER RAIL



DESCRIPTION

LAMP HOLDER

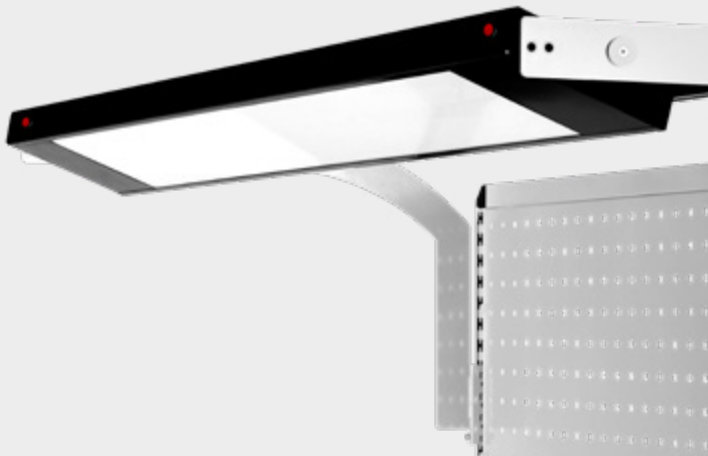
This is a modular component that allows for the use of multiple accessories simultaneously or a complete reconfiguration of the workstation. The holder is designed for mounting a dedicated LED lamp, and its thoughtful design enables vertical adjustment of the light beam.

BALANCER/LIGHTING RAIL

Additionally, the holder allows for the installation of a rail, which can accommodate extra tools such as electric screwdrivers with a balancer or fluorescent lighting.

CATALOG NUMBER	WIDTH
RF-009-0900-9003	900 mm
RF-009-2750-9003	1500 mm
RF-009-2900-9003	1800 mm

REECO LED LAMP

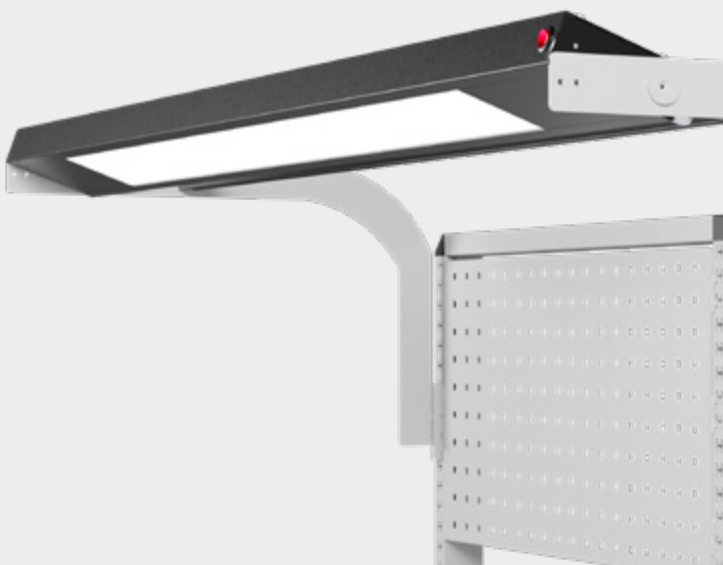


DESCRIPTION

- Reeco lamps, thanks to the use of LEDs, are characterized by low power consumption and longer service life.
- Ergonomic LED lighting is designed in accordance with European standard EN12464 - 1
- The light emitted does not cause eye fatigue, glare or shine
- Colour temperature: 5700K
- Lighting efficiency: 105 lm/W
- **3D** - with the option to partially disable lighting

CATALOG NUMBER	WIDTH	POWER
RF-015-0900-7021	900 mm	60 W
RF-015-1500-7021	1500 mm (3D)	120 W
RF-015-1800-7021	1800 mm (3D)	140 W

REECO LED SLIM LAMP



DESCRIPTION

- Reeco lamps, thanks to the use of LEDs, are characterized by low power consumption and longer service life.
- Ergonomic LED lighting is designed in accordance with European standard EN12464 - 1
- The light emitted does not cause eye fatigue, glare or shine
- Colour temperature: 5700K
- Lighting efficiency: 105 lm/W
- **DC** - lamps with dimmer | **SL** - SLIM-type lamps

CATALOG NUMBER	WIDTH	POWER
RF-015-0900-7021- SL	900 mm	48 W
RF-015-1500-7021- SL	1500 mm	60 W
RF-015-1800-7021- SL	1800 mm	48 W
RF-015-0900 DC -7021- SL	900 mm	15 - 48 W
RF-015-1500 DC -7021- SL	1500 mm	15 - 48 W
RF-015-1800 DC -7021- SL	1800 mm	15 - 48 W



REECO LUMINOS ESD LAMP



RE-MAG-001-E

SPECIFICATION

- Professional lamp for use in EPA zones
- Three levels of light intensity
- Arm with reinforced joints that allow the lamp to be positioned freely
- Wide spread of light
- Modern and ergonomic design
- Fixing standard: to the edge of the worktop

LIGHT	Lighting 117 SMD 24W LED
COLOUR TEMPERATURE	5700 K - 6000 K
MAX. REACH	112 cm

DAYLIGHT LUMI LAMP



DA-E35500

SPECIFICATION

- 15W LED lighting
- Two levels of light intensity
- The arm with reinforced joints allows the lamp to be positioned in any position
- Fixing standard: to the edge of the worktop

LIGHT	88 SMD LED
COLOUR TEMPERATURE	6000°K
LIGHT INTENSITY	3800 lx
MAX. REACH	108 cm

DAYLIGHT LUMINOS LED LAMP



DA-E35600

SPECIFICATION

- Lighting 120 SMD 24W LED
- Three levels of light intensity
- Arm with reinforced joints that allow the lamp to be positioned freely
- Wide spread of light

LIGHT	120 SMD LED
COLOUR TEMPERATURE	6000°K
LIGHT INTENSITY	3800 lx
MAX. REACH	112 cm

DAYLIGHT SLIMLINE LED LAMP



DA-E35108

SPECIFICATION

- Made of steel (finish: matt chrome) SLIMLINE LED table lamp attached to the edge of the tabletop or on an additional base D52107, which can be bought separately.
- 4 levels of light intensity.
- Perfect lamp positioning thanks to flexible connections.

LIGHT	1065 lm
COLOUR TEMPERATURE	6000°K
LIGHT INTENSITY	3000 lx
MAX. REACH	max. 73 cm



REECO PREMIUM PACKING SYSTEM



RF-0341-1530-9003

FRAME	
FRAME WIDTH	1530 mm
HEIGHT	1555 mm
MAXIMUM LOAD CAPACITY	600 kg

DESCRIPTION

- Packing system based on REECO Premium industrial table
- Frame enables installation of guillotine, paper feeders and bubble wrap

WORKSTATION EQUIPMENT

- Reeco Premium table frame 1530 × 750
- Straight ESD worktop 1530 × 750
- Standard cutter with single cutting blade
- Universal holder for paper and bubble wrap 1530
- 2-drawer cabinet

PAPER AND BUBBLE WRAP DISPENSER

AXIS DIAMETER	25 mm
PAPER WIDTH	400 - 1200 mm
MAX. ROLL DIAMETER	800 mm
MAX. LOAD CAPACITY	30 kg (1 feeder)

REECO CLASSIC PACKING SYSTEM



RF-0342-1530-9003

FRAME	
FRAME WIDTH	1530 mm
HEIGHT	1555 mm
MAXIMUM LOAD CAPACITY	300 kg

DESCRIPTION

- Packing system based on REECO Classic industrial table
- Frame enables installation of guillotine, paper feeders and bubble wrap

WORKSTATION EQUIPMENT

- Reeco Classic table frame 1530 × 750
- Straight ESD worktop 1530 × 750
- Perforated frame 1500
- Standard cutter with single cutting blade
- Holder for paper and bubble wrap 1530

PAPER AND BUBBLE WRAP DISPENSER

AXIS DIAMETER	25 mm
PAPER WIDTH	400 - 1200 mm
MAX. ROLL DIAMETER	800 mm
MAX. LOAD CAPACITY	30 kg (1 feeder)



MODULAR PACKING TABLE STAND



RF-0340-1530-9003

DESCRIPTION

- A stand based on a perforated frame to which a guillotine and a paper holder or ESD bubble wrap can be attached
- System provides full height adjustment of the guillotine and paper feeder suspension

WORKSTATION EQUIPMENT

- Frame of modular stand attachable to the workstation
- Cutter with guide rail and cutting blade
- Universal holder for paper and bubble wrap 1530 – 2 pieces

WIDTH	1530 mm
HEIGHT	1800 mm
DEPTH	750 mm
MAX. LOAD CAPACITY	100 kg

2-PART BLADES



RF-034-6/250200

DESCRIPTION

- Interchangeable blades

ESD METAL STORAGE RACK



DESCRIPTION

- Robust structure made of 1 mm thick steel sheet
- Provides protection against electrostatic discharges, which is crucial in the electronics, aerospace, defense, optoelectronics, and aviation industries
- Powder-coated with a special antistatic paint compliant with PN-EN-61340-5-1:2017 (IEC-61340-5-1:2016) standards
- Equipped with +30 mm leveling adjustment through conductive leveling feet
- Structure load capacity: 300 kg

ACCESSORIES MOUNTED ON THE RACK

- Shelves with dimensions: 955 × 330 mm (5 shelves as standard)
- Adjustable accessory positioning allows the system to be easily customized to individual needs
- Shelf load capacity: 100 kg

OPTIONAL ACCESSORIES

- Cabinet back panel
- Containter rail for cabinet
- Drawer for cabinet

CATALOG NUMBER	WIDTH	HEIGHT	DEPTH
RF-020-20001000400-5-9003_1	1000 mm	2000 mm	400 mm
RF-020-20001000500-5-9003_1	1000 mm	2000 mm	500 mm
RF-020-20001000600-5-9003_1	1000 mm	2000 mm	600 mm



REINFORCED ESD METAL STORAGE RACK



DESCRIPTION

- Robust structure made of 1 mm thick steel sheet
- Provides protection against electrostatic discharges, which is crucial in the electronics, aerospace, defense, optoelectronics, and aviation industries
- Powder-coated with a special antistatic paint compliant with PN-EN-61340-5-1:2017 (IEC-61340-5-1:2016) standards
- Equipped with +30 mm leveling adjustment through conductive leveling feet
- Structure load capacity: 600 kg

ACCESSORIES MOUNTED ON THE RACK

- Shelves (5 pieces as standard)
- Adjustable accessory positioning allows the system to be easily customized to individual needs
- Shelf load capacity: 100 kg

OPTIONAL ACCESSORIES

- Cabinet back panel
- Drawer for cabinet
- Containter rail for cabinet

CATALOG NUMBER	WIDTH	HEIGHT	DEPTH
RF-020-20001000400-5-9003_2	1000 mm	2000 mm	400 mm
RF-020-20001000500-5-9003_2	1000 mm	2000 mm	500 mm
RF-020-20001000600-5-9003_2	1000 mm	2000 mm	600 mm

TOOL CABINET



DESCRIPTION

- Robust structure made of 1 mm thick steel sheet
- Provides protection against electrostatic discharges, which is crucial in the electronics, aerospace, defense, optoelectronics, and aviation industries
- Powder-coated with a special antistatic paint compliant with PN-EN-61340-5-1:2017 (IEC-61340-5-1:2016) standards
- Equipped with +30 mm leveling adjustment through conductive leveling feet
- Double-wing doors with a 135° opening angle, secured with a two-point lock and a cylinder insert
- Load capacity of the structure: 600 kg

ACCESSORIES TO BE INSTALLED IN THE CABINET

- Shelves – adjustable accessory placement allows the system to be easily customized to individual needs
- Shelf load capacity: 100 kg

OPTIONAL ACCESSORIES

- Cabinet back panel
- Drawer for cabinet
- Containter rail for cabinet
- Clothing hanger for cabinet

CATALOG NUMBER	WIDTH	HEIGHT	DEPTH	NUMBER OF SHELVES (STANDARD)
RF-022-10001000400-2-9003_1	1000 mm	1000 mm	400 mm	2 pcs.
RF-022-20001000400-5-9003_1	1000 mm	2000 mm	400 mm	5 pcs.
RF-022-20001000500-5-9003_1	1000 mm	2000 mm	500 mm	5 pcs.
RF-022-20001000600-5-9003_1	1000 mm	2000 mm	600 mm	5 pcs.
RF-022-20001000700-4-9003_1	1000 mm	2000 mm	700 mm	4 pcs.



DRAWER FOR CABINET



DESCRIPTION

- Drawer compatible with cabinet and shelf
- Maximum number of drawers: 16 units

CATALOG NUMBER	WIDTH	HEIGHT	DEPTH
RP-SP1000X400-006	785 mm	95 mm	287 mm
RP-SP1000X500-006	785 mm	95 mm	387 mm
RP-SP1000X600-006	785 mm	95 mm	487 mm
RP-SP1000X700-006	785 mm	95 mm	587 mm

CONTAINER RAIL FOR CABINET



RP-SP012-1000

DESCRIPTION

- Container rail compatible with cabinets and shelving units
- Maximum number of containers:
 - 1L - 9 pieces (Can be installed in cabinets with a depth of: 400/500/600/700 mm)
 - 3,8L - 6 pieces (Can be installed in cabinets with a depth of: 400/500/600/700 mm)
 - 9,4L - 4 pieces (Can be installed in cabinets with a depth of: 500/600/700 mm)

CLOTHING HANGER FOR CABINET

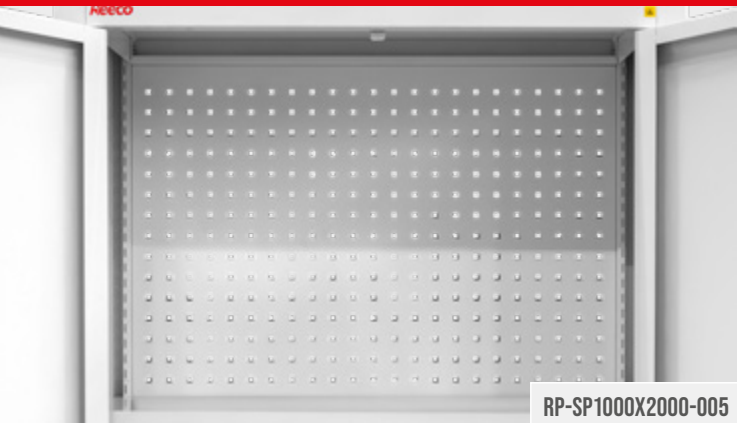


DESCRIPTION

- Perfect fit for Reeco industrial cabinets
- Durable construction resistant to heavy use in industrial environments
- Stable and easy installation inside the cabinet – no additional brackets required
- Functionality and aesthetics – order, convenience, and a neat cabinet interior without unnecessary elements
- Quick access to hangers – improved ergonomics for everyday work.

CAT. NUMBER	DEPTH
RP-SP1000X500	500 mm
RP-SP1000X600	600 mm
RP-SP1000X700	700 mm

ESD CABINET BACK PANEL



RP-SP1000X2000-005

DESCRIPTION

- Perforated back panel of the cabinet and shelving unit
- Coated with antistatic paint RAL 9003



WELDED METAL STORAGE RACK ON WHEELS

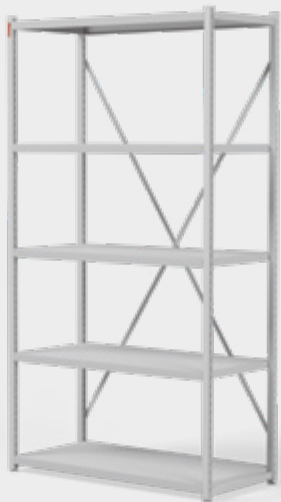


DESCRIPTION

- Welded ESD storage rack on wheels
- 4 swivel 80mm wheels, 2 with brakes, 2 without brakes
- Wheels can be swapped with leveling feet
- Product available only on customer order

CATALOG NUMBER	WIDTH	HEIGHT	DEPTH
RF-020-18001000400-5-9003_SK	1000 mm	2000 mm	400 mm
RF-020-18001000500-5-9003_SK	1000 mm	2000 mm	500 mm
RF-020-18001000600-5-9003_SK	1000 mm	2000 mm	600 mm

OPEN CROSS-BRACED RACK



DESCRIPTION

- 5 shelves as standard
- Frame load capacity: 500 kg
- Shelf load capacity: 75 kg
- Expandable with additional segments
- Equipped with leveling feet
- Covered with RAL 9003 ESD paint

CATALOG NUMBER	WIDTH	HEIGHT	DEPTH
RF-020-20001000500-5-9003_3	1000 mm	2000 mm	500 mm

SMT SPOOL RACK



DESCRIPTION

- 4 wheels with a diameter of 75mm (2 with brakes, 2 without brakes)
- 3 double shelves with adjustable height
- Covered with RAL 9003 ESD paint

CATALOG NUMBER	WIDTH	HEIGHT
RF-020-9601050-330-3-9003	1050 mm	960 mm



REECO STEEL SHELF

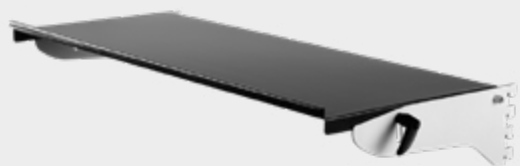


DESCRIPTION

- The structure enables mounting at an angle of 90°/80°/70° relative to the vertical perforated frame

CATALOG NUMBER	WIDTH	DEPTH	PAYLOAD (EVENLY DISTRIBUTED)
RF-010-0750-7021	750 mm	300 mm	30 kg
RF-010-0900-7021	900 mm	300 mm	30 kg
RF-0100-0750-7021	750 mm	400 mm	30 kg
RF-0100-0900-7021	900 mm	400 mm	30 kg

REECO ADJUSTABLE SHELF

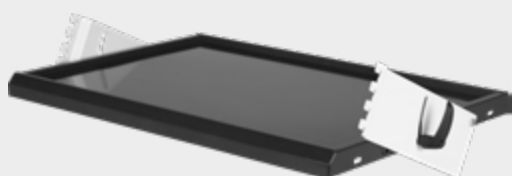


DESCRIPTION

- The structure allows smooth tilt angle adjustment from 90° to 60° relative to the vertical perforated frame

CATALOG NUMBER	WIDTH	DEPTH	PAYLOAD (EVENLY DISTRIBUTED)
RF-011-0750-7021	750 mm	300 mm	30 kg
RF-011-0900-7021	900 mm	300 mm	30 kg
RF-0111-0750-7021	750 mm	400 mm	30 kg
RF-0111-0900-7021	900 mm	400 mm	30 kg

REECO REINFORCED ADJUSTABLE SHELF



DESCRIPTION

- The design allows for smooth adjustment of the angle of inclination from 90° to 67° to the perforated vertical frame
- Designed to store heavy equipment

CATALOG NUMBER	WIDTH	DEPTH	PAYLOAD (EVENLY DISTRIBUTED)
RF-0110-0750-7021	750 mm	500 mm	50 kg
RF-0110-0900-7021	900 mm	600 mm	50 kg

REECO STANDARD LED ILLUMINATED SHELF

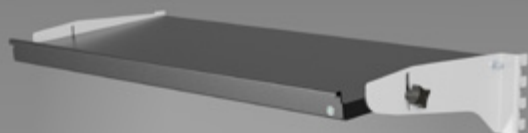


DESCRIPTION

- The design allows for smooth adjustment of the angle of 90°/80°/70° to the perforated vertical frame
- Maximum shelf load: 30 kg (evenly distributed)

CATALOG NUMBER	WIDTH	DEPTH	POWER
RF-017P-0750-7021	750 mm	300 mm	40W
RF-017P-0900-7021	900 mm	300 mm	40W

ILLUMINATED LED ADJUSTABLE SHELF



DESCRIPTION

- The design allows smooth tilt angle adjustment from 90° to 60° relative to the vertical perforated frame
- Maximum shelf load: 30 kg (evenly distributed)

CATALOG NUMBER	WIDTH	DEPTH	POWER
RF-017RN-0750-7021	750 mm	300 mm	40W
RF-017RN-0900-7021	900 mm	300 mm	40W



ESD LAMINATE SHELF



DESCRIPTION

- The 900x300 ESD laminate shelf is a functional and stylish addition to any ESD-safe workstation, improving organization in environments requiring protection from electrostatic discharge. Thanks to its antistatic properties and solid construction, it is ideal for use in laboratories, electronics workshops, assembly lines, and EPA zones.

CATALOG NUMBER	WIDTH	DEPTH	PAYLOAD (EVENLY DISTRIBUTED)
RF-010D-0900-7036	930 mm	300 mm	30 kg
RF-010D-1530-7036	1530 mm	300 mm	30 kg
RF-010D-1830-7036	1830 mm	300 mm	30 kg

ILLUMINATED LED SHELF



DESCRIPTION

- Illuminated module compatible with wooden shelf
- Coated with ESD RAL 9003 paint
- Max. LED power: 40W
- Power supply: 230V AC
- Color temperature: 5700K
- Max. power consumption: 70W
- Luminous efficiency: 105lm/W

CATALOG NUMBER	WIDTH	DEPTH	PAYLOAD (EVENLY DISTRIBUTED)
RF-017D-0750-9003	750 mm	300 mm	40 kg
RF-017D-0900-9003	900 mm	300 mm	40 kg

SHELF FOR SMD REEL



DESCRIPTION

- The 750 mm SMD reel shelf is a functional solution designed for professional work environments where efficient organization of spooled materials is essential
- Coated with antistatic RAL 9003 paint

CATALOG NUMBER	WIDTH	SPOOL DIAMETER
RF-024-P-0750-9003	750 mm	180 - 330 mm
RF-024-P-0900-9003	900 mm	180 - 330 mm

SPOOL HOLDER



DESCRIPTION

- Single holder for 900 mm diameter reels
- Coated with antistatic RAL 9003 paint

CATALOG NUMBER	WIDTH	WEIGHT
RF-025-SH-0750-9003	750 mm	2,5 kg
RF-025-SH-0900-9003	900 mm	2,5 kg

ESD SPOOL HOLDER



DESCRIPTION

- Supports two spools with a diameter of up to 750 mm and 900 mm
- Sturdy, stable construction for safe operation
- Quick and easy spool loading for intuitive use
- Coated with antistatic RAL 9003 paint

CATALOG NUMBER	WIDTH	WEIGHT
RF-025-SH-2750-9003	2 * 750 mm	2,5 kg
RF-025-SH-2900-9003	2 * 900 mm	2,5 kg



BLACK ANTISTATIC CONTAINERS



DESCRIPTION

- Plastic containers are ideal for storing small elements like: components, screws, nuts, seals, etc.

CATALOG NUMBER	CAPACITY	DIMENSIONS
RF-013-0001-ESD	1,0 L	160x100x75 mm
RF-013-0038-ESD	3,8 L	230x150x120 mm
RF-013-0094-ESD	9,4 L	350x200x145 mm

REECO RED/YELLOW ANTISTATIC CONTAINER 1L

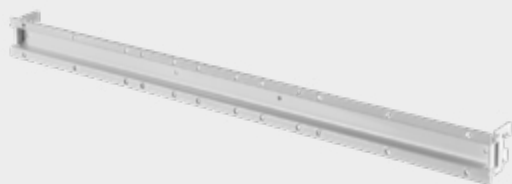


DESCRIPTION

- Ideal for storing smaller components such as: components, screws, nuts, gaskets, etc.
- Available in two colors: red and yellow

CATALOG NUMBER	CAPACITY	DIMENSIONS	COLOR
RF-013-0001-ESD-RED	1,0 L	160x100x75 mm	Red
RF-013-0001-ESD-YELLOW	1,0 L	160x100x75 mm	Yellow

SUSPENSION RAIL

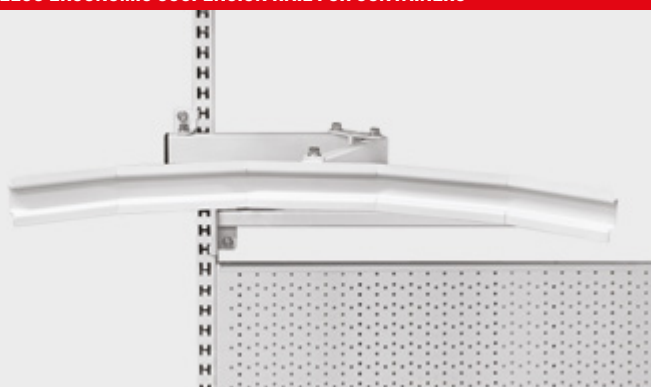


DESCRIPTION

- Its width should be chosen in accordance with the width of used perforated frame
- Coated with antistatic RAL 9003 paint

CATALOG NUMBER	WIDTH	CONTAINERS
RF-012-0750-9003	750 mm	7 (1L) / 4 (3,8L) pcs.
RF-012-0900-9003	900 mm	8 (1L) / 5 (3,8L) pcs.

REECO ERGONOMIC SUSPENSION RAIL FOR CONTAINERS



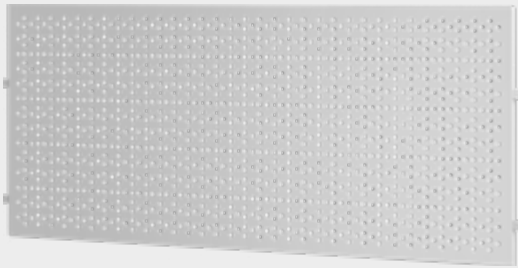
DESCRIPTION

- Ergonomic suspension rail for containers
- Four joints allow you to change the distance from the frame
- Coated with antistatic RAL 9003 paint

CATALOG NUMBER	WEIGHT	CONTAINERS
RF-012-5P-9003	1 kg	5 pcs. (1.0 L)



PERFORATED PANEL

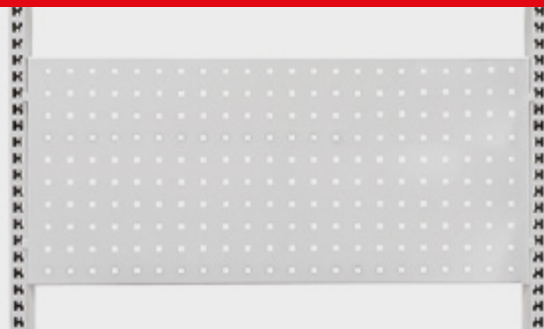


DESCRIPTION

- The panel is fixed between the posts of the perforated frame by means of 4 quick - mounting brackets
- Coated with antistatic RAL 9003 paint

CATALOG NUMBER	WIDTH	HEIGHT
RF-014-07503-9003	750 mm	300 mm
RF-014-09003-9003	900 mm	300 mm
RF-014-07504-9003	750 mm	400 mm
RF-014-09004-9003	900 mm	400 mm

PANEL WITH SQUARE PERFORATION



DESCRIPTION

- Perforated structure – allows for customized arrangement of hooks and holders
- Coated with antistatic RAL 9003 paint

CATALOG NUMBER	WIDTH	HEIGHT
RF-014-0750-9003	750 mm	400 mm
RF-014-0900-9003	900 mm	400 mm

REINFORCED PERFORATED PANEL



DESCRIPTION

- The panel is fixed between the posts of the perforated frame by means of 6 quick - mounting brackets
- Perforated structure – allows for customized arrangement of hooks and holders
- Coated with antistatic RAL 9003 paint

CATALOG NUMBER	WIDTH	HEIGHT
RF-014-07504-9003 WZM	750 mm	400 mm
RF-014-09004-9003 WZM	900 mm	400 mm

PLAIN PANEL

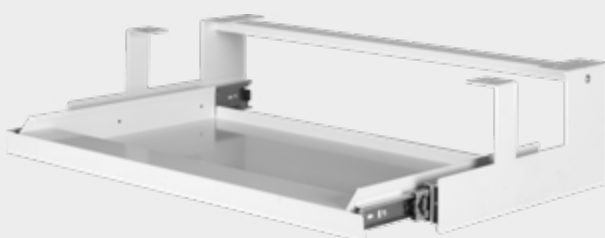


DESCRIPTION

- The panel is fixed between the posts of the perforated frame by means of 4 quick - mounting brackets
- Coated with antistatic RAL 9003 paint

CATALOG NUMBER	WIDTH	HEIGHT
RF-014-07504-9003 W BP	750 mm	400 mm
RF-014-09004-9003 W BP	900 mm	400 mm

KEYBOARD TRAY



DESCRIPTION

- Mounted under tabletop enables to gain additional usable space, and also puts the keyboard at the correct height
- Coated with antistatic RAL 9003 paint

CATALOG NUMBER	WIDTH	HEIGHT	DEPTH
RF-025-KEYBOARD-9003	Overall dimensions		
	680 mm	120 mm	380 mm
	Tray dimensions		
	595 mm	30 mm	310 mm



UNIVERSAL CPU HOLDER

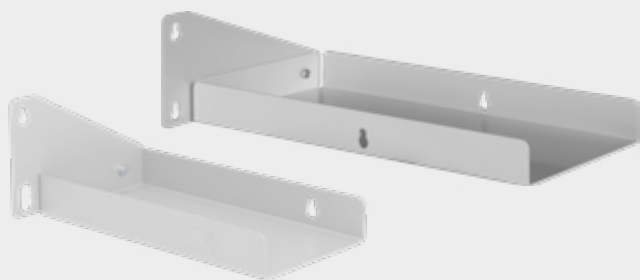


DESCRIPTION

- Compatible with CLASSIC, PREMIUM as well as PREMIUM ELECTRIC frame
- Width adjustment range: 120 - 195 mm
- Coated with antistatic RAL 9003 paint

CATALOG NUMBER	WIDTH	DEPTH	HEIGHT
RF-025-CHU-9003	120 - 195 mm	445 mm	460 mm

CPU HOLDER FOR PREMIUM FRAME

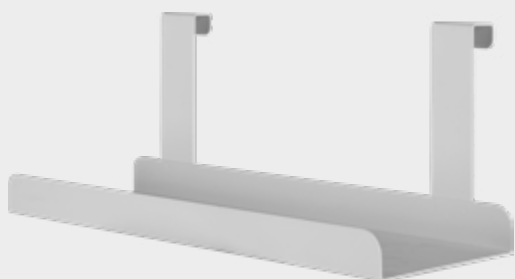


DESCRIPTION

- An ideal solution for better utilization of the workspace
- Coated with antistatic RAL 9003 paint
- Available in standard and slim versions

CATALOG NUMBER	WIDTH	HEIGHT
RF-025-CHP-9003	215 mm	500 mm
RF-025-CHP-SL-9003	215 mm	350 mm

CPU HOLDER FOR CLASSIC FRAME



DESCRIPTION

- Bracket is mounted to the frame of CLASSIC undercounter construction
- Easy and fast assembly without tools, optimizes work area
- Coated with antistatic RAL 9003 paint

CATALOG NUMBER	WIDTH	HEIGHT
RF-025-CHC-9003	195 mm	650 mm

DRAWER UNIT (1 DRAWER)



DESCRIPTION

- Single - drawer (non - lockable)
- Coated with antistatic RAL 9003 paint
- Front dimensions: 680x115 mm

CATALOG NUMBER	WIDTH	HEIGHT	DEPTH
RF-016-5930-9003	590 mm	55 mm	309 mm

STENCIL DRAWER



DESCRIPTION

- Cabinet for 615x610mm stencils
- Coated with antistatic RAL 9003 paint

CATALOG NUMBER	WIDTH	HEIGHT	LENGTH
RF-016-615610-9003	630 mm	630 mm	700 mm



REECO PNEUMATIC POWER STRIP WITH HANDLE



DESCRIPTION

- Made of high quality aluminium
- 3/8" or 1/2" power supply connection
- Output connection size 1/2"
- Handle coated with antistatic RAL 9003 paint

CATALOG NUMBER	NUMBER OF OUTLETS
RF-LP1/2G	4

SCHUKO POWER STRIP



DESCRIPTION

- Equipped with an automatic circuit breaker and electronic surge protection

CATALOG NUMBER	CURRENT	NUMBER OF OUTLETS	CABLE LENGTH
SHUKO			
RF-LZ-10A8G-3_W0213-900	10 A	8	3 m
STANDARD			
RF-LZ-16A9G-2.5	16 A	9	2,5 m

POWER STRIP MOUNTED HORIZONTALLY



DESCRIPTION

- Mounting method on perforated frame – horizontal, in a holder
- Equipped with an automatic circuit breaker and electronic surge protection
- Color: black

CATALOG NUMBER	CURRENT	NUMBER OF OUTLETS	WIDTH	CABLE LENGTH
SHUKO				
RF-LZ-10A8G-3_W0213-750	10 A	8	750 mm	3 m
RF-LZ-10A8G-3_W0213-900	10 A	8	900 mm	3 m
STANDARD				
RF-LZ-16A9G-2.5-750	16 A	9	750 mm	2,5 m
RF-LZ-16A9G-2.5-900	16 A	9	900 mm	2,5 m

POWER STRIP HUNG ON A BIN RAIL



DESCRIPTION

- Mounting method on perforated frame – horizontal, using a bin rail
- Automatic fuse and an electronic surge protector

CATALOG NUMBER	CURRENT	NUMBER OF OUTLETS	WIDTH	CABLE LENGTH
SHUKO				
RF-LZ-10A8G-3_W0213-750-012	10 A	8	750 mm	3 m
RF-LZ-10A8G-3_W0213-900-012	10 A	8	900 mm	3 m
STANDARD				
RF-LZ-16A9G-2.5-750-012	16 A	9	750 mm	2,5 m
RF-LZ-16A9G-2.5-900-012	16 A	9	900 mm	2,5 m



POWER STRIP MOUNTED TO THE TABLETOP



DESCRIPTION

- Mounting method: to the table frame
- Equipped with an automatic circuit breaker and electronic surge protection
- Color: black

CATALOG NUMBER	CURRENT	NUMBER OF OUTLETS	CABLE LENGTH
SHUKO			
RF-LZ-10A8G-3_W0213_BL	10 A	8	3 m
STANDARD			
RF-LZ-16A9G-2.5_BL	16 A	9	2,5 m

CONTROL PANEL WITH DISPLAY



DESCRIPTION

- The DPG1C model is activated by tilting
- Easy, intuitive way to adjust your desk
- With the DPG1C you have up to four memory positions
- The integrated reminder function of the DPG1M Desk Panel is visualized by light

CATALOG NUMBER
RF-001M-DPG1C

PRINTER SHELF



DESCRIPTION

- Four joints provide smooth horizontal adjustment and tilt angle regulation
- Dedicated for Zebra printers – perfect fit
- Coated with antistatic RAL 9003 paint

CAT. NO.	WIDTH	HEIGHT
RF-025-PPD-9003	215 mm	280 mm

LAPTOP SHELF



DESCRIPTION

- Easy horizontal, vertical and angular adjustment thanks to triple-jointed arm
- Coated with antistatic RAL 9003 paint

CAT. NO.	WIDTH	HEIGHT
RF-025-LH-9003	435 mm	300 mm



DOCUMENT HOLDER



DESCRIPTION

- Double-jointed arm allowing for horizontal and angular adjustment
- Coated with antistatic RAL 9003 paint

CATALOG NUMBER

RF-025-DH-9003

REECO LCD HOLDER



DESCRIPTION

- Four joints for full range of motion and angle adjustment
- VESA 50 - 75 - 100 standard ensures compatibility with most LCD screens
- Up to 7 kg load capacity for safe support of various monitor sizes
- Coated with antistatic RAL 9003 paint

CATALOG NUMBER

RF-025-VESA-9003

REECO LCD HOLDER



DESCRIPTION

- Mounting on a rail in bin system setups – saves workspace (rail sold separately)
- Adjustable screen position and tilt – supports ergonomic posture
- VESA standard 50 - 75 - 100
- Modern, aesthetic finish – matches system workbenches
- Coated with antistatic RAL 9003 paint

CATALOG NUMBER

RF-025-VESA012-9003

TV MOUNT FOR 750 FRAME



DESCRIPTION

- Serves as a module that allows mounting a TV to frames used in REECO furniture systems
- Coated with antistatic RAL 9003 paint

CAT. NO.

WIDTH

TV STANDARD

RF-025-TV-750-9003

750 mm

VESA

RF-025-TV-900-9003

900 mm

VESA

PROTECTIVE PANEL



DESCRIPTION

- Panel designed exclusively for mounting on the rear section of PREMIUM and PREMIUM ELECTRIC structures equipped with a perforated frame
- Coated with antistatic RAL 9003 paint

CAT. NO.

WIDTH

HEIGHT

RF-026-0750-9003

750 mm

300 mm

RF-026-0900-9003

900 mm

300 mm



CABLE DUCTS - VERTICAL AND HORIZONTAL



DESCRIPTION

- Cable ducts, as well as protective panels enables hiding of cables
- Intended only to be mounted on perforated frame on the back side of the Premium or Premium Electric table frame
- Coated with antistatic RAL 9003 paint

CAT. NO.	TYPE	LENGTH
RF-026H-0750-9003	Horizontal	750 mm
RF-026H-0900-9003	Horizontal	900 mm
RF-026U-1200-9003	Vertical	1200 mm

REECO HORIZONTAL AND VERTICAL CABLE DUCT

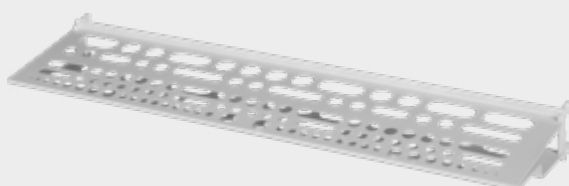


DESCRIPTION

- Allows you to hide the wires
- Mounted on a perforated frame
- Coated with antistatic RAL 9003 paint

CAT. NO.	TYPE	LENGTH
RF-026H-0751-9003	Horizontal	750 mm
RF-026H-0901-9003	Horizontal	900 mm
RF-026U-1201-9003	Vertical	1200 mm

UTILITY SHELF



DESCRIPTION

- Shelf was equipped with different size holes, which enable storage of differently sized tools
- Coated with antistatic RAL 9003 paint

CAT. NO.	WIDTH	DEPTH
RF-010N-0300-9003	300 mm	170 mm
RF-010N-0750-9003	750 mm	170 mm
RF-010N-0900-9003	900 mm	170 mm

PLIER HOLDER



RF-038-HP-84-092

DESCRIPTION

- Resistant to mechanical damage and daily wear and tear,
- Enables quick hanging and access to pliers, eliminating the need to search for tools,
- Frees up work surface space, increasing available room,
- Perfect for workshops, labs, storage areas, and offices,
- Quick and easy to install on perforated panels, racks, or Reeco furniture.

ELECTRIC/PNEUMATIC TOOL HOLDER



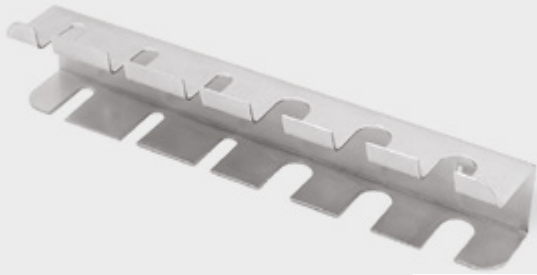
RF-038-HP-84-098

DESCRIPTION

- Hook for pneumatic wrenches
- Made of steel, one of Reeco's furniture accessories
- The hook makes it easier to hang up tools while working, helps to keep order and provides quick access to tools



HOOK FOR SCREWDRIVER

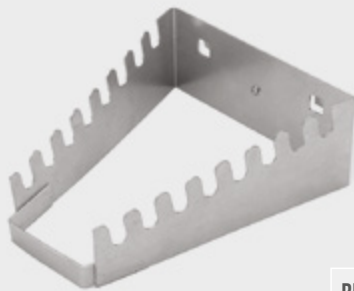


RF-038-HP-84-093

DESCRIPTION

- Hook for screwdriver
- Made of steel, one of Reeco's furniture accessories
- The hook makes it easier to hang up tools while working, helps to keep order and provides quick access to tools

HOOK FOR THE OPEN-ENDED WRENCHES



RF-038-HP-84-094

DESCRIPTION

- High resistance to damage thanks to durable steel construction
- Special shape perfectly suited for open-ended wrenches, ensuring secure storage
- Quick installation on perforated panels and compatibility with REECO furniture
- Allows convenient hanging of tools, eliminating clutter and optimizing workspace layout
- Easy access to tools reduces the time spent searching for them

SINGLE AND DOUBLE HOOKS



DESCRIPTION

- The shelf is equipped with holes of various sizes, allowing storage of tools in different dimensions.

CATALOG NUMBER	NUMBER OF HOOKS	LENGTH	PACKAGING
RF-038-HP-84-090	1	25 mm	1 pc.
RF-038-HP-84-095	1	40 mm	5 pcs.
RF-038-HP-84-097	1	85 mm	5 pcs.
RF-038-HP-84-096	2	40 mm	3 pcs.

SLIDING PIECE



DESCRIPTION

- Made of galvanized steel and rolling bearings
- Travel speed is up to 80 m/min.
- Max. load capacity - 20 kg

CATALOG NUMBER

RF-023-WK-S1

REECO HEIGHT-ADJUSTABLE FOOTREST



DESCRIPTION

- Freestanding footrest enhancing operator ergonomics and working comfort
- Adjustable height (7–26 cm) and tilt angle (5°–30°)
- Coated with antistatic RAL 9003 paint

CATALOG NUMBER	WIDTH	DEPTH	HEIGHT
RF-021-FOOTREST-9003	600 mm	420 mm	370 mm



RJ45 PORT



RF-025-2XRJ45-7021

DESCRIPTION

- Accommodates two RJ45 ports – streamlined cable management
- Made of antistatic materials – effective ESD protection
- Easy installation – fast mounting in technical systems
- Compact dimensions – efficient use of workspace
- Durable and dependable – ideal for demanding environments

MULTI BOX 4 SOCKETS



RF-MB-CZ-4G-UAG-RJ

DESCRIPTION

- Compact design is perfect for when space is limited
- Extension cord keeps any workspace neat and tidy
- In the top part it has a built - in inductive charger
- The socket is equipped with a 1.7m cable ended with a euro plug and 2 power cords of 2m in length

STANDARD EQUIPMENT

- 4 sockets (230V AC max 16A)
- 2x RJ45 port
- 1x USB A (5.0V 3.1A 15.5W total)
- inductive charger (5V DC,5W max)
- 1x USB C (5.0V 3.1A 15.5W total)

REECO 38/26 2-DRAWER UNIT



DESCRIPTION

- Drawer unit mounted underneath the worktop
- Equipped with 2 drawers of equal size: 277 x 445 x 70 mm
- Locked with a central locking system
- Coated with antistatic RAL 9003 paint

CATALOG NUMBER	WIDTH	DEPTH	HEIGHT
RF-016-3826-9003	380 mm	520 mm	260 mm

REECO 45/67 4-DRAWER UNIT



DESCRIPTION

- Entire unit secured with a central key lock
- Equipped with 4 drawers of different sizes:
 - 1st drawer: 345 x 445 x 70 mm
 - 2nd and 3rd drawers: 345 x 445 x 110 mm
 - 4th drawer: 345 x 445 x 147 mm
- Coated with antistatic RAL 9003 paint

CATALOG NUMBER	WIDTH	DEPTH	HEIGHT
RF-016-4567-9003	455 mm	520 mm	700 mm



REECO 45/66 WHEELED 4-DRAWER UNIT



DESCRIPTION

- Drawer unit with auxiliary top on wheels
- Top surface equipped with edge stops on three sides
- Includes 4 drawers of varying heights (9, 13, and 16 cm)
- 4 swivel castors, 2 with brakes
- Wheel diameter: 50 mm
- Coated with antistatic RAL 9003 paint

CATALOG NUMBER	WIDTH	DEPTH	HEIGHT
RF-016-4566-9003	455 mm	520 mm	700 mm

ONE-DRAWER SUSPENDED CABINET WITH DOORS



DESCRIPTION

- Compact and functional metal cabinet, coated with antistatic RAL 9003 paint
- Equipped with a practical drawer and hinged doors, with one fixed shelf inside the cabinet
- Doors and drawer lockable with a key
- Doors can be mounted on the left or right side
- Can be mounted under the Classic or Premium workbench
- Drawer dimensions: 345 x 445 x 70 mm
- Compartment dimensions (W x D x H): 445 x 495 x 480 mm

CATALOG NUMBER	WIDTH	DEPTH	HEIGHT
RF-016-40435-9003	450 mm	515 mm	700 mm

REECO WHEELED, ONE-DRAWER UNIT WITH DOORS

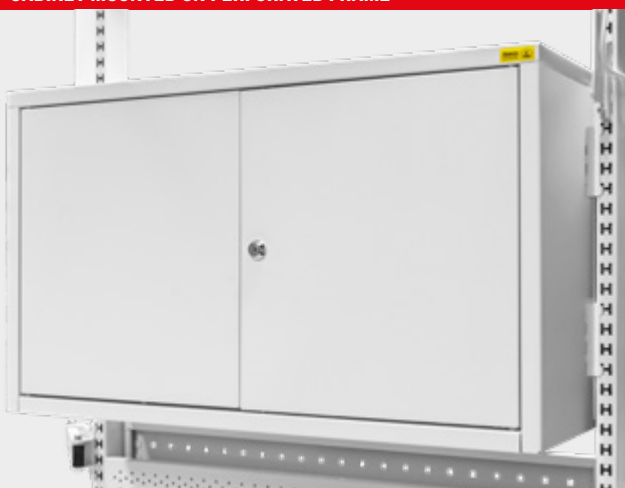


DESCRIPTION

- Compact and functional metal cabinet, coated with antistatic RAL 9003 paint
- Equipped with a practical drawer and hinged doors, with one fixed shelf inside the cabinet
- Doors and drawer lockable with a key
- Doors can be mounted on the left or right side
- ESD wheels with a diameter of 50 mm
- Drawer dimensions: 345 x 445 x 70 mm
- Compartment dimensions (W x D x H): 445 x 495 x 480 mm

CATALOG NUMBER	WIDTH	DEPTH	HEIGHT
RF-016-40436-9003	450 mm	515 mm	700 mm

CABINET MOUNTED ON PERFORATED FRAME



DESCRIPTION

- Can be mounted on Reeco modular carts
- Has a lock to prevent unfastening from the perforated frame
- Rear wall perforated with possibility of attaching key organizers or tool hooks
- Equipped with height - adjustable shelf
- Double door with 2 - point cylinder lock
- Coated with antistatic RAL 9003 paint

CATALOG NUMBER	WIDTH	DEPTH	HEIGHT
RF-016-0750-9003	720 mm	300 mm	500 mm
RF-016-0900-9003	870 mm	300 mm	500 mm



REECO ESD CLASSIC TROLLEY WITH 2 SHELVES



DESCRIPTION

- Ideal as a mobile storage or additional ergonomic workspace
- Can be used as a table extension
- Table top 690 x 480 x 26.6 mm with a moisture resistant and high strength conductive core, covered with a 0.7 mm thick conductive HPL laminate.
- The construction ensures smooth height adjustment of the top from 665 mm to 1100 mm.
- Coated with antistatic RAL 9003 paint

CATALOG NUMBER	WIDTH	DEPTH	HEIGHT
RF-028-450700-9003	790 mm	950 mm	990 mm

ESD CLASSIC TROLLEY (3 SHELVES)



DESCRIPTION

- Ideal solution as a mobile storage unit or additional ergonomic workspace
- Can be used as a side extension to a workstation
- Worktop with a conductive, moisture-resistant, high-strength core, coated with conductive melamine
- The frame enables height adjustment of the top shelf within the range of 665 – 1100 mm
- Optional handle available separately
- Coated with antistatic RAL 9003 and RAL 7021 paint

CATALOG NUMBER	WIDTH	DEPTH	HEIGHT
RF-028-510700-9003	690 mm	480 mm	1100 mm

PLATFORM ESD TROLLEY



DESCRIPTION

- Reinforced ESD Cart with Adjustable Upper Shelf Height
- Height adjustment range: 690 – 990 mm
- Maximum cart load capacity: 300 kg
- Maximum dynamic load on 4 wheels: 450 kg
- ESD wheels with 80 mm diameter
- Shelf dimensions: 1000 x 600 mm (upper), 1000 x 560 mm (lower)
- Maximum load: 300 kg (upper shelf), 200 kg (lower shelf)
- Coated with antistatic RAL 9003 and RAL 7021 paint

CATALOG NUMBER	WIDTH	DEPTH	HEIGHT
RF-028-100600-9003	1000 mm	600 mm	690-990 mm

PLATFORM TROLLEY



DESCRIPTION

- A trolley designed to transport a large number of elements or objects of large size
- The total load of the trolley is 300 kg
- Four 125 mm diameter swivel wheels for easy manoeuvring of the trolley
- Coated with antistatic RAL 9003 paint

CATALOG NUMBER	WIDTH	DEPTH	HEIGHT
RF-028-780950-9003	780 mm	940 mm	990 mm



ESD CLASSIC TROLLEY (3 SHELVES)



DESCRIPTION

- Ideal solution for transporting containers
- 4 ESD wheels 75 mm (2 with brake, 2 without brake)
- 3 shelves coated with ESD paint as standard
- External shelf dimensions: 700 × 535 mm
- Internal shelf dimensions: 630 × 460 mm
- Maximum container height on lower and middle shelf: 200 mm
- Coated with antistatic RAL 9003 paint

CATALOG NUMBER	WIDTH	DEPTH	HANDLE HEIGHT
RF-028-617407-9003	700 mm	535 mm	840 1110 mm

ESD TROLLEY (1850X1140X815MM) - 4 SHELVES



DESCRIPTION

- Enclosed ESD trolley with 4 shelves in standard
- Up to 8 shelves can be mounted
- Distance between shelves: 173 mm
- Slide - in shelves can be repositioned as desired
- 4 ESD wheels 125 mm (2 with brake, 2 without brake)
- Coated with antistatic RAL 9003 paint

CATALOG NUMBER	WIDTH	DEPTH	HEIGHT
RF-028-17611069-4-9003_1	1100 mm	800 mm	1815 mm

ESD TROLLEY (1850X1140X815MM) - 4 SHELVES



DESCRIPTION

- Enclosed ESD trolley with 4 shelves in standard
- Up to 8 shelves can be mounted
- Distance between shelves: 173 mm
- Slide - in shelves can be repositioned as desired
- 4 ESD wheels 125 mm (2 with brake, 2 without brake)
- Coated with antistatic RAL 9003 paint

CATALOG NUMBER	WIDTH	DEPTH	HEIGHT
RF-028-17611069-4-9003_2	1140 mm	815 mm	1850 mm

ESD TROLLEY (1815X1100X800MM) - 4 SHELVES



DESCRIPTION

- Enclosed and lockable ESD trolley with 4 shelves in standard
- Up to 8 shelves can be mounted
- Distance between shelves: 173 mm
- Slide - in shelves can be repositioned as desired
- 4 ESD wheels 125 mm (2 with brake, 2 without brake)
- Coated with antistatic RAL 9003 paint

CATALOG NUMBER	WIDTH	DEPTH	HEIGHT
RF-028-17611069-4-9003_3	1140 mm	815 mm	1850 mm



REECO TRANSPORT TROLLEY



DESCRIPTION

- Transport trolley with perforated frame
- Perforated frame allows for mounting additional accessories such as perforated panels, shelves, and bins
- 1 lower shelf with stoppers
- ESD version
- Can be equipped with accessories such as bins, shelves, perforated panels
- 4 swivel ESD wheels 125 mm, 2 with brake
- Coated with antistatic paint RAL 9003

CATALOG NUMBER	WIDTH	HEIGHT
RF-024-0750-9003	750 mm	1785 mm
RF-024-0900-9003	900 mm	1785 mm

EXAMPLE CONFIGURATION



ESD 3-TOP CART WITH KEYBOARD TRAY



DESCRIPTION

- Ideal as mobile storage or additional ergonomic workspace
- Can be used as a table attachment
- Table top with moisture resistant, high strength conductive melamine core
- Infinitely adjustable top height
- Coated with antistatic RAL 9003 and RAL 7021 paint
- Pull - out keyboard shelf
- Table top dimensions:
 - Upper top: 750x750 mm (other configuration possible)
 - Bottom x2: 550x600 mm
 - Extendable shelf: 560x545 mm

CATALOG NUMBER	WIDTH	DEPTH
RF-028-750750-4-9003	750 mm	750 mm



ESD 3-TOP CART WITH KEYBOARD TRAY



DESCRIPTION

- Ideal as mobile storage or additional ergonomic workspace
- Can be used as a table attachment
- Table top with moisture resistant, high strength conductive melamine core
- Infinitely adjustable top height
- Coated with antistatic RAL 9003 and RAL 7021 paint
- Pull - out keyboard shelf
- Table top dimensions
 - Upper top: 750x750 mm (other configuration possible)
 - Bottom x2: 550x600 mm
 - Extendable shelf: 560x545 mm

CATALOG NUMBER	WIDTH	DEPTH
RF-028-750750-4-9003_1	750 mm	750 mm

LAPTOP CART



DESCRIPTION

- Fully ESD-protected construction
- Height adjustable within the range: 650 – 1000 mm
- Worktop dimensions: 600 × 478 mm
- 4 swivel casters, 2 with brakes
- Caster diameter: 75 mm
- Coated with antistatic RAL 9003 paint

CATALOG NUMBER	WIDTH	DEPTH	HEIGHT
RF-028-6045-9003	600 mm	478 mm	1000 mm

WASTE BIN PSO 1 (GREY LID)



DESCRIPTION

- Coated with antistatic RAL 9003 paint
- Adjustable leveling feet
- Self-closing waste inlet lid
- Slide-out bag holder mounted on ball-bearing guides
- Angled design prevents waste accumulation on the container surface
- Front door with key lock for easy bag access
- Inlet opening dimensions: 205 × 225 mm
- Compatible with 120-liter waste bags

CATALOG NUMBER	WIDTH	DEPTH	HEIGHT
RF-097-PSO1-120	355 mm	355 mm	1075 mm

**19" RACK CABINET 6HU ESD****DESCRIPTION**

- 10 adjustable RACK profiles
- Cabinet mounting on two handles - adjustable to the tabletop
- Unscrewable rear cover divided into 3 parts
- Cable entry in the lower wall over the entire width of the cabinet
- Ventilation holes in the upper and lower wall
- Safety module on the right - hand side of the cabinet equipped with a safety plug, 16A 30mA AC residual current fuse, 4 overcurrent circuit breakers S301 B16 and a 3x10 mm² strip
- 4 external 230V/16A sockets at the rear of the safety module
- Power supply cable 230V/16A, 3 m long
- 2 grounding points
- Entire structure made with ESD technology
- 1 2WU plug and 2 1WU plugs
- Self - assembly cabinet, supplied in one package

CATALOG NUMBER	WIDTH	DEPTH	HEIGHT
RF-022-1209-9003	1200 mm	340 mm	350 mm
RF-022-1509-9003	1500 mm	340 mm	350 mm
RF-022-1809-9003	1800 mm	340 mm	350 mm

REECO 6U19" OPEN RACK CABINET, HORIZONTAL**DESCRIPTION**

- 6U19" RACK Cabinet
- Mounted on a perforated frame
- Coated with ESD 9003 paint

CATALOG NUMBER	WIDTH	DEPTH	HEIGHT
RF-022-07502-9003	540 mm	316 mm	348 mm
RF-022-09002-9003	540 mm	316 mm	348 mm


REECO 6U1526 DIGITAL MULTIMETER FOR RACK CABINET


RF-6U1526

DESCRIPTION

- Measurement: AC voltage, DC voltage, AC current, DC current, resistance, capacitance, temperature, frequency, inductance, diode test, transistor test

AC VOLTAGE	0,4; 4; 40; 400; 700 V
DC VOLTAGE	0,4; 4; 40; 400; 1000 V
AC CURRENT	0,04; 0,4; 10 A
DC CURRENT	0,004; 0,4; 10 A
WIDTH	120 mm

REECO 6U1551 THREE-PHASE AUTOTRANSFORMER FOR THE RACK CABINET


RF-6U1551

DESCRIPTION

- Powered by $3 \times 230 \text{ V} / 50 \text{ Hz}$, the transformer offers a wide regulation range from $3 \times 5 \text{ V}$ to $3 \times 230 \text{ V AC}$. Each of the three phases can deliver up to 2 A of current, making it suitable for a broad spectrum of applications in industry and environments that demand full control over power distribution.

SUPPLY VOLTAGE	$3 \times 230 \text{ V} / 50 \text{ Hz}$
OUTPUT VOLTAGE	$3 \times 5 - 230 \text{ V}$
MAX. OUTPUT CURRENT	$3 \times 2 \text{ A}$
WIDTH	240 mm

6U155 ADJUSTABLE LABORATORY POWER SUPPLY


RF-DC 6U155

DESCRIPTION

- The 6U155 model provides smooth voltage adjustment from 0 to 30 V and current from 0.1 to 4 A, along with a fixed 5 V/3 A output. A clear, backlit panel features digital displays for accurate reading and fast parameter adjustment, making this power supply ideal for both professional and educational settings

VOLTAGE RANGE	0 – 30 V
CURRENT RANGE	0,1 – 4 A
FIXED OUTPUT	5 V / 3 A
DISPLAY TYPE	Digital, backlit
PROTECTIONS	Overvoltage, overload, short-circuit

6U1541 ADJUSTABLE LABORATORY POWER SUPPLY


RF-DC 6U1541

DESCRIPTION

- The 6U1541 power supply features two independent channels, each offering smooth voltage adjustment from 0 to 40 V and current up to 3 A. In addition, it includes a fixed 5 V/3 A output. Each output is equipped with an illuminated switch, making it easier to monitor and control the operation of connected devices

ADJUSTABLE VOLTAGE	$2 \times 0 - 40 \text{ V}$
ADJUSTABLE CURRENT	$2 \times 0 - 3 \text{ A}$
FIXED OUTPUT	5 V / 3 A
OUTPUT SWITCHES	Illuminated
PROTECTIONS	Overload, overvoltage, short circuit



SOLO 10A CHAIR



RE-SOLO10A

DESCRIPTION

- Five-pointed star polished aluminium base
- Adjustable seat height 46.5-55 cm
- Ergonomic, moulded seat made of plywood and hardwood, coated with polyurethane foam (PU) - guarantee of excellent resistance on bending and maximum seating comfort
- Shelled back - contoured shape of the back, especially in the lumbar spine, significantly improves work comfort and positively impacts ergonomics
- Height, seat depth and angle adjustment
- Antistatic fabric with specially fused graphite thread combined with metallic elements of the construction
- Seat dimensions: 480 x 460 mm (width x depth)

Armrest for chair SOLO-10A

RE-COMFORT-C-AR

Footrest for chair SOLO-10A

RE-SOLO10A-FR

REECO S-20E POLYURETHANE ANTISTATIC CHAIR



RE-SOLO20E

DESCRIPTION

- Specialist laboratory chair with a handle in the upper part of the backrest for easy carrying
- Five - star shaped base - high durability and stability
- Gas shock absorber - adjustable seat height from 42 - 55 cm
- Height, depth, and backrest tilt adjustment
- Non-slip seat and backrest surface made of soft, contoured black polyurethane (PU)
- Antistatic structure and components
- Seat dimensions: 420 x 460 mm (depth x width)

Armrest for chair SOLO-20E

RE-COMFORT-C-AR

Footrest for chair SOLO-20E

RE-SOLO10A-FR

PREMIUM-S ANTISTATIC CHAIR



RE-PREMIUM-S

DESCRIPTION

- Five-star base made of polished aluminum (solid, reinforced aluminum casting)
- Antistatic, non-marking casters as standard, option to replace casters with glides
- ESD armrests included as standard
- Upholstered, precisely contoured seat
- Backrest made of high-quality foam, ergonomically shaped
- Fabric color: navy blue
- Base width: 700 mm
- Seat dimensions: 500 x 480 mm | Backrest dimensions: 450 x 590 mm
- Synchronized tilt adjustment of backrest and seat via a single lever

Armrest for chair PREMIUM-S

RE-COMFORT-C-AR

Footrest for chair PREMIUM-S

RE-SOLO10A-FR



COMFORT-C ANTISTATIC CHAIR



RE-COMFORT-C

DESCRIPTION

- Five-star base made of polished aluminum (solid, reinforced aluminum casting)
- Antistatic, non-marking casters as standard, option to replace casters with glides
- Upholstered, comfortable seat
- Maximum load capacity: 150 kg
- Backrest made of high-quality foam, ergonomically contoured shape
- Fabric color: navy blue, grey
- Seat dimensions: 490 × 460 mm | Backrest dimensions: 450 × 550 mm
- Synchronized tilt adjustment of backrest and seat via a single lever

Armrest for chair COMFORT-C

RE-COMFORT-C-AR

Footrest for chair COMFORT-C

RE-SOLO10A-FR

WERKSITZ CLASSIC -GMP LAB CHAIR



WR-WS1220 E XL ESD

DESCRIPTION

- Height adjustment capability
- Made of high-conductivity material
- Seat color: black
- Seat diameter: 335 mm
- Height adjustment: up to 850 mm
- Caster diameter: 50 mm

WERKSITZ CLASSIC



WR-WS1211 E ESD

DESCRIPTION

- Height-adjustable
- Made of high-conductivity material
- Seat color: black
- Seat diameter: 335 mm
- Maximum height adjustment: 850 mm

OPTIONAL EQUIPMENT

- Wheels with a diameter of 50 mm



ESD NEON



DESCRIPTION

- ESD Neon chair – a combination of ergonomics, comfort, and modern design. It meets the highest technical requirements, far exceeding current ESD standards.
- Permanent contact backrest
- Seat height 450 - 620 mm
- Changeable upholstery elements
- Ergonomic package composed of: Weight adjustment, Seat depth adjustment, adjustable seat inclination and backrest adjustable in height
- Aluminium base
- Conductive acc. to EN 61340-5-1

BASE OPTIONS

- Glides
- Castors

ACCESSORIES

- Footrest

ESD NEXXIT



DESCRIPTION

- ESD Nexxit chair – ergonomic and durable, ensuring correct sitting posture, comfort, and reliability in demanding industrial environments
- Synchronous mechanism with automatic weight regulation
- Seat height 450 - 600 mm
- Ergonomic package composed of: Seat depth adjustment, adjustable seat inclination and backrest adjustable in height
- Steel base
- Conductive acc. to EN 61340-5-1

BASE OPTIONS

- Glides
- Castors

ACCESSORIES

- Footring

ESD CHAIR



RE-HM-6418240

DESCRIPTION

- Material: antistatic polyurethane
- Color: black
- Seat dimensions: 350 × 320 mm
- Backrest dimensions: 170 × 150 mm
- Seat tilt adjustment function (forward), as well as height adjustment (up and down)
- Base diameter: 400 mm
- Height adjustment range: 615 – 865 mm
- Surface resistance: $10^4 - 10^9 \Omega$

ESD STOOL



RE-HM-6408240

DESCRIPTION

- Material: antistatic polyurethane
- Color: black
- Seat dimensions: 330 × 230 mm
- Backrest dimensions: 170 × 150 mm
- Seat tilt adjustment function (forward), as well as height adjustment (up and down)
- Base diameter: 400 mm
- Height adjustment range: 615 – 865 mm
- Surface resistance: $10^4 - 10^9 \Omega$



ESD STOOL



RE-HM-6415390

DESCRIPTION

- Material: ESD vinyl
- Color: black
- Seat dimensions: 380 x 250 mm
- Seat height adjustment: up and down
- Height adjustment range: 680 – 910 mm
- Surface resistance: $10^4 - 10^9 \Omega$

ANTISTATIC CASTER CHAIR



RE-HM-6413A

DESCRIPTION

- Height adjustable
- Made of material with excellent conductivity
- Seat color: black
- Seat diameter: 335 mm
- Height range: 560 – 850mm
- Caster diameter: 50mm

REECO 20A ANTISTATIC CHAIR



RE-HLP20A

DESCRIPTION

- Non - slip seating surface made of soft, molded black material (PU)
- Guarantee of excellent resistance to crushing and maximum seating comfort
- Seat color: black
- Seat diameter: 330mm
- Height adjustment range: 410 - 540 mm
- Wheel diameter: 50mm
- Base width: 700mm

ESD CHAIR FEET



RE-SOLO10A-FT

DESCRIPTION

- Stable alternative to casters
- Wide compatibility
- Easy installation
- High durability
- Effective ESD protection
- Diameter: 50 mm
- Weight: 0.25 kg
- Material: polypropylene

SOLO CHAIR CASTORS, CONDUCTING



RB-KCZ/K1

DESCRIPTION

- Non-marking ESD Castor for SOLO Chairs
- Diameter: 50 mm
- Maximum Load: 40 kg
- Weight: 0.15 kg
- Bearing: plain
- Material: plastic

REECO ARMREST FOR CHAIR



RE-COMFORT-C-AR

DESCRIPTION

- Dedicated for COMFORT-C series chairs
- Structure: black nylon
- Material: polypropylene
- Adjustment: up, down
- Weight: 0.6 kg

ADJUSTABLE ESD ARMREST



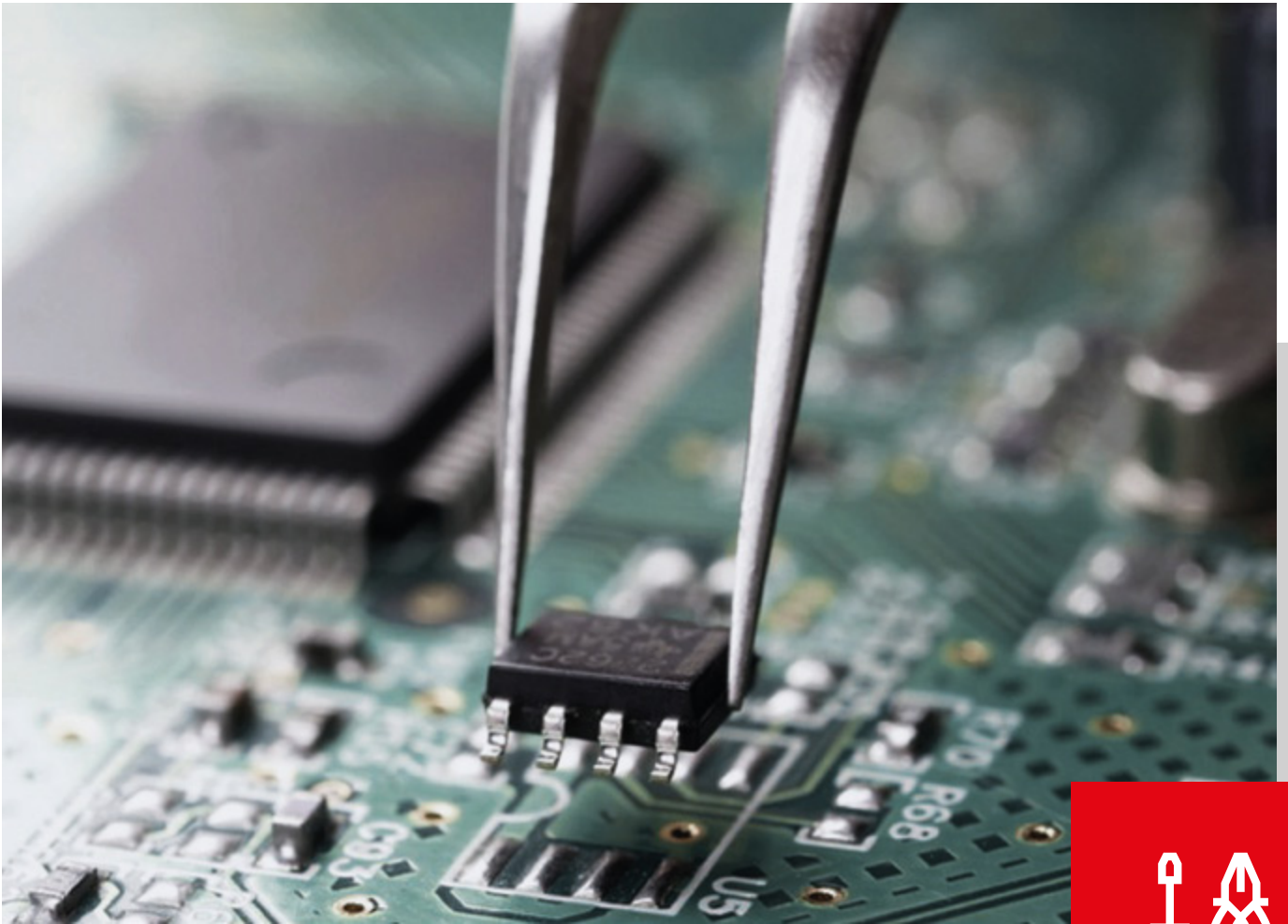
RE-ARMREST-ESD

DESCRIPTION

- Dedicated for SOLO 10A and SOLO 20E chairs
- Intuitive assembly
- Structure: black nylon
- Material: polypropylene
- Adjustment: up, down
- Weight: 1,2 kg

NOTES SECTION

A large grid of small dots for taking notes, consisting of 20 columns and 30 rows.



HAND TOOLS

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DELVO ELECTRIC SCREWDRIVERS - DLV30S/45S/70S SERIES



DESCRIPTION

- For 2,5 - 8,0 mm screws
- Built-in brushless motor
- Built-in screw counting function
- Up to eight types of motion setting or up to 8 channels can be saved in the screwdriver
- Setting with the Remote Controller RC100
- Automatic screw counting function
- Compliant with IEC61340-5-1
- LCD display
- Built-in Security Function

CAT. NO.	LEVER START	DE-DLV30S06L-AY	DE-DLV30S12L-AY	DE-DLV30S20L-AY	DE-DLV45S06L-AY	DE-DLV45S12L-AY	DE-DLV70S06L-AY
	PUSH TO START		DE-DLV30S12P-AY	DE-DLV30S20P-AY	DE-DLV45S06P-AY	DE-DLV45S12P-AY	DE-DLV70S06P-AY
INPUT VOLTAGE		45 V DC					
POWER CONSUMPTION		44 W					
TORQUE		0,4 - 1,6 Nm (Low Torque Spring)			2,0 - 4,5 Nm		3,8 - 7,0 Nm
		1,2 - 3,0 Nm (High Torque Spring)			2,0 - 4,5 Nm		3,8 - 7,0 Nm
FREE SPEED		160 - 2000 (rpm)					
SCREW SIZE	MACHINE SCREW	2,6 - 5,0 mm			4,5 - 6,0 mm		5,0 - 8,0 mm
	TAPPING SCREW	2,5 - 4,0 mm			4,0 - 5,0 mm		4,5 - 6,0 mm
BIT TYPE (MM)							
WEIGHT		0,71 kg			0,86 kg		
STANDARD EQUIPMENT							
BIT NO. 2 X 7 X 75		1					
SPRING FOR LOW TORQUE		1			-		
CONNECTION CORD 9073		1					
SUSPENSION BAIL		1					

CONTROLLERS FOR DLV30S/45/70S SERIES



DE-DEA0151N-AZ

DE-DEA0241N-AZ

SPECIFICATION

CAT. NO.	DE-DEA0151N-AZ	DE-DEA0241N-AZ
INPUT	100 - 240 V AC, 50/60 Hz	
MAX. POWER	150 W	240 W
WEIGHT	0,56 kg	0,9 kg

* Power cord to be ordered separately (DE-DLW9240)

CONTROLLERS SELECTION TABLE FOR DLV30S/45/70/S SERIES

DE-DEA0151N-AZ		DE-DEA0241N-AZ			
DE-DLV30S06L-AY		DE-DLV30S06L-AY		DE-DLV45S06L-AY	DE-DLV45S06P-AY
DE-DLV30S12L-AY	DE-DLV30S12P-AY	DE-DLV30S12L-AY	DE-DLV30S12P-AY	DE-DLV45S12L-AY	DE-DLV45S12P-AY
DE-DLV45S06L-AY	DE-DLV45S06P-AY	DE-DLV30S20L-AY	DE-DLV30S20P-AY	DE-DLV70S06L-AY	DE-DLV70S06P-AY



DELVO ELECTRIC SCREWDRIVERS - DLV7400A



DESCRIPTION

- For miniature screws: 1,0 - 2,6 mm
- Reduces shock applied to workpieces when fastening screws
- Stepless torque adjustment
- The controller provides a soft start function
- ESD protection compliant with IEC61340-5-1
- Lightweight
- The initial speed at screwdriver startup can therefore be slowed down, effectively preventing screw heads from being scratched
- High torque accuracy

CAT. NO.		DE-DLV7410A-BME	DE-DLV7420A-BME
STARTING METHOD		Lever Start	
INPUT VOLTAGE		40 V DC	
POWER CONSUMPTION		Approx. 10 W	
TORQUE		0,02 ~ 0,2 Nm	0,15 ~ 0,4 Nm
FREE SPEED		500 ~ 750 (rpm)	450 ~ 600 (rpm)
SCREW SIZE	MACHINE SCREW	1,0 - 2,3 mm	1,6 - 2,6 mm
	TAPPING SCREW	1,0 - 2,0 mm	1,4 - 2,3 mm
BIT TYPE (MM)			
WEIGHT		0,23 kg	
STANDARD EQUIPMENT			
BIT NO. 0 X 1,8 X 44		1	-
BIT NO. 0 X 2,5 X 44		1	1
BIT NO. 1 X 4 X 44		-	1
CONNECTION CABLE DLW9070		1	1
SPRING FOR LOW TORQUE		1	-

CONTROLLER FOR DLV7400A SERIES



DE-DLC1110-G6

SPECIFICATION

- Input voltage 230 V AC, 50/60 Hz
- Soft start function prevents screw heads from being scratched
- Speed control
- Mass: 0,9 kg
- Dimensions: 91 x 150 x 52 mm
- Power cord 2 m long
- ESD protection compliant with IEC61340-5-1



DELVO ELECTRIC SCREWDRIVERS - DLV7300



DESCRIPTION

- For miniature screws: 1,0 - 3,5 mm
- Reduces shock applied to workpieces when fastening screws
- Stepless torque adjustment
- Lightweight
- High repeatable torque accuracy
- Variable speed adjustment enables to select optimum screw tightening speed
- Power cord 1,5 m long
- Easy change of working direction
- Suspension bail

MODEL	DE-DLV7323-CKE	DE-DLV7321-BKE	DE-DLV7333-CKE	DE-DLV7331-BKE
ESD VERSION	No	Yes	No	Yes
STARTING METHOD	Lever start			
INPUT VOLTAGE	36 V DC			
POWER CONSUMPTION	35 W			
TORQUE	0,05 - 0,5 Nm		0,3 - 1,2 Nm	
FREE SPEED	700 - 1,000 (rpm)		500 - 700 (rpm)	
SCREW SIZE	MACHINE SCREW	1,0 - 3,0 mm		2,0 - 3,5 mm
	TAPPING SCREW	1,2 - 2,6 mm		2,0 - 3,0 mm
BIT TYPE (MM)				
WEIGHT	0,35 kg			
STANDARD EQUIPMENT				
BIT NO. 1 x 7 x 50	1	1	1	1
BIT NO. 2 x 7 x 50	1	1	1	1
CONNECTION CORD	1			

CONTROLLER FOR DLV7300 SERIES



DE-DLC1213A-6G

SPECIFICATION

- Input voltage 230 V AC, 50/60 Hz
- Soft start function prevents screw heads from being scratched
- Speed control
- Weight: 2,3 kg
- Dimensions: 143x145x102 mm
- Power cord 2m long



DELVO ELECTRIC SCREWDRIVERS - DLV7500/8500 SERIES



DESCRIPTION

- For miniature screws: 2,6-6 mm
- ESD protection compliant with IEC61340-5-1
- Stepless torque adjustment
- Easy gripping and compact design
- Easy change of working direction
- Suspension bail
- The combination of an advanced clutch design and the auto-stop circuit assures torque accuracy

SPECIFICATION		STANDARD		HIGH TORQUE	STANDARD		HIGH TORQUE
CAT. NO.	STANDARD	DE-DLV7530-MKE	DE-DLV7540-MKE	-	DE-DLV8530-MKE	DE-DLV8540-MKE	DE-DLV8550-MKE
	ESD VERSION	DE-DLV7530-BKE	DE-DLV7540-BKE	DE-DLV7550-BKE	DE-DLV8530-BKE	DE-DLV8540-BKE	DE-DLV8550-BKE
STARTING METHOD		Lever start			Push to start		
INPUT VOLTAGE		59 V DC					
TORQUE		0,5 - 1,7 Nm	1,2 - 2,7 Nm	2,0 - 4,5 Nm	0,5 - 1,7 Nm	1,2 - 2,7 Nm	2,0 - 4,5 Nm
FREE SPEED		1,100 (rpm)	700 (rpm)	500 (rpm)	1,100 (rpm)	700 (rpm)	500 (rpm)
SCREW SIZE	Machine screw	2,6 - 4,0 mm	3,5 - 5,0 mm	4,5 - 6,0 mm	2,6 - 4,0 mm	3,5 - 5,0 mm	4,5 - 6,0 mm
	Tapping screw	2,3 - 3,5 mm	3,0 - 4,0 mm	4,0 - 5,0 mm	2,3 - 3,5 mm	3,0 - 4,0 mm	4,0 - 5,0 mm
BIT TYPE (MM)							
WEIGHT		0,65 kg		0,75 kg	0,65 kg		0,75 kg
STANDARD EQUIPMENT							
BIT NO. 1 X 7 X 75		1		-	1		-
BIT NO. 2 X 7 X 75		1		1	1		1
BIT NO. 3 X 7 X 50		-		1	-		1
CONNECTION CORD		1					
SPARE CARBON BRUSH		2					
SUSPENSION BAIL		1					

CONTROLLERS FOR DLV7500/8500 SERIES



DE-DLC4511-GGB



DE-DLR1510-JE

SPECIFICATION

CAT. NO.	DE-DLC4511-GGB	DE-DLR1510-JE
INPUT VOLTAGE	230V AC, 50/60 Hz	
WEIGHT	3,5 kg	5,1 kg
FUNCTION	Stepless speed adjustment Soft start ESD External output signals: start and torque up	Screw counting Setting protection by key lock switch Setting by touch switch for easy operation External output signals: Start, Torque up, Count up & Cycle OK
DIMENSIONS	139 x 140 x 81,5 mm	143 x 177 x 126 mm

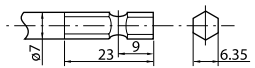


DELVO ELECTRIC SCREWDRIVER - DLV02/12/16 SERIES



DESCRIPTION

- For screws 1,0 - 4,2 mm
- Brushless motors are incorporated for maximum tool life
- Stepless torque adjustment
- Grounded bit system standard
- Clear plastic torque adjustment cover
- Forward/Reverse changeover switch
- Ergonomic grip offers greater operator comfort and increased maneuverability
- Variable speed adjustment
- As standard, the power supply

CAT. NO.		DE-DLV02SL-CKE	DE-DLV12SL-CKE	DE-DLV16SL-CKE
STARTING METHOD		Lever start		
INPUT VOLTAGE		20 - 30 V DC		
TORQUE		0,03 - 0,2 Nm	0,15 - 1,2 Nm	0,2 - 1,6 Nm
FREE SPEED		700 - 1000 (rpm)		
BIT TYPE (mm)				
SCREW SIZE	MACHINE SCREW	1,0 - 2,2 mm	1,4 - 3,0 mm	2,2 - 4,0 mm
	TAPPING SCREW	1,0 - 2,0 mm	1,4 - 2,6 mm	2,0 - 3,0 mm
POWER CONSUMPTION		48 W		
WEIGHT		0,47 kg		
STANDARD EQUIPMENT				
BIT NO. 0 X 3,8 X 50		1	-	-
BIT NO. 1 X 3,8 X 50		1	1	1
BIT NO. 2 X 4,5 X 50		-	1	1
CONNECTION CORD		1		

CONTROLLER FOR DLV02/12/16 SERIES



DE-DLC16S-WGB

DESCRIPTION

- Input voltage 100-240 V AV, 50/60 Hz
- Speed control
- Power cord 1,6m long
- Weight 0,38 kg
- Dimensions: 65 x 150 x 46,3 mm
- Standard equipment for screwdriver series DLV02/12/16


DELVO ELECTRIC SCREWDRIVER - DLV30A/45A/70A SERIES

DESCRIPTION

- For screws: 2,6 mm - 8 mm
- Brushless motors are incorporated for maximum tool life
- Ergonomic grip offers greater operator comfort and increased maneuverability
- Start and Push to Start type models are available
- Equipped with a torque adjustment ring cover
- Easy to change direction of work

VERSION		LOW SPEED	STANDARD	HIGH SPEED	LOW SPEED	STANDARD	LOW SPEED
CAT. NO.	LEVER START	DE-DLV30A06L-ABK	DE-DLV30A12L-ABK	DE-DLV30A20L-ABK	DE-DLV45A06L-ABK	DE-DLV45A12L-ABK	DE-DLV70A06L-ABK
	PUSH TO START	DE-DLV30A06P-ABK	DE-DLV30A12P-ABK	DE-DLV30A20P-ABK	DE-DLV45A06P-ABK	DE-DLV45A12P-ABK	-
INPUT VOLTAGE		230 V AC, 50/60 Hz					
POWER CONSUMPTION		Approx. 45 W					
LOW TORQUE SPRING		0,4 - 1,6 Nm			2,0 - 4,5 Nm		3,8 - 7,0 Nm
HIGH TORQUE SPRING		1,2 - 3,0 Nm					
FREE SPEED		650 (RPM)	1200 (RPM)	2000 (RPM)	650 (RPM)	1200 (RPM)	650 (RPM)
MACHINE SCREW		2,6 - 5,0 mm			4,5 - 6,0 mm		6,0 - 8,0 mm
TAPPING SCREW		2,5 - 4,0 mm			4,0 - 5,0 mm		4,5 - 6,0 mm
BIT TYPE (MM)							
WEIGHT		0,70 kg			0,87 kg		
STANDARD EQUIPMENT							
MODEL		DLV30A			DLV45A/70A		
BIT NO. 2 X 7 X 75					1		
HOOK					1		
SPRING THAT ROTATES THE TORQUE		1			-		
CONNECTION CORD					1		



TORQUE CHECKERS DELVO



DE-DLT1673A



DE-DLT1173A

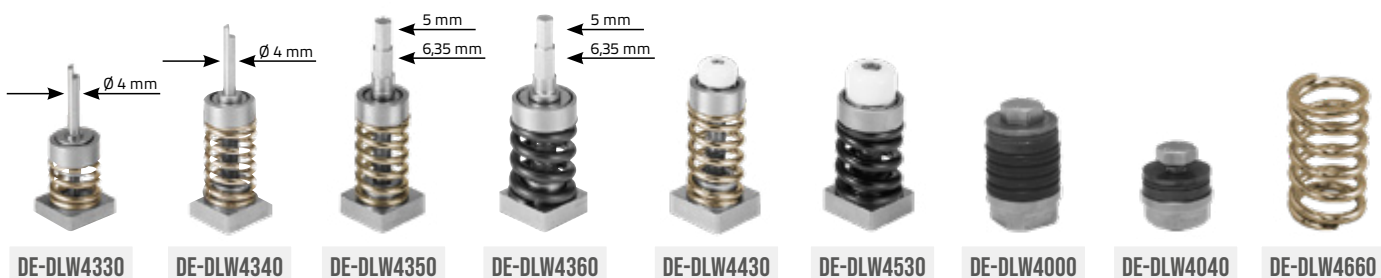
DESCRIPTION

- Devices with particular precision perform measurements of very small torques
- Measured data is stored even after the power is turned off, preventing any data loss
- Single charge of the battery is enough for 20 hours of work
- Energy saving type with AUTO POWER OFF function (Power is automatically turned off when left unused for 10 minutes)

CAT. NO.	DE-DLT1173A	DE-DLT1673A
MEASUREMENT RANGE	0,015 - 1,500 Nm	0,15 - 10,00 Nm
CALIBRATION PRECISION	+/- 0,5%	+/- 0,5%
DISPLAY	4-digit display (single-line); data sampling: 1000 times/sec.; display rate: 12 times/sec.	
MEASURING UNIT	kgf, cm, Nm, lbf.in (selectable)	
DATA MEMORY	800 pieces of data	
MEASURING DIRECTION	Clockwise / counterclockwise	
MEASURING MODE	3 MODES: PD-TR-PP	
AUTO POWER OFF	Power off if left untouched for 10 minutes	
EXTERNAL OUTPUT	USB	
ANALOG OUTPUT	Approx. 1,5 V max.	Approx. 1,0 V max.
CONTINUOUS OPERATION TIME	20 hours	
EXTERNAL DIMENSIONS	160 x 110 x 47 mm	
WEIGHT	1,1 kg	
CHARGER TYPE	DLE1833A	
INPUT VOLTAGE FOR CHARGER	100 - 240 V AC	
CHARGING TIME	4 hours	
STANDARD ACCESSORIES	DE-DLT1173A	DE-DLT1673A
SCREW JOINT	Screw Joint	Screw Joint Spring for Joint
MODEL	DE-DLW4430	DE-DLW4360 DE-DLW4660
MEASURING RANGE	0,15 - 1,5 Nm	0,15 - 6,5 Nm 0,15 - 1,5 Nm

OPTIONAL ACCESSORIES	CAT. NO.	SHAPE	TORQUE RANGE	DLT1173A	DLT1673A
BIT JOINT	DE-DLW4330	Type OD 4 mm	0,015 - 0,25 Nm	◊	-
	DE-DLW4340	Type OD 4 mm	0,15 - 1,5 Nm	◊	◊
	DE-DLW4350	Hex 5 and Hex 6,35 Type	0,15 - 1,5 Nm	◊	◊
	DE-DLW4360	Hex 5 and Hex 6,35 Type	0,15 - 6,5 Nm	-	•
COUPLING FOR CROSS-BITS	DE-DLW4430	Bit no. 1	0,15 - 1,5 Nm	•	◊
	DE-DLW4530	Bit no. 2	0,15 - 5 Nm	-	◊
SOFT JOINT	DE-DLW4000	For hexagonal screws	4,0 - 12,0 Nm	-	◊
SPRINGS	DE-DLW4660	Spring for DLW4340, 4350, 4430		◊	•

• : Standard equipment ◊ : Optional Equipment - : Not available



DE-DLW4330

DE-DLW4340

DE-DLW4350

DE-DLW4360

DE-DLW4430

DE-DLW4530

DE-DLW4000

DE-DLW4040

DE-DLW4660



BALANCER



DE-TW1R

DE-RW-3

CAT. NO.	DE-TW1R	DE-RW-3
CAPACITY	0,5 - 1,5 kg	1,0 - 3,0 kg
STROKE	1,5 m	2 m
WEIGHT	0,3 kg	0,7 kg

TORQUE REACTION ARM



CAT. NO.	DESCRIPTION	APPLICABLE SCREWDRIVER
DE-DNTD06180	Torque Reaction Arm	DLV30, 45, 70

FLANGED COUPLING



CAT. NO.	FOR SERIES ELECTRIC SCREWDRIVERS
DE-DLW5600	Series 7500 and 8500
DE-DLW5700	Series 7400A

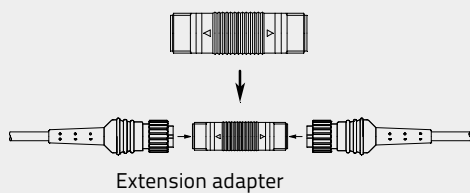
PISTOL GRIP



DE-DLW2300

Easy to attach grip suitable for horizontal operation.
For series: DLV7500, 8500, 30, 45 and 70.

CABLE ADAPTER (OPTIONAL)



SPECIFICATION

- DELVO 7500/8500 series cord connector

CAT. NO.	TYPE	COMPATIBILITY
DE-DLW9100	Cable adapter	DLV7500 DLV8500



VACUUM PUMP

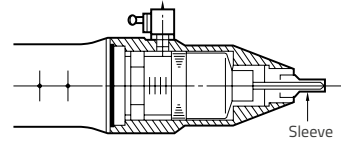
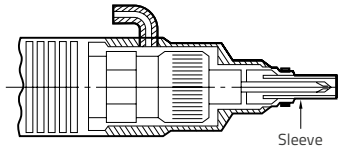


DE-DLP2570

CAT. NO.	DE-DLP2570
INPUT VOLTAGE	230 V AC, 50/60 Hz
POWER CONSUMPTION	30 W (50 Hz), 26 W (60 Hz)
UNDERPRESSURE	-21,3 kPa
TRANSFER (L/MIN)	24 (50 Hz), 26 (60 Hz)
SCREW SIZE	4 mm or less
WEIGHT	3,8 kg

VACUUM SYSTEM ADAPTER FOR DLV7400A/5700/5800/7300/7000/8000 SERIES SCREWDRIVERS

- DLP5300 (for series of DLV7400A/5700/5800 screwdrivers)
- DLP7100 (for series of DLV7313 screwdrivers)
- DLP7200 (for 4 mm bits with round hexagon shaft for DLV7323/7333 screwdriver series)
- DLP7300 (for 6.35 mm bits with hexagon shaft for DLV7323/7333 screwdriver series)



ADAPTER (CAT. NO.)	DE-DLP5300	DE-DLP7100	DE-DLP7200	DE-DLP7300
ACCESSORIES	DE-DLS2120 x 1 szt.	DE-DLS2122 x 1 szt.	DE-DLS2123 x 1 szt.	DE-DLS2135 x 1 szt.
	DE-DLS2124 x 1 szt.	DE-DLS2124 x 1 szt.	DE-DLS2124 x 1 szt.	-
	-	DE-DLS2127 x 1 szt.	DE-DLS2127 x 1 szt.	-

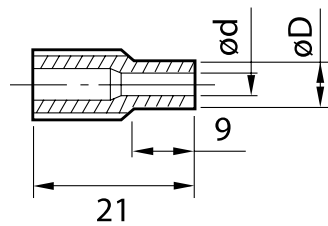
SLEEVE FOR DLS200 (PLASTIC)

For Vacuum system:

- DLP5300
- DLP6500
- DLP7100
- DLP7200
- DLP7300

For Screwdrivers:

- DLV7325
- DLV7335



SLEEVE			BIT	
CAT. NO.	ød	øD		
DE-DLS2127	3,7 mm	4,5 mm	No. 0 x 2,5 x 44 mm	Head Phillips (No. x d x L)
DE-DLS2128	4 mm	5,5 mm	No. 1 x 3 x 44 mm	
DE-DLS2129	4,2 mm		No. 2 x 4 x 44 mm	
DE-DLS2133	5,3 mm	6,5 mm		



PIERGIACOMI CUTTERS



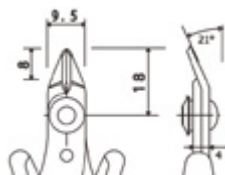
Cutters are mainly intended for use in the electronics industry.

They are used to cut off the leads of components located on long-range PCBs.

Tools have a different form of cutting and the possibility of simultaneous embarrasment of leads. Each of the offered cutters has information about the maximum thickness of the cut tool.

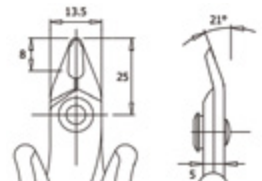
Failure to follow these guidelines may result in damage to the tool.

CUTTERS PG-TR20M



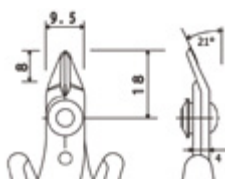
COPPER WIRE		MAX. PRESSURE	LENGTH
∅ (mm)	(AWG)	(kg)	(mm)
0,81	20	3	132

CUTTERS PG-TR25L



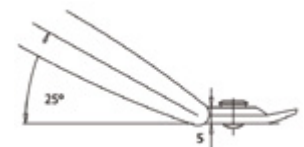
COPPER WIRE		MAX. PRESSURE	LENGTH
∅ (mm)	(AWG)	(kg)	(mm)
1,30	16	3	160

CUTTERS PG-TR20SM



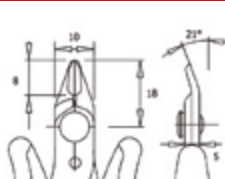
COPPER WIRE		MAX. PRESSURE	LENGTH
∅ (mm)	(AWG)	(kg)	(mm)
0,81	20	3	132

CUTTERS PG-TR25L25



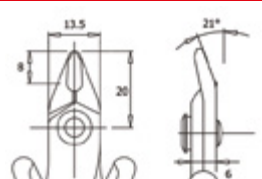
COPPER WIRE		MAX. PRESSURE	LENGTH
∅ (mm)	(AWG)	(kg)	(mm)
1,30	16	3	160

CUTTERS PG-TR25P



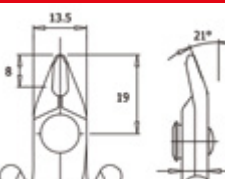
COPPER WIRE		MAX. PRESSURE	LENGTH
∅ (mm)	(AWG)	(kg)	(mm)
1,02	18	3,5	132

CUTTERS PG-TR30



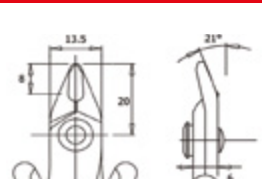
COPPER WIRE		MAX. PRESSURE	LENGTH
∅ (mm)	(AWG)	(kg)	(mm)
1,30	16	5,5	138

CUTTERS PG-TR58R



COPPER WIRE		MAX. PRESSURE	LENGTH
∅ (mm)	(AWG)	(kg)	(mm)
2,05	12	9	138

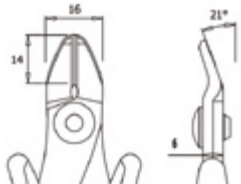
CUTTERS PG-TR3058R



COPPER WIRE		MAX. PRESSURE	LENGTH
∅ (mm)	(AWG)	(kg)	(mm)
1,63	14	6,5	138

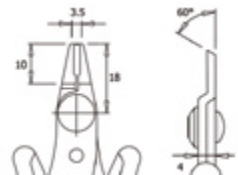


CUTTERS PG-TRR58G



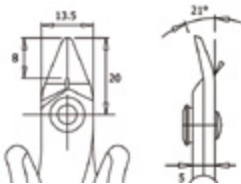
COPPER WIRE		MAX. PRESSURE	LENGTH
∅ (mm)	(AWG)	(kg)	(mm)
2,59	10	1,5	160

CUTTERS PG-TR20VM



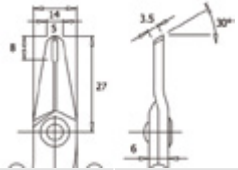
COPPER WIRE		MAX. PRESSURE	LENGTH
∅ (mm)	(AWG)	(kg)	(mm)
0,64	22	2	132

CUTTERS PG-TR2515



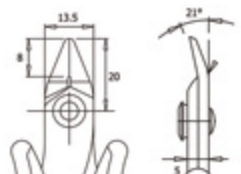
COPPER WIRE		MAX. PRESSURE	LENGTH
∅ (mm)	(AWG)	(kg)	(mm)
1,30	16	5	138

CUTTERS PG-TR30V



COPPER WIRE		MAX. PRESSURE	LENGTH
∅ (mm)	(AWG)	(kg)	(mm)
1,02	18	3	144

CUTTERS PG-TR2515L



COPPER WIRE		MAX. PRESSURE	LENGTH
∅ (mm)	(AWG)	(kg)	(mm)
1,30	16	3	160

CUTTERS PG-TR5000V



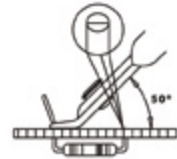
COPPER WIRE		MAX. PRESSURE	LENGTH
∅ (mm)	(AWG)	(kg)	(mm)
1,30	16	3,5	147

CUTTERS PG-TR2050M



COPPER WIRE		MAX. PRESSURE	LENGTH
∅ (mm)	(AWG)	(kg)	(mm)
0,64	22	2	131

CUTTERS PG-TR2550



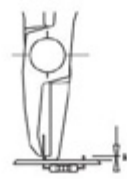
COPPER WIRE		MAX. PRESSURE	LENGTH
∅ (mm)	(AWG)	(kg)	(mm)
1,30	16	5	135

CUTTERS PG-TR5000W



COPPER WIRE		MAX. PRESSURE	LENGTH
∅ (mm)	(AWG)	(kg)	(mm)
1,30	16	3,5	147

CUTTERS TR 5000/10



COPPER WIRE		MAX. PRESSURE	LENGTH
∅ (mm)	(AWG)	(kg)	(mm)
1,3	16	5,5	147

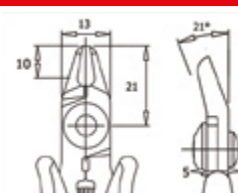


CUTTERS PG-TR5000/15



COPPER WIRE		MAX. PRESSURE	LENGTH
∅ (mm)	(AWG)	(kg)	(mm)
1,3	16	5,5	147

CUTTERS PG-TR5000R



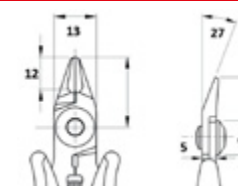
COPPER WIRE		MAX. PRESSURE	LENGTH
∅ (mm)	(AWG)	(kg)	(mm)
2,00	12	8	138

CUTTERS PG-TR3010



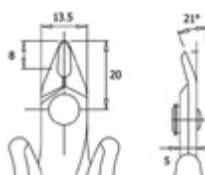
COPPER WIRE		MAX. PRESSURE	LENGTH
∅ (mm)	(AWG)	(kg)	(mm)
1,30	16	5,5	138

CUTTERS PG-TR5000PR



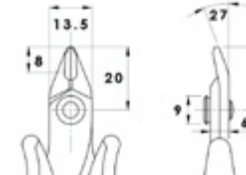
COPPER WIRE		MAX. PRESSURE	LENGTH
∅ (mm)	(AWG)	(kg)	(mm)
1,30	16	5	138

CUTTERS PG-TR25B



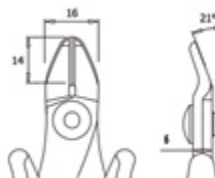
COPPER WIRE		MAX. PRESSURE	LENGTH
∅ (mm)	(AWG)	(kg)	(mm)
1,02	18	5	138

CUTTERS PG-TR3058



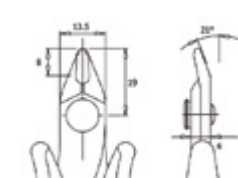
COPPER WIRE		MAX. PRESSURE	LENGTH
∅ (mm)	(AWG)	(kg)	(mm)
1,63	14	8,5	138

CUTTERS PG-TRR58



COPPER WIRE		MAX. PRESSURE	LENGTH
∅ (mm)	(AWG)	(kg)	(mm)
2,59	10	15	160

CUTTERS PG-TR58



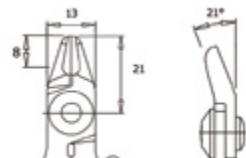
COPPER WIRE		MAX. PRESSURE	LENGTH
∅ (mm)	(AWG)	(kg)	(mm)
2,05	12	11	138

CUTTERS PG-TRR58B



COPPER WIRE		MAX. PRESSURE	LENGTH
∅ (mm)	(AWG)	(kg)	(mm)
2,05	12	3	160

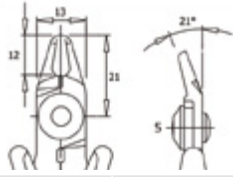
CUTTERS PG-TRR5000



COPPER WIRE		MAX. PRESSURE	LENGTH
∅ (mm)	(AWG)	(kg)	(mm)
2,59	10	14	138



CUTTERS PG-TR5000PG



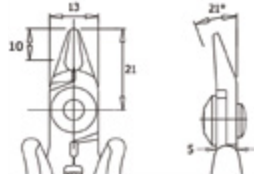
COPPER WIRE		MAX. PRESSURE	LENGTH
∅ (mm)	(AWG)	(kg)	(mm)
1,02	18	5	138

CUTTERS PG-TR3015V



COPPER WIRE		MAX. PRESSURE	LENGTH
∅ (mm)	(AWG)	(kg)	(mm)
1,02	18	3	144

CUTTERS PG-TR5000P



COPPER WIRE		MAX. PRESSURE	LENGTH
∅ (mm)	(AWG)	(kg)	(mm)
1,30	16	8	138

CUTTERS PG-TR20TM



COPPER WIRE		MAX. PRESSURE	LENGTH
∅ (mm)	(AWG)	(kg)	(mm)
0,64	22	2	129

CUTTERS PG-TR3015



COPPER WIRE		MAX. PRESSURE	LENGTH
∅ (mm)	(AWG)	(kg)	(mm)
1,30	16	5,5	138

CUTTERS PG-TR30T



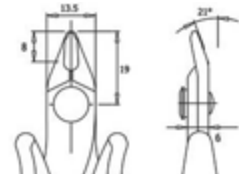
COPPER WIRE		MAX. PRESSURE	LENGTH
∅ (mm)	(AWG)	(kg)	(mm)
1,02	18	2,5	137

CUTTERS PG-TR30TD



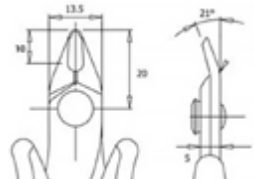
COPPER WIRE		MAX. PRESSURE	LENGTH
∅ (mm)	(AWG)	(kg)	(mm)
1,02	18	2,5	137

CUTTERS PG-ITR58AD



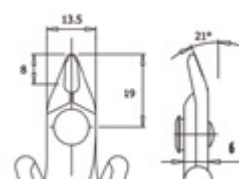
COPPER WIRE		FERROUS WIRE		STEEL WIRE	
∅ (mm)	(AWG)	∅ (mm)	(AWG)	∅ (mm)	(AWG)
1,30	16	1,02	18	-	-

CUTTERS PG-TRE-03-NB



COPPER WIRE		MAX. PRESSURE	LENGTH
∅ (mm)	(AWG)	(kg)	(mm)
1,30	16	3	140

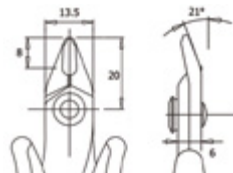
HEAVY DUTY CUTTER PG-ITR58R



COPPER WIRE		FERROUS WIRE		STEEL WIRE	
∅ (mm)	(AWG)	∅ (mm)	(AWG)	∅ (mm)	(AWG)
2,05	12	1,63	14	-	-

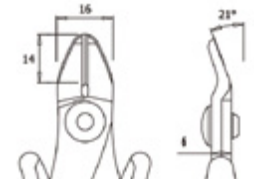


HEAVY DUTY CUTTER PG-ITR30



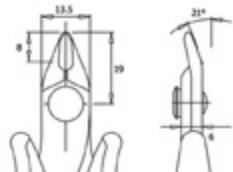
COPPER WIRE		FERROUS WIRE		STEEL WIRE	
Ø (mm)	(AWG)	Ø (mm)	(AWG)	Ø (mm)	(AWG)
1,30	16	1,02	18	-	-

HEAVY DUTY CUTTER PG-ITRR53G



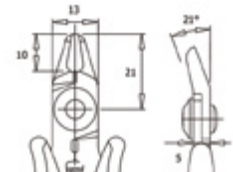
COPPER WIRE		FERROUS WIRE		STEEL WIRE	
Ø (mm)	(AWG)	Ø (mm)	(AWG)	Ø (mm)	(AWG)
2,59	10	1,63	14	-	-

HEAVY DUTY CUTTER PG-ITR58



COPPER WIRE		FERROUS WIRE		STEEL WIRE	
Ø (mm)	(AWG)	Ø (mm)	(AWG)	Ø (mm)	(AWG)
2,05	12	1,63	14	-	-

HEAVY DUTY CUTTER PG-ITR5000



COPPER WIRE		FERROUS WIRE		STEEL WIRE	
Ø (mm)	(AWG)	Ø (mm)	(AWG)	Ø (mm)	(AWG)
2,05	12	1,63	14	-	-

AVAILABLE VERSIONS

- With safety clip (code ITR 5000 A)
- With ESD-safe handles in grey/black (code ITR 5000 D & ITR 5000 A D)

PIERGIACOMI SPECIAL TOOLS

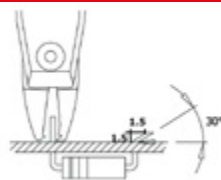


Cutting tools and pneumatic knives are used wherever there is a need to bend and cut large quantities of leads of components and serial PCB separation, leaving smooth edges of the board. Pneumatic power supply ensures excellent repeatability and eliminates operator fatigue. Set includes a cutter with head and blade.

The DPP pedal activation kit is available as an optional accessory compatible with all Piergiacomì pneumatic cutters and knives. It allows convenient hands-free operation of the tool, improving ergonomics and work efficiency. The kit can be ordered separately or as an addition to existing equipment.

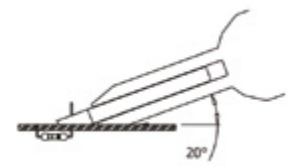
COMPRESSED AIR	6 - 7 bar
CONSUMPTION	3,5 Nm ³ /min

PG-TPP-TP-6000-15 PNEUMATIC CUTTER



CUTTING FORCE (KG)	COPPER WIRE Ø (MM)	COPPER WIRE (AWG)
70	1,02	18

PG-TPP-TR-6000 PNEUMATIC CUTTER

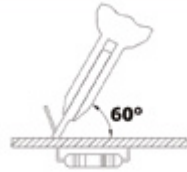


CUTTING FORCE (KG)	COPPER WIRE Ø (MM)	COPPER WIRE (AWG)
90	1,60	14



HAND TOOLS

PG-TPP-TR-6000-V PNEUMATIC CUTTER



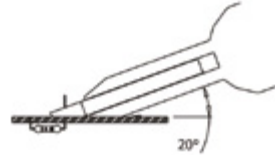
CUTTING FORCE (KG)	COPPER WIRE Ø (MM)	COPPER WIRE (AWG)
90	1,30	16

PG-DPP PNEUMATIC CUTTER



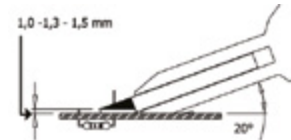
CAT. NO.	PG-DPP-20N	PG-DPP-23N	PG-DPP-24N	PG-DPP-25N
BLADE THICKNESS	2,0 mm	2,3 mm	2,4 mm	2,5 mm

PG-TPP-TR-6000-C/PR/R PNEUMATIC CUTTER



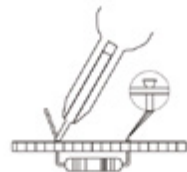
CUTTING FORCE (KG)	COPPER WIRE Ø (MM)	COPPER WIRE (AWG)	CAT. NO.
110	1,80	13	TPP-TR-6000-C
90	1,30	16	TPP-TR-6000-PR
90	1,60	14	TPP-TR-6000-R

PG-TPP-TR-6000-10/13/15 PNEUMATIC CUTTER



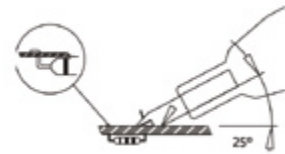
CUTTING FORCE (KG)	COPPER WIRE Ø (MM) / (AWG)	CAT. NO.	DISTANCE FROM THE SURFACE
90	1,60 / 14	TPP-TR-6000-10	1,0
		TPP-TR-6000-13	1,3
		TPP-TR-6000-15	1,5

PG-TPP-TS-6000 PNEUMATIC CUTTER



CUTTING FORCE (KG)	COPPER WIRE Ø (MM)	COPPER WIRE (AWG)
80	1,30	16

PG-TPP-TP-6000 PNEUMATIC CUTTER



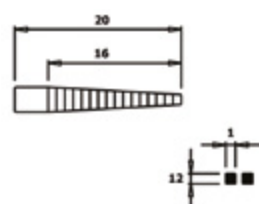
CUTTING FORCE (KG)	COPPER WIRE Ø (MM)	COPPER WIRE (AWG)
50	1,02	18

PIERGIACOMI PLIERS



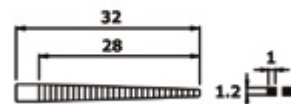
The precision pliers are suitable for all types of components. The ergonomic handle makes gripping easier and more comfortable. Models with bent ends allow gripping of workpieces on high-density plates and internally milled for a more secure gripping of the workpiece.

PG-PN2001 PLIERS



HRC	WEIGHT (G)	LENGTH (MM)
48 - 50	78	146

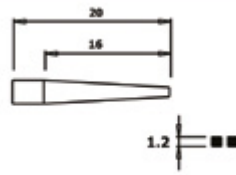
PG-PN2005 PLIERS



HRC	WEIGHT (G)	LENGTH (MM)
48 - 50	78	160

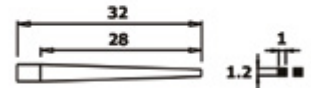


PG-PN2002 PLIERS



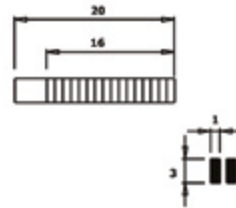
HRC	WEIGHT (G)	LENGTH (MM)
48 - 50	78	146

PG-PN2006 PLIERS



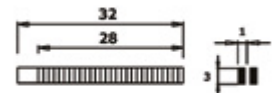
HRC	WEIGHT (G)	LENGTH (MM)
48 - 50	78	160

PG-PN2003 PLIERS



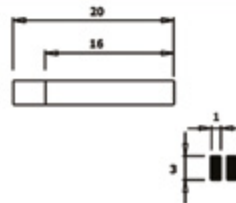
HRC	WEIGHT (G)	LENGTH (MM)
48 - 50	78	146

PG-PN2007 PLIERS



HRC	WEIGHT (G)	LENGTH (MM)
48 - 50	78	160

PG-PN2004 PLIERS



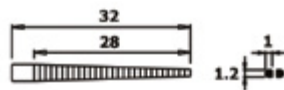
HRC	WEIGHT (G)	LENGTH (MM)
48 - 50	78	146

PG-PN2008 PLIERS



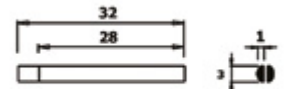
HRC	WEIGHT (G)	LENGTH (MM)
48 - 50	78	160

PG-PN2015 PLIERS



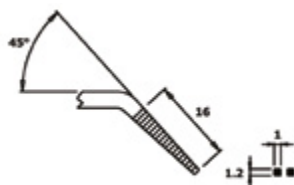
HRC	WEIGHT (G)	LENGTH (MM)
48 - 50	78	160

PG-PN2018 PLIERS



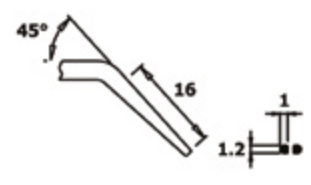
HRC	WEIGHT (G)	LENGTH (MM)
48 - 50	78	160

PG-PNB2005 PLIERS



HRC	WEIGHT (G)	LENGTH (MM)
48 - 50	78	152

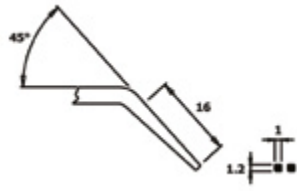
PG-PNB2016 PLIERS



HRC	WEIGHT (G)	LENGTH (MM)
48 - 50	78	152

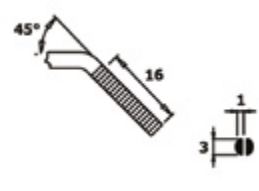


PG-PNB2006 PLIERS



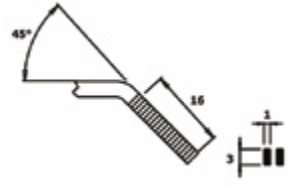
HRC	WEIGHT (G)	LENGTH (MM)
48 - 50	78	152

PG-PNB2017 PLIERS



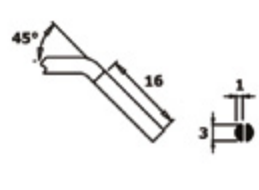
HRC	WEIGHT (G)	LENGTH (MM)
48 - 50	78	152

PG-PNB2007 PLIERS



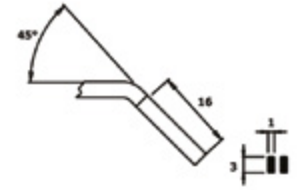
HRC	WEIGHT (G)	LENGTH (MM)
48 - 50	78	152

PG-PNB2018 PLIERS



HRC	WEIGHT (G)	LENGTH (MM)
48 - 50	78	152

PG-PNB2008 PLIERS



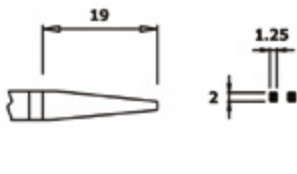
HRC	WEIGHT (G)	LENGTH (MM)
48 - 50	78	152

PG-PN20M PLIERS



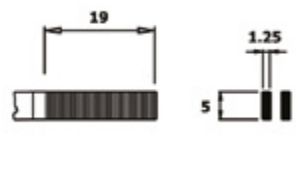
HRC	WEIGHT (G)	LENGTH (MM)
48 - 50	60	136

PG-PN5002 PLIERS



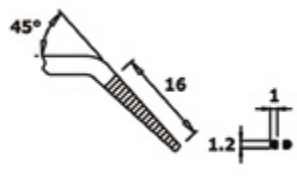
HRC	WEIGHT (G)	LENGTH (MM)
48 - 50	98	146

PG-PN5003 PLIERS



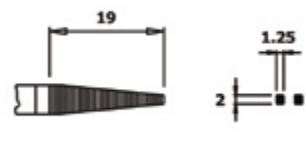
HRC	WEIGHT (G)	LENGTH (MM)
48 - 50	98	146

PG-PNB2015 PLIERS



HRC	WEIGHT (G)	LENGTH (MM)
48 - 50	78	152

PG-PN5001 PLIERS



HRC	WEIGHT (G)	LENGTH (MM)
48 - 50	98	146

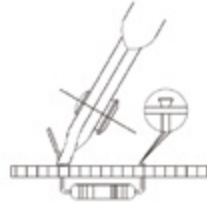


SPECIALISED PLIERS PIERGIACOMI



Special pliers are designed for shaping the leads of all types of through-hole components. Ergonomic handle for increased operator comfort and durable design for a very long life.

PG-TS30D SPECIALISED PLIERS



SHAPING FORCE		COPPER WIRE	
(kg)		∅ (mm)	(AWG)
9		1,02	18

PG-PNG5000D SPECIALISED PLIERS



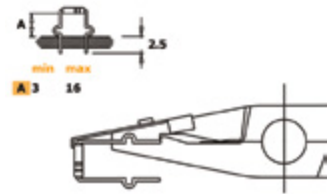
SHAPING FORCE		COPPER WIRE	
(kg)		∅ (mm)	(AWG)
3		1,02	18

PG-TP30D SPECIALISED PLIERS



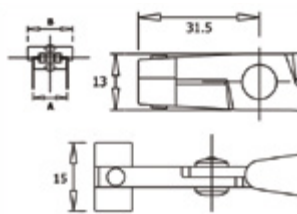
SHAPING FORCE		COPPER WIRE	
(kg)		∅ (mm)	(AWG)
3		1,02	18

PG-PNR5000D SPECIALISED PLIERS



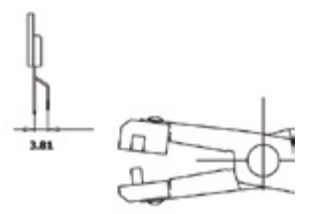
SHAPING FORCE		COPPER WIRE	
(kg)		∅ (mm)	(AWG)
3		1,02	18

PG-PPR5001D SPECIALISED PLIERS



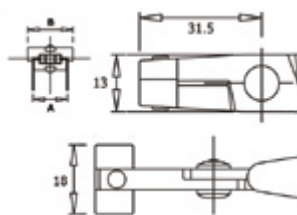
SHAPING FORCE		COPPER WIRE	
(kg)		∅ (mm)	(AWG)
3		0,6 - 0,8	22 - 20

PG-PN5050D SPECIALISED PLIERS



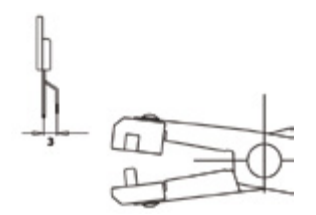
SHAPING FORCE		COPPER WIRE	
(kg)		∅ (mm)	(AWG)
3		1,30	16

PG-PPR5002D SPECIALISED PLIERS



SHAPING FORCE		COPPER WIRE	
(kg)		∅ (mm)	(AWG)
3		0,6 - 0,8	22 - 20

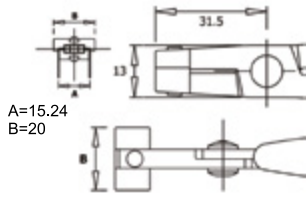
PG-PN5050/14D SPECIALISED PLIERS



SHAPING FORCE		COPPER WIRE	
(kg)		∅ (mm)	(AWG)
3		1,30	16

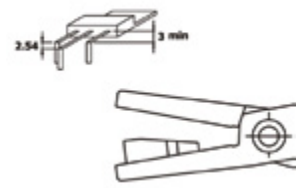


PG-PPR5003D SPECIALISED PLIERS



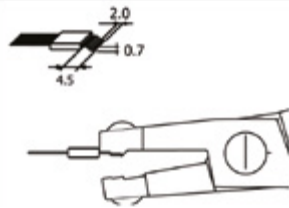
SHAPING FORCE		COPPER WIRE	
(kg)	∅ (mm)	(AWG)	
3	0,6 - 0,8	22 - 20	

PG-PN5050/6D SPECIALISED PLIERS



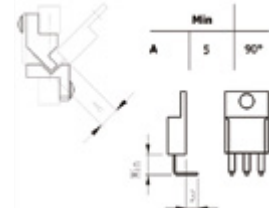
SHAPING FORCE		COPPER WIRE	
(kg)	∅ (mm)	(AWG)	
3	1,30	16	

PG-PNI5000D SPECIALISED PLIERS



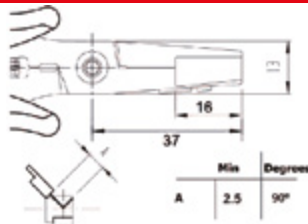
SHAPING FORCE		COPPER WIRE	
(kg)	∅ (mm)	(AWG)	
3	0,80	20	

PG-PN5040/90D SPECIALISED PLIERS



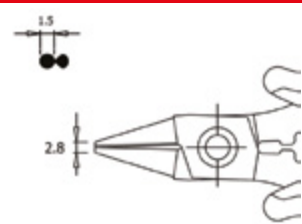
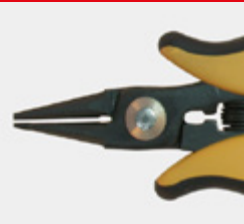
SHAPING FORCE		COPPER WIRE	
(kg)	∅ (mm)	(AWG)	
3	1,30	16	

PG-PN5040/7D SPECIALISED PLIERS



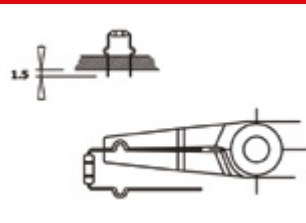
SHAPING FORCE		COPPER WIRE	
(kg)	∅ (mm)	(AWG)	
3	1,30	16	

PG-PN5025C SPECIALISED PLIERS



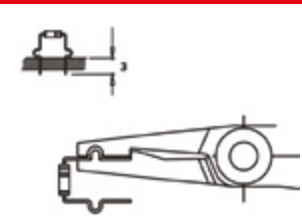
SHAPING FORCE		COPPER WIRE	
(kg)	∅ (mm)	(AWG)	
3	1,02	18	

PG-PNR30D SPECIALISED PLIERS



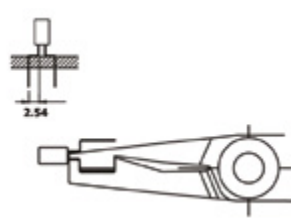
SHAPING FORCE		COPPER WIRE	
(kg)	∅ (mm)	(AWG)	
3	1,02	18	

PG-PTR30CD SPECIALISED PLIERS



SHAPING FORCE		COPPER WIRE	
(kg)	∅ (mm)	(AWG)	
3	1,02	18	

PG-PTR30LD SPECIALISED PLIERS



SHAPING FORCE		COPPER WIRE	
(kg)	∅ (mm)	(AWG)	
3	1,02	18	



PIERGIACOMI WIRE STRIPPERS AND CUTTERS

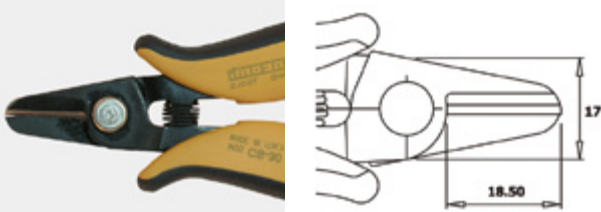


Cable shears and wire stripping tools for flat, round and coaxial cables are characterised by their robust construction, which ensures a very long service life.

Each tool has information about the maximum cable thickness.

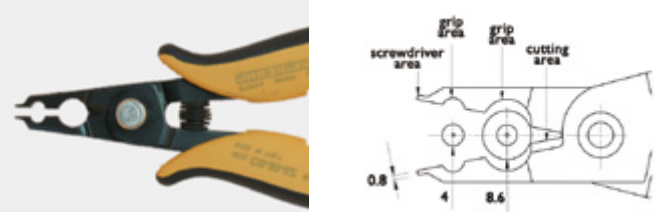
Failure to follow these guidelines may result in damage to the tool.

PG-CS30 CUTTING SHEARS



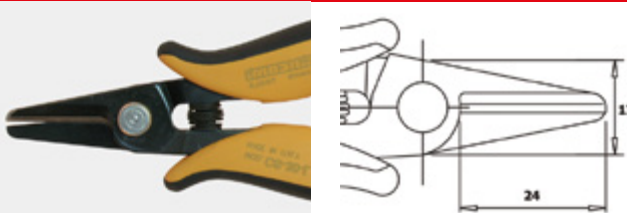
∅ (mm)	(AWG)	LENGTH (MM)
1,30	16	144

PG-CS30XZ CUTTING SHEARS



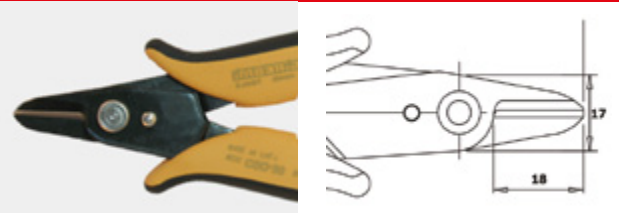
∅ (mm)	(AWG)	LENGTH (MM)
1,63	14	150

PG-CS30L CUTTING SHEARS



∅ (mm)	(AWG)	LENGTH (MM)
1,30	16	152

PG-CS030 CUTTING SHEARS



∅ (mm)	(AWG)	LENGTH (MM)
1,63	14	148

PG-CSF30 INSULATION STRIPPERS



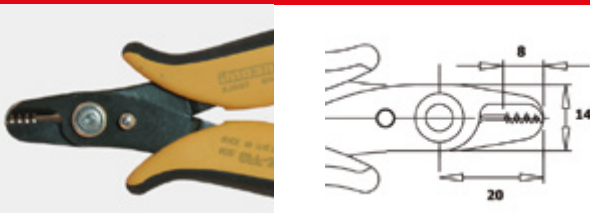
∅ (mm)	(AWG)	LENGTH (MM)
0,4 - 1,3	26 - 16	144

PG-SF30 INSULATION STRIPPERS



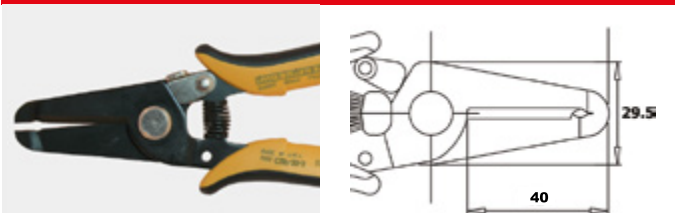
∅ (mm)	(AWG)	LENGTH (MM)
0,20 ÷ 0,64	32 - 22	141

PG-SFF30 INSULATION STRIPPERS



∅ (mm)	(AWG)	LENGTH (MM)
0,32 ÷ 0,51	28 - 24	141

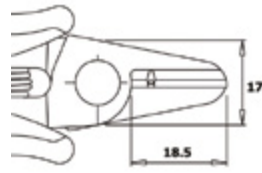
PG-CSP30.3 INSULATION STRIPPERS



∅ (mm)	(AWG)	LENGTH (MM)
MAKS. 10	000	165

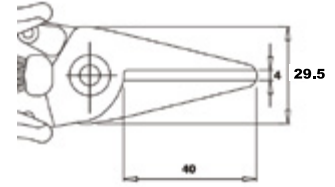


PG-CSF30 INSULATION STRIPPERS



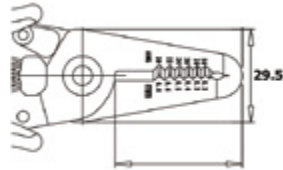
∅ (mm)	(AWG)	LENGTH (MM)
5,04 ÷ 1,8	26 - 16	144

PG-CSP305 INSULATION STRIPPERS



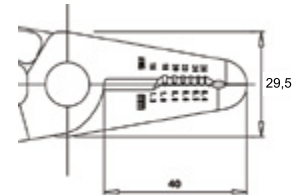
∅ (mm)	(AWG)	LENGTH (MM)
1,63	14	165

PG-CSP30.1 INSULATION STRIPPERS



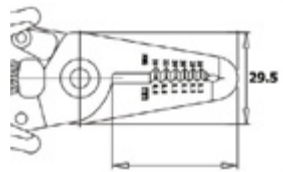
∅ (mm)	(AWG)	LENGTH (MM)
0,25 ÷ 0,81	30 - 20	165

PG-CSP307 INSULATION STRIPPERS



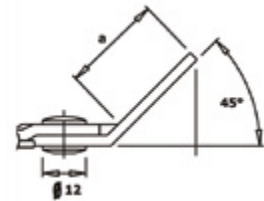
∅ (mm)	(AWG)	LENGTH (MM)
0,4 ÷ 1,3	26 - 16	165

ESD PG-CSP301D INSULATION STRIPPERS



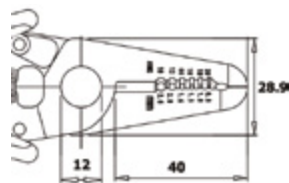
∅ (mm)	(AWG)	LENGTH (MM)
0,25 - 0,81	30 - 20	165

PG-CSP306 INSULATION STRIPPERS



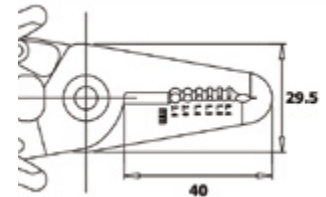
∅ (mm)	(AWG)	LENGTH (MM)
-	-	155

PG-CSP302 INSULATION STRIPPERS



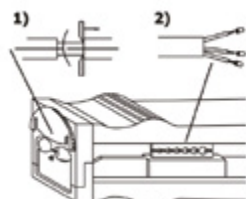
∅ (mm)	(AWG)	LENGTH (MM)
0,81 ÷ 2,59	20 - 10	165

PG-CCS10NB INSULATION STRIPPERS



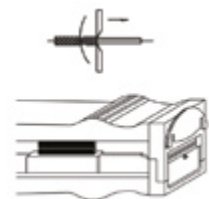
∅ (mm)	(AWG)	LENGTH (MM)
0,4 ÷ 2,6	26 - 10	165

PG-PS410 INSULATION STRIPPERS



∅ (mm)	(AWG)	LENGTH (MM)
4 ÷ 10 / 0,8 ÷ 2,6	6 ÷ 000 / 20 ÷ 10	115

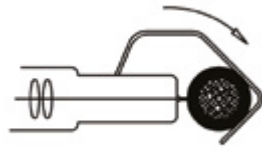
PG-PRFO INSULATION STRIPPERS



∅ (mm)	(AWG)	LENGTH (MM)
0,8 ÷ 2,6	20 ÷ 10	115



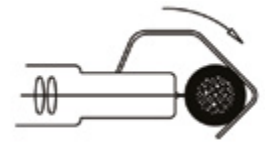
PG-SC1S INSULATION STRIPPERS



CABLE DIAMETER (MM)

4 - 16

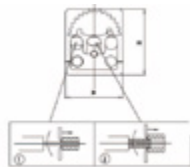
PG-SC2S INSULATION STRIPPERS



CABLE DIAMETER (MM)

8 - 28

PG-PCC1 INSULATION STRIPPERS



∅ (mm)

(AWG)

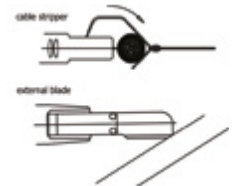
LENGTH (MM)

-

-

115

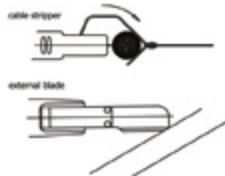
PG-SC31C INSULATION STRIPPERS



CABLE DIAMETER (MM)

8 - 28

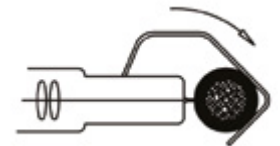
PG-SC42C INSULATION STRIPPERS



CABLE DIAMETER (MM)

8 - 28

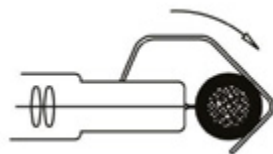
PG-SC5ST INSULATION STRIPPERS



CABLE DIAMETER (MM)

28 - 35

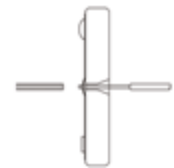
PG-SC-6ST INSULATION STRIPPERS



CABLE DIAMETER (MM)

35 - 50

PG-SF402 INSULATION STRIPPERS



∅ (mm)

(AWG)

LENGTH (MM)

1,3 ÷ 1,8

16 - 13

50 x 55



PG-SF401 INSULATION STRIPPERS



∅ (mm)	(AWG)	LENGTH (MM)
0,25 ÷ 1,0	30 - 18	50 x 55

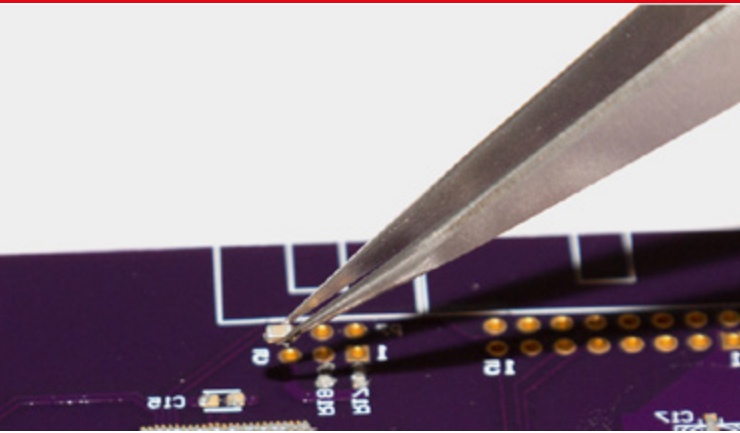
PG-PST-(0,5-0,6-0,8-1,0) INSULATION STRIPPERS



order code	mm	awg
PST 0.5	0.5	24
PST 0.6	0.6	22
PST 0.8	0.8	20
PST 1.0	1.0	18

CAT. NO.	∅ (mm)	(AWG)	LENGTH (MM)
PG-PST05	0,5	24	125
PG-PST06	0,6	22	125
PG-PST08	0,8	20	125
PG-PST10	1,0	18	125

PIERGIACOMI TWEEZERS



PIERGIACOMI tweezers are widely used in many branches of industry – wherever precision is required, e.g. electronics, precision mechanics.

The tweezers differ from each other::

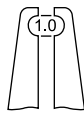
- the shape of the tip
- type of cutter: internal or external

The tweezers marked with the R symbol have a self-locking mechanism. Most of the tweezers are made of antimagnetic materials, and acid resistant, there are also nickel and nylon tweezers, and Teflon coated.

PN-38-SA SMD TWEEZERS



Tweezer with round hole 1 mm for small components.

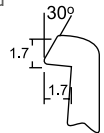


LENGTH (MM)
120

PN-103-SA SMD TWEEZERS

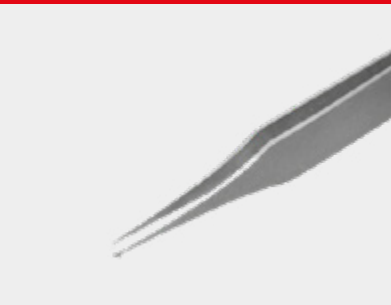


Tweezers with bent tips for handling of chips and SMD components; angled tips for fatigue reduction.

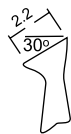


LENGTH (MM)
120

PN-102-SA SMD TWEEZERS



Tweezers for handling of chips and SMD components; angled tips for fatigue reduction.

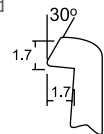


LENGTH (MM)
120

PN-103R-SA SMD TWEEZERS



Tweezers with bent tips for handling of chips and SMD components; angled tips for fatigue reduction; with reverse action.



LENGTH (MM)
120



PN-102R-SA SMD TWEEZERS



Tweezers for handling of chips and SMD components; angled tips for fatigue reduction; with reverse action.



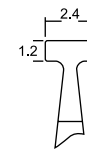
LENGTH (MM)

120

PN-104-SA SMD TWEEZERS



Tweezers for handling of SMD components.



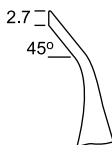
LENGTH (MM)

120

PN-106-SA SMD TWEEZERS



Tweezers for handling of SMD components with 45o curved tip.



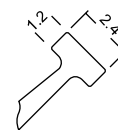
LENGTH (MM)

120

PN-105-SA SMD TWEEZERS



Tweezers for handling of SMD components; bent tips.



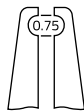
LENGTH (MM)

120

PN-107-SA SMD TWEEZERS



Tweezers for handling of SMD components; hole in the tips \varnothing 0.75 mm.



LENGTH (MM)

120

PN-111-SA SMD TWEEZERS



Tweezer for SMD components.



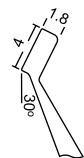
LENGTH (MM)

120

PN-108-SA SMD TWEEZERS



Tweezers for handling SMD components.



LENGTH (MM)

120

PN-0-SA SHARP TWEEZERS



Very sharp and flat tweezer. ESD version available.

LENGTH (MM)

120

PN-109-SA SMD TWEEZERS



Tweezers for handling of SMD components.



LENGTH (MM)

120

PN-0C11-SA SHARP TWEEZERS



Flat tweezers with very fine tips and thin blades.

LENGTH (MM)

110



PN-110-SA SMD TWEEZERS

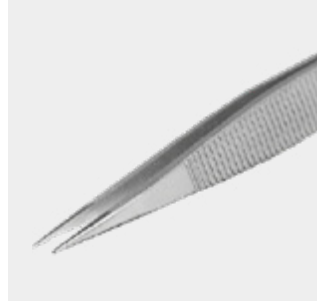


Tweezers for handling of SMD components.



LENGTH (MM)
120

PN-00B-SA SHARP TWEEZERS



Tweezers with flat and thick tips, externally serrated for general purpose.

LENGTH (MM)
120

PN-00C-SA SHARP TWEEZERS



Tweezers with flat and thick tips for general purpose.

LENGTH (MM)
105

PN-00-SA SHARP TWEEZERS



Tweezers with flat and thick tips for general purpose. ESD version available.

LENGTH (MM)
120

PN-00D-SA SHARP TWEEZERS



Tweezers with flat and thick tips, internally serrated (on the tips) and externally serrated (on the handles). ESD version available.

LENGTH (MM)
120

PN-0R-SA SHARP TWEEZERS



Tweezer with very sharp and flat tips, self-locking.

LENGTH (MM)
115

PN-0A-SA SHARP TWEEZERS



Tweezers with very fine tips.

LENGTH (MM)
120

PN-1-SA SHARP TWEEZERS



Tweezers with strong tips and thin blades for generic purpose. ESD version available. Also available in an antistatic version (PN-1-SA-ESD).

LENGTH (MM)
120

PN-3-SA SHARP TWEEZERS



Tweezers with strong tips and thin blades, ideal for microelectronic applications. ESD version available.

LENGTH (MM)
120

PN-4A-SA SHARP TWEEZERS



Tweezers with sharp and strong tips.

LENGTH (MM)
110

**PN-4R-SA SHARP TWEEZERS**

Tweezers with very fine and sharp tips with reverse action.

LENGTH (MM)

110

PN-7A-SA SHARP TWEEZERS

Tweezers with very fine and bent tips for easier grip in high density areas (same as 7 but with blades internally serrated).

LENGTH (MM)

120

PN-5-SA SHARP TWEEZERS

Tweezers with very fine and sharp tips, ideal for SMD applications. ESD version available.

LENGTH (MM)

110

PN-7B-SA SHARP TWEEZERS

Tweezers with very fine and bent tips for an easier grip in high density areas; similar to 7 but with stringer tips. ESD version available.

LENGTH (MM)

120

PN-5A-SA SHARP TWEEZERS

Tweezers with very fine, sharp and oblique tips.

LENGTH (MM)

115

PN-7A-SA SHARP TWEEZERS

Tweezers with very fine and bent tips for easier grip in high density areas (same as 7 but with blades internally serrated). Also available in an antistatic version (**PN-7A-SA-ESD**).

LENGTH (MM)

120

PN-5B-SA SHARP TWEEZERS

Tweezers with very fine and sharp tips, ideal for SMD applications; tips bent at 40° for a better visual of the work area.

LENGTH (MM)

110

PN-7E-SA SHARP TWEEZERS

Tweezers with very fine and bent tips for easier grip in high density areas.

LENGTH (MM)

120

PN-65A-SA SHARP TWEEZERS

Tweezers with long, thin handles and very fine tips bent at 40°. Suitable for the gripping of generic micro chips and micro components.

LENGTH (MM)

135

PN-51S-SA SHARP TWEEZERS

Tweezers with very fine tips bent at 40° for handling of micro components.

LENGTH (MM)

120



PN-A-SA SHARP TWEEZERS



Tweezers with strong and precise tips for bending wires and components.

LENGTH (MM)

115

PN-SS-SA SHARP TWEEZERS



Tweezers with very fine tips, long and thin handles, ideal for operating close to heat sources.

LENGTH (MM)

140

PN-AA-SA SHARP TWEEZERS



Tweezers with strong gripping action. ESD version available.

LENGTH (MM)

130

PN-SA-SA SHARP TWEEZERS



Tweezers with very strong tips for general purpose.

LENGTH (MM)

120

PN-AAR-SA SHARP TWEEZERS



Sharp and strong tweezers, self-locking.

LENGTH (MM)

125

PN-4DW-SA PCB TWEEZERS



Tweezers with flat lower tip for wafer handling (available in different sizes).

LENGTH (MM)

125

PN-4D-SA PCB TWEEZERS



Special tweezers for components (available in various sizes).

LENGTH (MM)

125

PN-5D-SA PCB TWEEZERS



Tweezers with five teeth with flat lower tip for wafer handling.

LENGTH (MM)

125

PN-85C-SA PCB TWEEZERS



Special tweezers for SMD with serrated handle.

LENGTH (MM)

120

PN-19-SA TRADITIONAL TWEEZERS



Tweezers for assembly, serrated internally and externally on the handles.

LENGTH (MM)

160


PN-29D16-SA / PN-29D22-SA / PN-29D28-SA PCB TWEEZERS


Self-locking extractor for components.

Handle width: 16,22 and 28 mm

LENGTH (MM)

152

PN-26-SA TRADITIONAL TWEEZERS


Tweezers with very strong and flat tips.

LENGTH (MM)

135

PN-30D16-SA / PN-30D22-SA / PN-30D28-SA PCB TWEEZERS


Tweezers with curved tips for removing dips, self-locking.

Handle width: 16, 22 i 28 mm

LENGTH (MM)

152

PN-33A-SA TRADITIONAL TWEEZERS

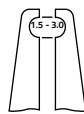

Tweezers with bent tips, with reverse action, ideal to be used during soldering operations.

LENGTH (MM)

150

PN-150/1,5-SA | PN-150/3-SA TRADITIONAL TWEEZERS


Tweezers for insertion and extraction of micro components.
Tips diameter:
1,5-3 mm



LENGTH (MM)

120

PN-2-SA TRADITIONAL TWEEZERS


Tweezers with flat tips for handling of very small parts.

LENGTH (MM)

120

PN-231-SA TRADITIONAL TWEEZERS


Tweezers with internally serrated tips for general purpose.

LENGTH (MM)

120

PN-35A-SA TRADITIONAL TWEEZERS


Flat tweezers with expanding tip, serrated handle.

LENGTH (MM)

120

PN-232-SA TRADITIONAL TWEEZERS


Tweezers with smooth tips and strong gripping action.

LENGTH (MM)

150

PN-578-SA TRADITIONAL TWEEZERS


Tweezers for handling and assembly of cylindrical components \varnothing 2 mm.

LENGTH (MM)

120



PN-233-SA TRADITIONAL TWEEZERS



Tweezers internally serrated and with a strong gripping action. An antistatic version is also available (PN-233-SA-ESD).

LENGTH (MM)
160

PN-2AT CLASSIC TWEEZERS



Flat tweezers, with rounded wide tip covered with Teflon

LENGTH (MM)
120

PN-321-SA TRADITIONAL TWEEZERS



Tweezers with flat, rounded tip.

LENGTH (MM)
120

PN-H-SA TRADITIONAL TWEEZERS



Tweezers with swallow-shaped head and fine tips.

LENGTH (MM)
90

PN-2AB-SA TRADITIONAL TWEEZERS



Tweezers with rounded and flat tips for general purpose.

LENGTH (MM)
120

PN-6-SA TRADITIONAL TWEEZERS



Tweezers with fine hook-shaped tips.

LENGTH (MM)
115

PN-85A-SA PCB TWEEZERS



Tweezers for wafer handling.

LENGTH (MM)
120

PN-2A-SA TRADITIONAL TWEEZERS



Tweezers with rounded and flat tips for general purpose. ESD version available.

LENGTH (MM)
120

PN-19P-SA TRADITIONAL TWEEZERS



Tweezers for assembly with bent tips, serrated internally and externally on the handles.

LENGTH (MM)
160

PN-4-SA PCB TWEEZERS



Tweezers with very fine and sharp tips.

LENGTH (MM)
110


ANTIMAGNETIC, ESD TWEezer RE-BSJ-11


- Length: 140mm
- Tip: straight, sharp, hardness HRC40
- Reinforced gripping part
- Acid resistant
- Properties: antistatic and antimagnetic

LENGTH (mm)
140

ANTIMAGNETIC, ESD TWEezer ESD RE-BSJ-15


- Length: 115 mm
- Tip: straight, sharp, hardness HRC40
- Reinforced gripping part
- Acid resistant
- Properties: antistatic and antimagnetic

LENGTH (mm)
115

SET OF FOUR PIERGIACOMI PROFESSIONAL TWEEZERS PN-KIT4-1T


PN-KIT4-1T

DESCRIPTION

- Set of 4 professional tweezers in a plastic wallet
- The kit includes:
 - PN-2A-SA tweezer
 - PN-00D-SA tweezer
 - PN-5-SA tweezer
 - PN-7-SA tweezer

- FREE Piergiacomì clipper TRE - 03NB

LENGTH (mm)	WEIGHT (kg)
120	0,075

SET OF FOUR PIERGIACOMI PROFESSIONAL TWEEZERS


PN-KIT4-2T

DESCRIPTION

- Set of 4 professional tweezers in a plastic wallet
- The kit includes:
 - PN-2A-SA tweezer
 - PN-2AB-SA tweezer
 - PN-00D-SA tweezer
 - PN-AA-SA tweezer

- FREE Piergiacomì clipper TRE - 03NB

LENGTH (mm)	WEIGHT (kg)
130	0,075

SET OF SEVEN PIERGIACOMI PROFESSIONAL TWEEZERS


PN-KIT7T

DESCRIPTION

- Set of 4 professional tweezers in a plastic wallet
- The kit includes:
 - PN-2A-SA tweezer
 - PN-2AB-SA tweezer
 - PN-7-SA tweezer
 - PN-5-SA tweezer
 - PN-00-SA tweezer
 - PN-00D-SA tweezer
 - PN-AA-SA tweezer

- FREE Piergiacomì clipper TRE - 03NB

LENGTH (mm)	WEIGHT (kg)
130	0,12



SU 8 PIERGIACOMI ESD TOOL STAND



PG-SU-8

DESCRIPTION

- This tool stand has been designed for an efficient and tidy management of the post
- SU - 8 can hold pliers, tweezers, screwdrivers and other tools
- The stand is made of 1.5 mm thick steel and coated with ESD - safe powder. Perfectly stable thanks to its special shape, the stand can hold tools of different lengths thanks to its sloped profile
- The SU - 8 stand has a small compartment for small objects such as screws. The stand can be placed on a table or fixed to the wall
- SUPPLIED EMPTY, or, on request, with tools

COLOR	WEIGHT (kg)
Black	0,114

TPP SET WITH CASE



PG-TPP-SET

DESCRIPTION

- Case with pneumatic cutting tool included
- Activated by lever
- It contains:
 - TPP-TR-6000
 - TP-6000 cutting head (cut & bend): cutting force 50 kg, copper wire Ø 1.02 mm (18 awg)
 - CL-6000-R spare blades (flush cut): cutting force 90 kg, copper wire Ø 1.60 mm (14 awg)
 - Hex key (2mm)

CASE DIMENSIONS	WEIGHT (g)
260 x 320 x 80 mm	730

SET OF ESD HAND ACCESSORIES FOR PCB REPAIR



RE-HM-619150

DESCRIPTION

- The kit includes three tools, each 153 mm in length, made from materials with a surface resistance ranging from 10^3 to $10^9 \Omega$.
- The tools feature an ergonomic design, lightweight construction (just 0.04 kg), and a sleek black finish that enhances visibility and organization at the workstation.
- Antistatic materials that protect delicate components from ESD damage,
- Ergonomic shapes that facilitate work in hard-to-reach areas,
- Versatility – ideal for both professional repair shops and home workshops,
- Modern black finish that gives the tools a clean and professional appearance.

ESD SPATULA



RE-HM-65845

DESCRIPTION

- Measuring 45 mm in width and 290 mm in length is a specialized tool designed for use in environments sensitive to electrostatic discharge.
- Safe for integrated circuits and other sensitive components,
- Comfortable handle design for improved ergonomics,
- Temperature resistance from -30°C to $+80^\circ\text{C}$ for versatile usage,
- Ultra-lightweight at only 0.02 kg, ideal for daily operations and mobility,
- Durable materials and a neutral black color that blends seamlessly into any ESD-safe workstation.
- Made from high-quality materials with a surface resistance ranging from 10^6 to 10^9 ohms



ANTISTATIC CLOTHING

255

SHORT SLEEVE T-SHIRT	256
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WOMEN'S SHORT SLEEVE T-SHIRT



CE-TSHIR.050.D

DESCRIPTION

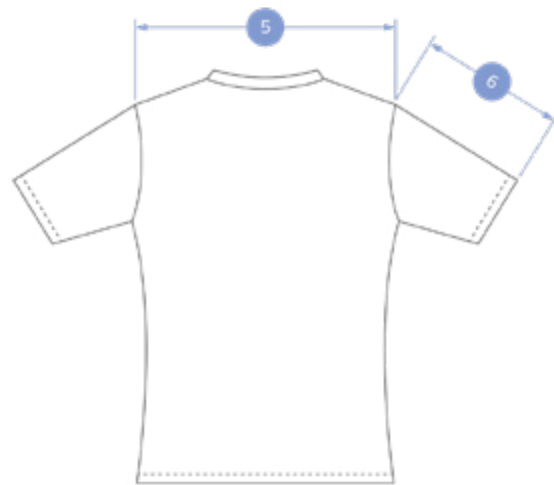
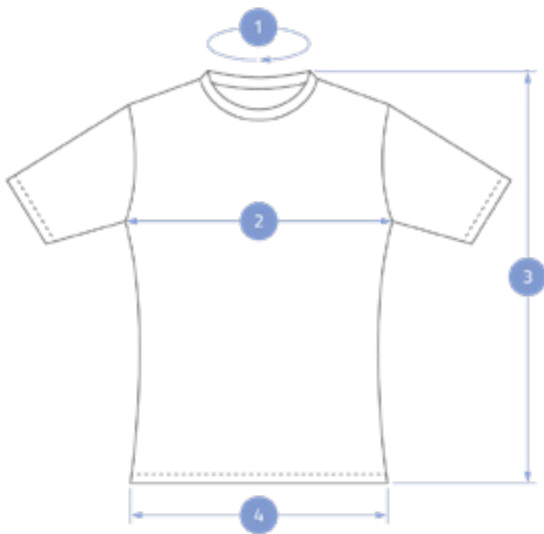
- Fabric: Knit fabric 050
- Cut: Female
- Sizes: 2XS – 2XL
- ESD sign: Side tag

OPTIONS

- Custom size: Bespoke
- Custom colour: Bespoke
- Customer's logo: Embroidery

STANDARD COLORS | KNIT FABRIC 050

Navy Blue	Black	White	Blue	Neon yellow	Orange	Red	Light grey	Dark grey
25	27	28	30	55	38	39	73	40



	2XS	XS	S	M	L	XL	2XL
BODY							
1	36	37	37	39	39	41	41
2	45	47	49	51	54	57	60
3	69	70	71	72	73	74	74
4	49	51	53	55	58	61	64
5	34	35	36	37	38	40	40
SLEEVES							
6	20	21	21	22	23	23	23



MEN'S SHORT SLEEVE T-SHIRT



CE-TSHIRT.050

DESCRIPTION

- Fabric: Knit fabric 050
- Cut: Male
- Sizes: 2XS – 2XL
- ESD sign: Side tag

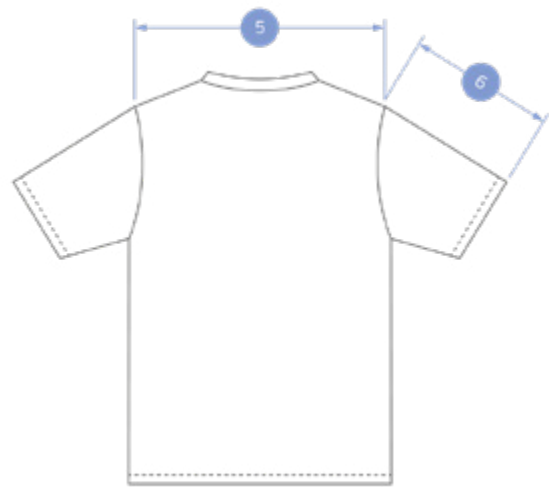
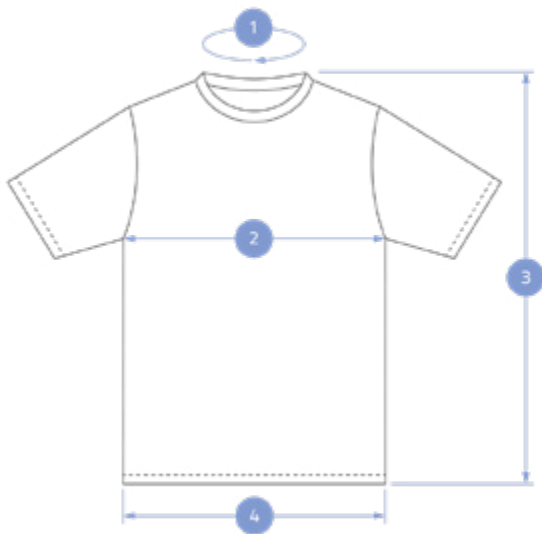
OPTIONS

- Custom size: Bespoke
- Custom colour: Bespoke
- Customer's logo: Embroidery

STANDARD COLORS | KNIT FABRIC 050



Navy Blue	Black	White	Blue	Neon yellow	Orange	Red	Light grey	Dark grey
25	27	28	30	55	38	39	73	40



	2XS	XS	S	M	L	XL	2XL
BODY							
1	40	41	41	43	45	48	49
2	46	49	52	55	58	61	64
3	66	67	68	68	70	70	72
4	46	49	52	55	58	61	64
5	47	48	49	50	51	52	53
SLEEVES							
6	22	22	22	23	23	24	25



WOMEN'S LONG SLEEVE T-SHIRT



CE-TSHIR.050.D.LS

DESCRIPTION

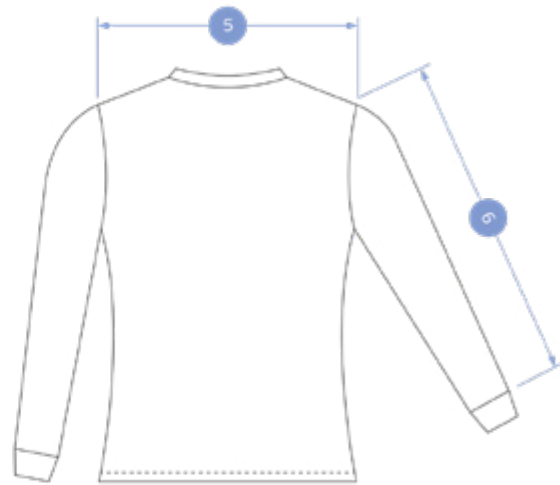
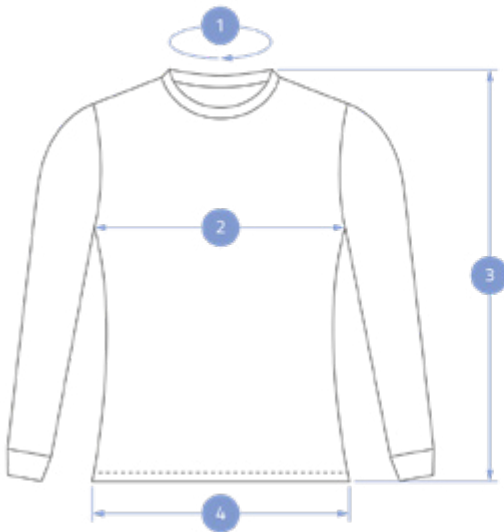
- Fabric: Knit fabric 050
- Cut: Female
- Sizes: 2XS – 2XL
- Sleeves: Rib cuff
- ESD sign: Side tag

OPTIONS

- Custom size: Bespoke
- Custom colour: Bespoke
- Customer's logo: Embroidery

STANDARD COLORS | KNIT FABRIC 050

Navy Blue	Black	White	Blue	Neon yellow	Orange	Red	Light grey	Dark grey
25	27	28	30	55	38	39	73	40



	2XS	XS	S	M	L	XL	2XL
BODY							
1	36	37	37	39	39	41	41
2	45	47	49	51	54	57	60
3	69	70	71	72	73	74	74
4	49	51	53	55	58	61	64
5	34	35	36	37	38	40	40
SLEEVES							
6	59	60	61	62	63	64	65



MEN'S LONG SLEEVE T-SHIRT



CE-TSHIR.050-LS

DESCRIPTION

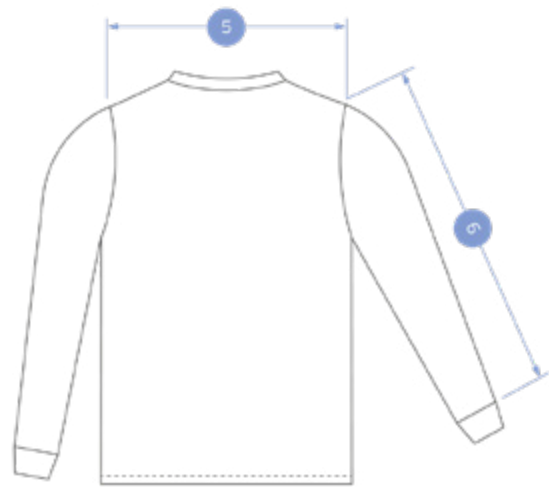
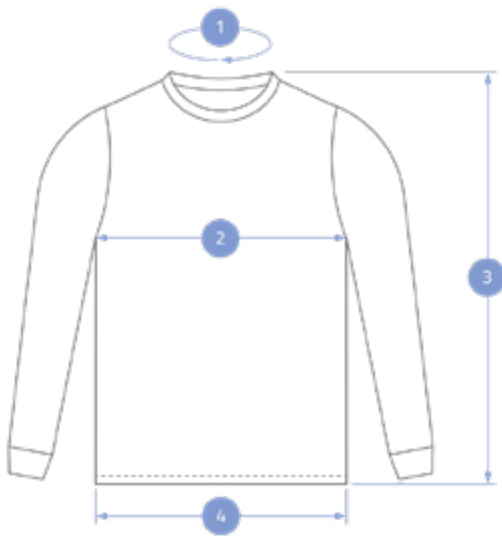
- Fabric: Knit fabric 050
- Cut: Male
- Sizes: 2XS – 2XL
- Sleeves: Rib cuff
- ESD sign: Side tag

OPTIONS

- Custom size: Bespoke
- Custom colour: Bespoke
- Customer's logo: Embroidery

STANDARD COLORS | KNIT FABRIC 050

Navy Blue	Black	White	Blue	Neon yellow	Orange	Red	Light grey	Dark grey
25	27	28	30	55	38	39	73	40



	2XS	XS	S	M	L	XL	2XL
BODY							
1	40	41	41	43	45	48	49
2	46	49	52	55	58	61	64
3	66	67	68	68	70	70	72
4	46	49	52	55	58	61	64
5	47	48	49	50	51	52	53
SLEEVES							
6	66	66	68	68	70	70	74



WOMEN'S SHORT SLEEVE POLO SHIRT



CE-POLO.050.D

DESCRIPTION

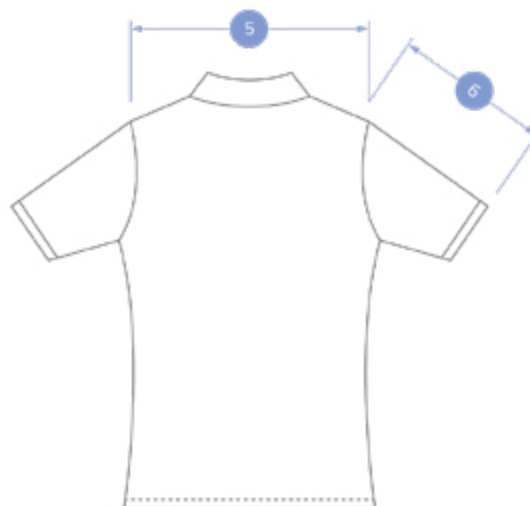
- Fabric: Knit fabric 050
- Cut: Female
- Sizes: 2XS – 2XL
- Fastener: Three buttons
- Pocket: One on the left breast
- ESD sign: On the pocket

OPTIONS

- Custom size: Bespoke
- Custom colour: Bespoke
- Customer's logo: Embroidery

STANDARD COLORS | KNIT FABRIC 050

Navy Blue	Black	White	Blue	Neon yellow	Orange	Red	Light grey	Dark grey
25	27	28	30	55	38	39	73	40



	2XS	XS	S	M	L	XL	2XL
BODY							
1	38	38	38	40	40	42	42
2	45	47	49	51	54	57	60
3	69	70	71	72	73	74	74
4	49	51	53	55	58	61	64
5	34	35	36	37	38	40	40
SLEEVES							
6	22	23	23	24	24	25	25



MEN'S SHORT SLEEVE POLO SHIRT



CE-POLO.050

DESCRIPTION

- Fabric: Knit fabric 050
- Cut: Male
- Sizes: 2XS – 2XL
- Fastener: Three buttons
- Pocket: One on the left breast
- ESD sign: On the pocket

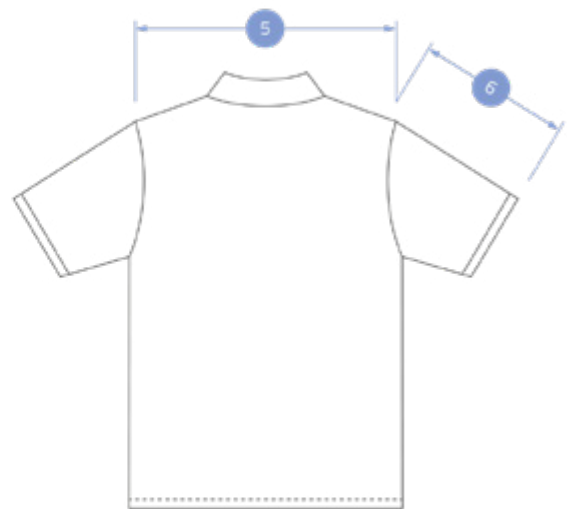
OPTIONS

- Custom size: Bespoke
- Custom colour: Bespoke
- Customer's logo: Embroidery

STANDARD COLORS | KNIT FABRIC 050



Navy Blue	Black	White	Blue	Neon yellow	Orange	Red	Light Grey	Dark grey
25	27	28	30	55	38	39	73	40



	2XS	XS	S	M	L	XL	2XL
BODY							
1	38	38	38	40	40	42	42
2	47	50	54	58	62	66	70
3	68	68	70	71	73	74	74
4	47	50	54	58	62	66	70
5	45	46	48	50	52	54	55
SLEEVES							
6	24	24	24	26	26	27	27



WOMEN'S LONG SLEEVE POLO SHIRT



CE-POLO.050.D.LS

DESCRIPTION

- Fabric: Knit fabric 050
- Cut: Female
- Sizes: 2XS – 2XL
- Fastener: Three buttons
- Pocket: One on the left breast
- Sleeves: Rib cuff
- ESD sign: On the pocket

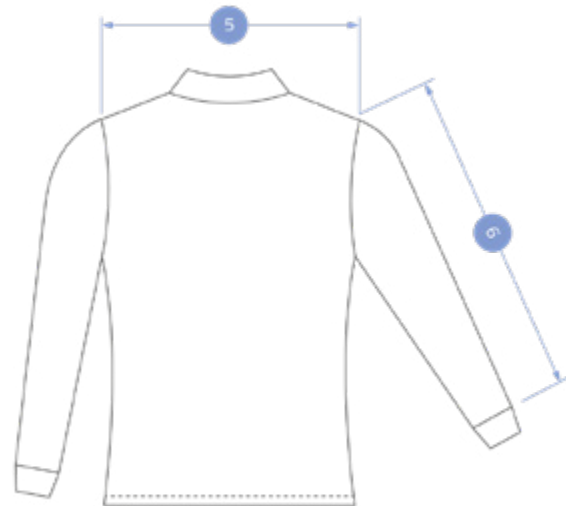
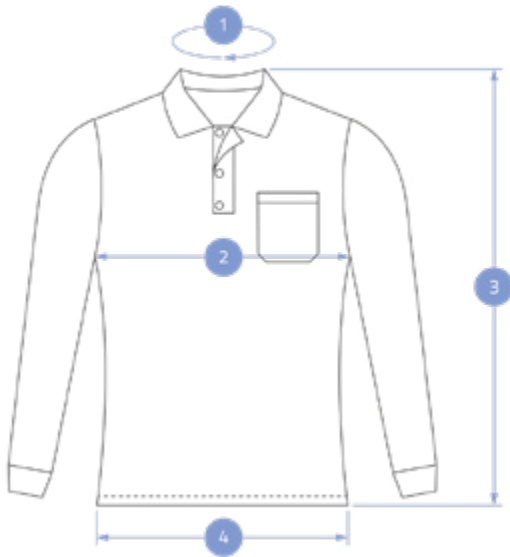
OPTIONS

- Custom size: Bespoke
- Custom colour: Bespoke
- Customer's logo: Embroidery

STANDARD COLORS | KNIT FABRIC 050



	Navy Blue	Black	White	Blue	Neon yellow	Orange	Red	Light grey	Dark grey
	25	27	28	30	55	38	39	73	40



	2XS	XS	S	M	L	XL	2XL
BODY							
1	38	38	38	40	40	42	42
2	45	47	49	51	54	57	60
3	69	70	71	72	73	74	74
4	49	51	53	55	58	61	64
5	34	35	36	37	38	40	40
SLEEVES							
6	59	60	61	62	63	64	65



MEN'S LONG SLEEVE POLO SHIRT



CE-POLO.050-LS

DESCRIPTION

- Fabric: Knit fabric 050
- Cut: Male
- Sizes: 2XS – 2XL
- Fastener: Three buttons
- Pocket: One on the left breast
- Sleeves: Rib cuff
- ESD sign: On the pocket

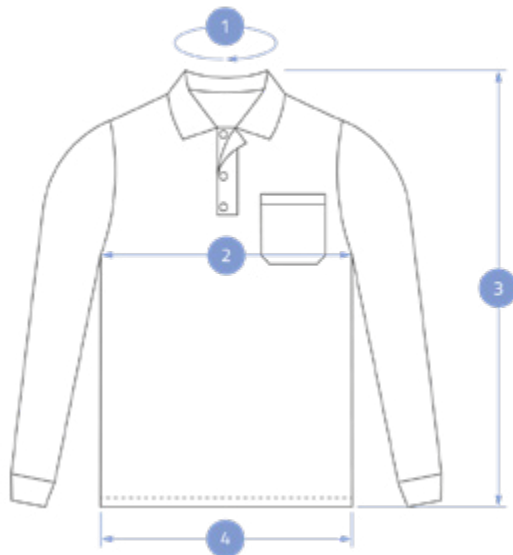
OPTIONS

- Custom size: Bespoke
- Custom colour: Bespoke
- Customer's logo: Embroidery

STANDARD COLORS | KNIT FABRIC 050



Navy Blue	Black	White	Blue	Neon yellow	Orange	Red	Light grey	Dark grey
25	27	28	30	55	38	39	73	40



	2XS	XS	S	M	L	XL	2XL
BODY							
1	38	38	38	40	40	42	42
2	47	50	54	58	62	66	70
3	68	68	70	71	73	74	74
4	47	50	54	58	62	66	70
5	45	46	48	50	52	54	55
SLEEVES							
6	58	58	60	60	62	62	64



WOMEN'S PIQUE TYPE SHORT SLEEVE POLO SHIRT



CE-POLO.PIK.D

DESCRIPTION

- Fabric: Knit fabric PIQUE
- Cut: Female
- Sizes: 2XS – 2XL
- Fastener: Three buttons
- Pocket: One on the left breast
- ESD sign: On the pocket

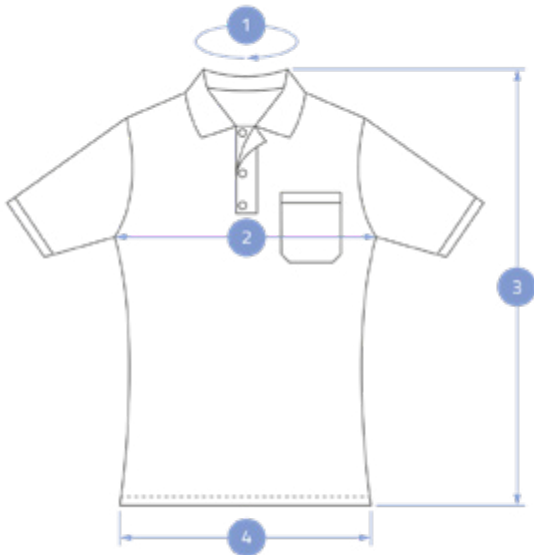
OPTIONS

- Custom size: Bespoke
- Custom colour: Bespoke
- Customer's logo: Embroidery

STANDARD COLORS | KNIT FABRIC PIQUE



Blue	Navy Blue	Black
19	20	23



	2XS	XS	S	M	L	XL	2XL
BODY							
1	38	38	38	40	40	42	42
2	45	47	49	51	54	57	60
3	69	70	71	72	73	74	74
4	49	51	53	55	58	61	64
5	34	25	36	37	38	40	40
SLEEVES							
6	22	23	23	24	24	25	25



MEN'S PIQUE TYPE SHORT SLEEVE POLO SHIRT



CE-POLO.PIKA

DESCRIPTION

- Fabric: Knit fabric PIQUE
- Cut: Male
- Sizes: 2XS – 2XL
- Fastener: Three buttons
- Pocket: One on the left breast
- ESD sign: On the pocket

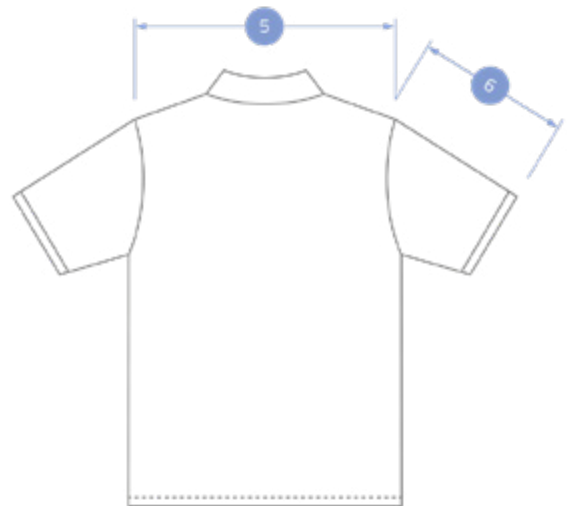
OPTIONS

- Custom size: Bespoke
- Custom colour: Bespoke
- Customer's logo: Embroidery

STANDARD COLORS | KNIT FABRIC PIQUE



Blue	Navy Blue	Black
19	20	23



	2XS	XS	S	M	L	XL	2XL
BODY							
1	38	38	38	40	40	42	42
2	47	50	54	58	62	66	70
3	68	68	70	71	73	74	74
4	47	50	54	58	62	66	70
5	45	46	48	50	52	54	55
SLEEVES							
6	24	24	24	26	26	27	27



WOMEN'S PIQUE TYPE LONG SLEEVE POLO SHIRT



CE-POLO.PIK.G.LS

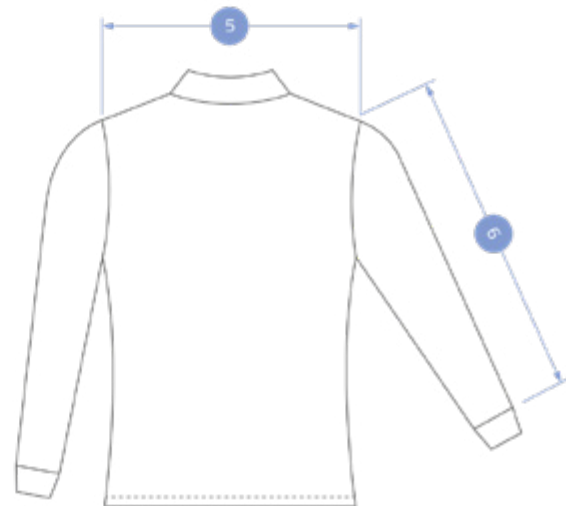
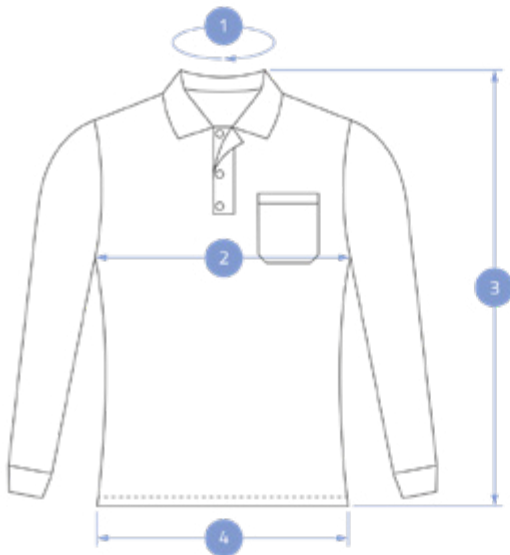
DESCRIPTION

- Fabric: Knit fabric PIQUE
- Cut: Female
- Sizes: 2XS – 2XL
- Fastener: Three buttons
- Pocket: One on the left breast
- Sleeves: Rib cuff
- ESD sign: On the pocket

OPTIONS

- Custom size: Bespoke
- Custom colour: Bespoke
- Customer's logo: Embroidery

STANDARD COLORS | KNIT FABRIC PIQUE

Blue
19Navy Blue
20Black
23

	2XS	XS	S	M	L	XL	2XL
BODY							
1	38	38	38	40	40	42	42
2	45	47	49	51	54	57	60
3	69	70	71	72	73	74	74
4	49	51	53	55	58	61	64
5	34	35	36	37	38	40	40
SLEEVES							
6	59	60	61	62	63	64	65



MEN'S PIQUE TYPE LONG SLEEVE POLO SHIRT



CE-POLO.PIKA-LS

DESCRIPTION

- Fabric: Knit fabric PIQUE
- Cut: Male
- Sizes: 2XS – 2XL
- Fastener: Three buttons
- Pocket: One on the left breast
- Sleeves: Rib cuff
- ESD sign: On the pocket

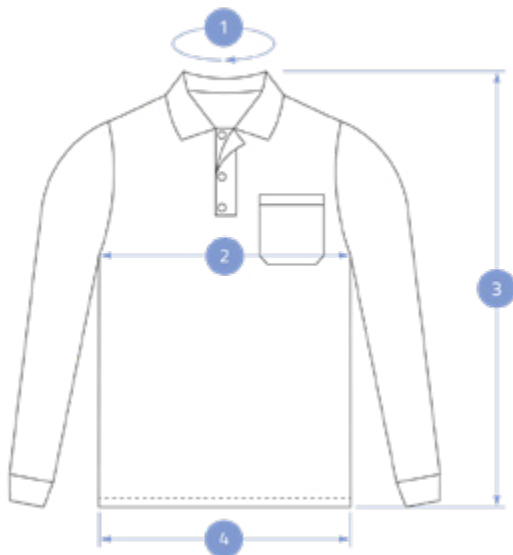
OPTIONS

- Custom size: Bespoke
- Custom colour: Bespoke
- Customer's logo: Embroidery

STANDARD COLORS | KNIT FABRIC PIQUE



Blue	Navy Blue	Black
19	20	23



	2XS	XS	S	M	L	XL	2XL
BODY							
1	38	38	38	40	40	42	42
2	47	50	54	58	62	66	70
3	68	68	70	71	73	74	74
4	47	50	54	58	62	66	70
5	45	46	48	50	52	54	55
SLEEVES							
6	58	58	60	60	62	62	64



CLASSIC SWEATSHIRT



CE-BLUZA.260.BS

DESCRIPTION

- Fabric: Knit fabric 260
- Cut: Unisex
- Sizes: 2XS – 2XL
- Neck: Rib cuff
- Sleeves: Rib cuff
- Bottom: Rib welt
- ESD sign: Side tag

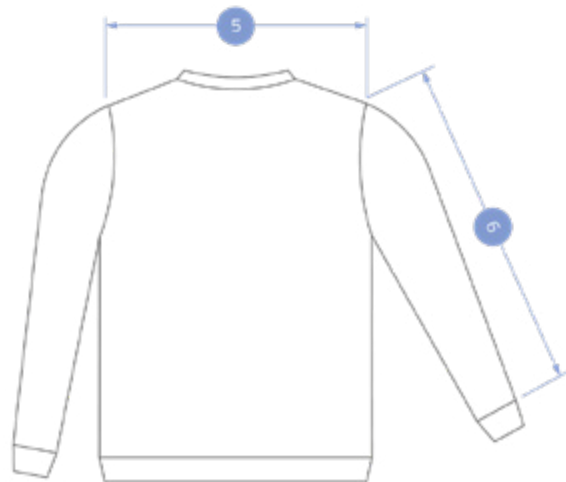
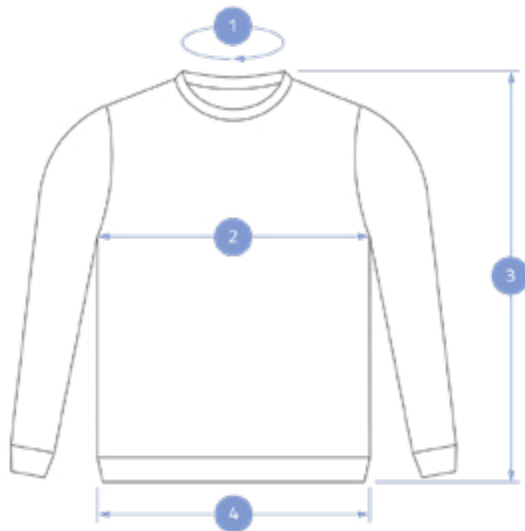
OPTIONS

- Custom size: Bespoke
- Custom colour: Bespoke
- Customer's logo: Embroidery

STANDARD COLORS | KNIT FABRIC 260



Light Grey	Blue	Navy Blue	Black
68	35	34	26



	2XS	XS	S	M	L	XL	2XL
BODY							
1	40	42	44	46	47	48	49
2	46	50	54	58	62	66	70
3	56	56	59	63	66	69	72
4	44	48	52	56	60	64	68
5	47	48,5	52	56	60	64	68
SLEEVES							
6	56	57	58	61	63	67	70



ZIP UP SWEATSHIRT



CE-BLUZA.260.UP

DESCRIPTION

- Fabric: Knit fabric 260
- Cut: Unisex
- Sizes: 2XS – 2XL
- Fastener: Covered zipper
- Neck: Turtle neck
- Sleeves and bottom: rib cuffs
- Pockets: two side seam pockets
- ESD sign: Side tag

OPTIONS

- Custom size and front pockets: Bespoke
- Custom colour: Bespoke
- Customer's logo: Embroidery

STANDARD COLORS | KNIT FABRIC 260



Light Grey	Blue	Navy Blue	Black
68	35	34	26



	2XS	XS	S	M	L	XL	2XL
BODY							
1	38	38	38	40	40	42	42
2	47	50	54	58	62	66	70
3	68	68	70	71	73	74	74
4	47	50	54	58	62	66	70
5	45	46	48	50	52	54	55
SLEEVES							
6	58	58	60	60	62	62	64



ESD SOFTSHELL BLACK



CE-SOFTSHELL.SFTL

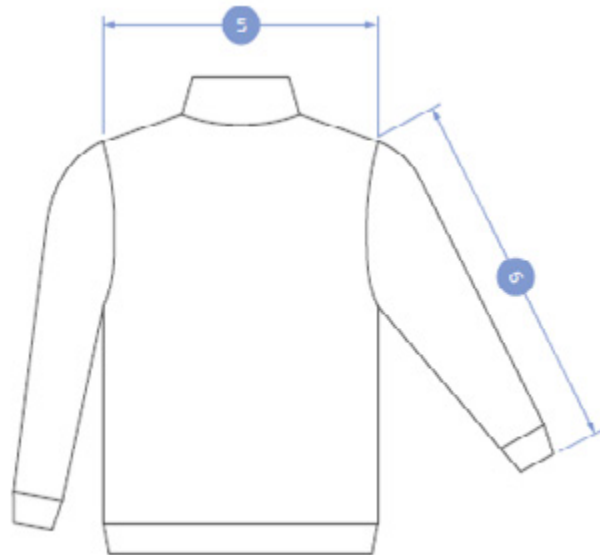
DESCRIPTION

- Material: SFTL fabric
- Cut: Unisex
- Sizes: 2XS – 2XL
- Fastener: Covered zipper
- Pockets: two side seam pockets
- Sleeves: rib cuff
- Bottom: rib welt
- ESD marking: side label

OPTIONS

- Custom size and front pockets: Bespoke
- Custom colour: Bespoke
- Customer's logo: Embroidery

STANDARD COLORS | KNIT FABRIC 260

Black
37

	2XS	XS	S	M	L	XL	2XL
BODY							
1	46	46	47	48	50	51	52
2	52	54	56	58	60	62	64
3	70	70	71	72	72	73	73
4	41	43	45	47	49	51	53
5	41	42	43	44	45	47	48
SLEEVES							
6	64	65	65	67	68	70	73



STANDARD COAT - WOMEN'S



CE-FARTU.065.D

DESCRIPTION

- Fabric: Fabric 065
- Cut: Female
- Sizes: 2XS – 2XL
- Fastener: Covered metal snaps
- Pockets:
 - two on the bottom
 - one on the left breast
 - one on the left sleeve
- ESD sign: On the breast pocket

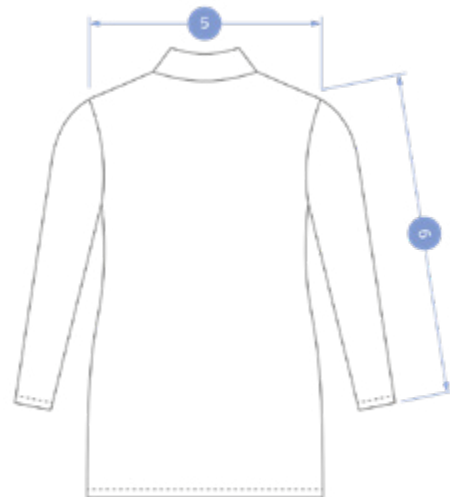
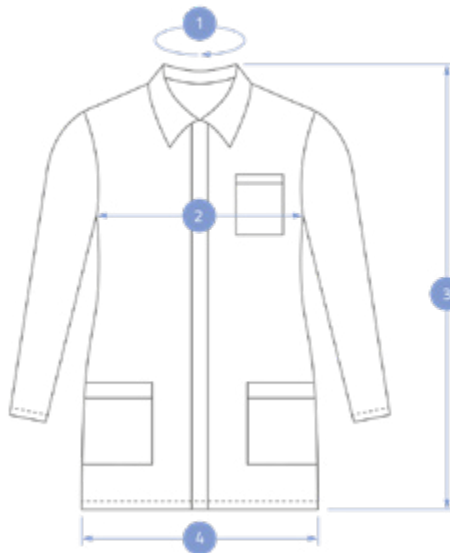
OPTIONS

- Custom size: Bespoke
- Custom colour: Bespoke
- Customer's logo: Embroidery

STANDARD COLORS | FABRIC 065



White	Blue	Navy Blue	Green	Yellow	Light grey	Dark grey	Black
01	02	03	04	06	14	29	22



	2XS	XS	S	M	L	XL	2XL
BODY							
1	35	36	38	39	40	40	42
2	44	46	49	51	54	57	61
3	79	82	85	88	90	92	92
4	48	50	52	54	58	62	66
5	39	40	41	42	43	43	44
SLEEVES							
6	53	54	56	56	58	60	62



STANDARD COAT



CE-FARTU.065

DESCRIPTION

- Fabric: Fabric 065
- Cut: Male
- Sizes: 2XS – 2XL
- Fastener: Covered metal snaps
- Pockets:
 - two on the bottom
 - one on the left breast
 - one on the left sleeve
- ESD sign: On the breast pocket

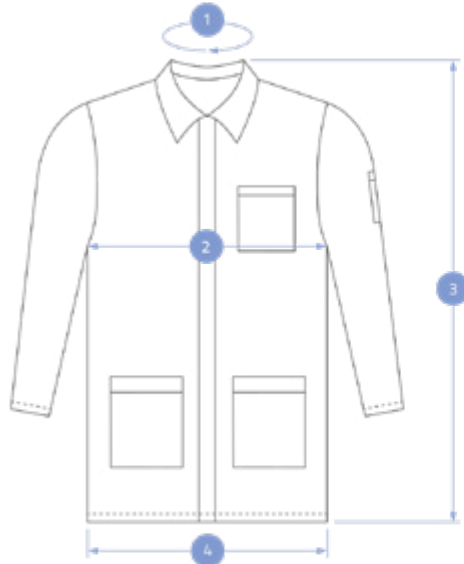
OPTIONS

- Custom size: Bespoke
- Custom colour: Bespoke
- Customer's logo: Embroidery

STANDARD COLORS | FABRIC 065



White	Blue	Navy Blue	Green	Yellow	Light grey	Dark grey	Black
01	02	03	04	06	14	29	22



	2XS	XS	S	M	L	XL	2XL
BODY							
1	45	46	47	47	48	48	49
2	56	58	60	62	64	66	68
3	80	80	85	90	95	100	105
4	56	58	60	62	64	66	68
5	45	46	47	48	49	50	51
SLEEVES							
6	58	60	62	64	66	68	68



PREMIUM COAT



CE-FARTU.95

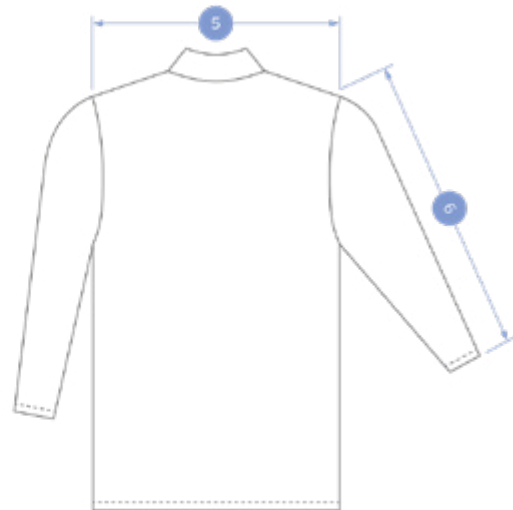
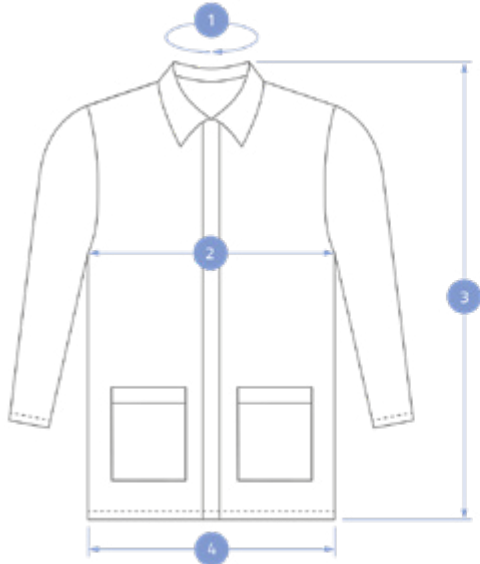
DESCRIPTION

- Material: knit fabric 95
- Cut: unisex
- Sizes: 2XS – 2XL
- Closure type: concealed snap fasteners
- Pockets: two lower pockets
- Sleeves: finished with elasticated hems
- ESD marking: side label

OPTIONS

- Non-standard sizes: on request
- Custom color: to be agreed upon
- Customer logo: embroidery

STANDARD COLORS | FABRIC 95



	2XS	XS	S	M	L	XL	2XL
BODY							
1	45	46	47	48	48	48	49
2	56	58	60	62	64	66	68
3	80	80	85	90	95	100	105
4	56	58	60	62	64	66	68
5	45	46	47	48	49	50	51
SLEEVES							
6	58	60	62	64	66	68	68



LADIES TROUSERS



CE-SPODN.065.D

DESCRIPTION

- Fabric: Fabric 065
- Cut: Female
- Sizes: 36 - 48
- Fastener: Zipper
- Pockets: Two side pocket, one on the backside
- Legs: Finished with hem
- ESD sign: Side tag

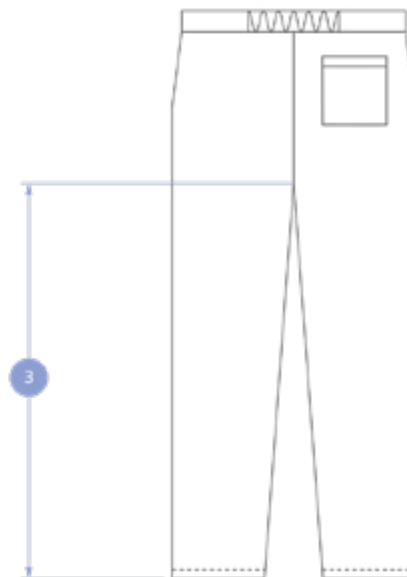
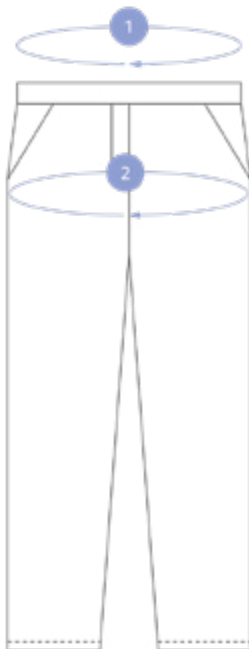
OPTIONS

- Custom size: Bespoke
- Custom colour: Bespoke

STANDARD COLORS | FABRIC 065



Blue	Navy Blue	Black	Dark grey
02	03	22	29



	36	38	40	42	44	46	48
1	68 - 72	72 - 76	76 - 80	80 - 84	84 - 88	88 - 92	92 - 96
2	45	47	49	51	53	55	57
3	72	72	73	73	74	74	75



MEN'S TROUSERS



CE-SPODN.065

DESCRIPTION

- Fabric: Fabric 065
- Cut: Male
- Sizes: 44 - 60
- Fastener: Zipper
- Pockets:
 - two side pocket
 - one on the backside
 - one on the right thigh
- Legs: Finished with hem
- ESD sign: Side tag

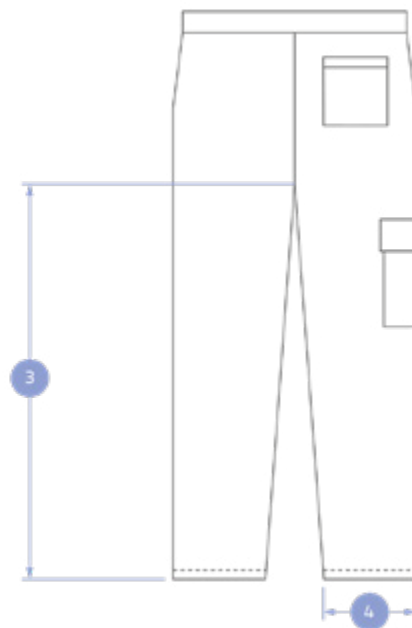
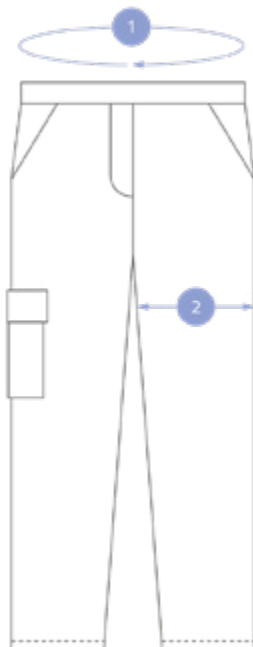
OPTIONS

- Custom size: Bespoke
- Custom colour: Bespoke

STANDARD COLORS | FABRIC 065



Blue	Navy Blue	Black	Dark grey
02	03	22	29



	44	46	48	50	52	54	56	58	60
1	78	82	86	90	94	98	102	106	110
2	28	30	31	32	33	34	35	36	37
3	82	82	82	82	82	82	84	84	84
4	21	22	23	24	25	26	27	28	29



CLEAN ROOM COAT



CE-FARTU.099

DESCRIPTION

- Material: fabric 099
- Cut: unisex
- Sizes: 2XS – 2XL
- Closure type: concealed snap fasteners
- Pockets: one on the left chest, two lower pockets
- Sleeves: finished with elasticated hems
- ESD marking: internal label

OPTIONS

- Custom size: Bespoke
- Custom colour: Bespoke
- Customer's logo: Embroidery
- Fastener: Covered zipper

STANDARD COLORS | FABRIC 099



White

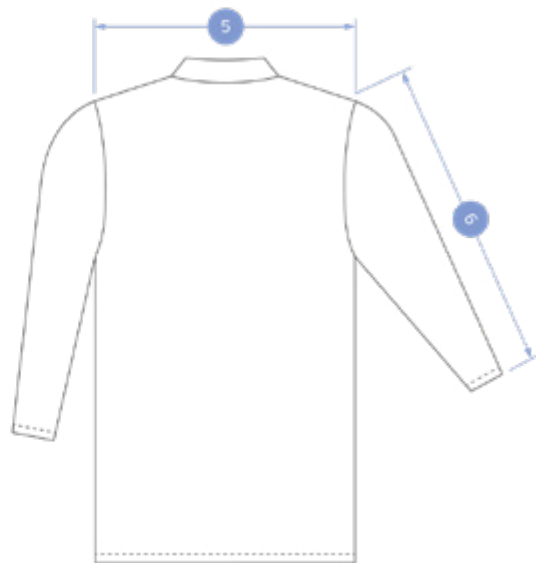
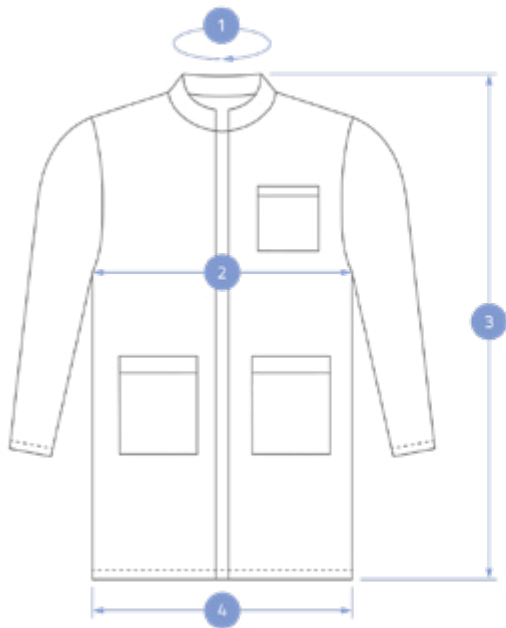
08

Navy Blue

10

Blue

15



	2XS	XS	S	M	L	XL	2XL
BODY							
1	44	45	46	47	48	49	50
2	55	57	60	63	65	67	69
3	90	95	100	105	110	115	120
4	55	57	60	63	65	67	69
5	45	46	47	48	49	50	51
SLEEVES							
6	58	58	60	62	64	64	66



CLEAN ROOM COAT WITH INTEGRATED HOOD



CE-FARTU.099.KAP

DESCRIPTION

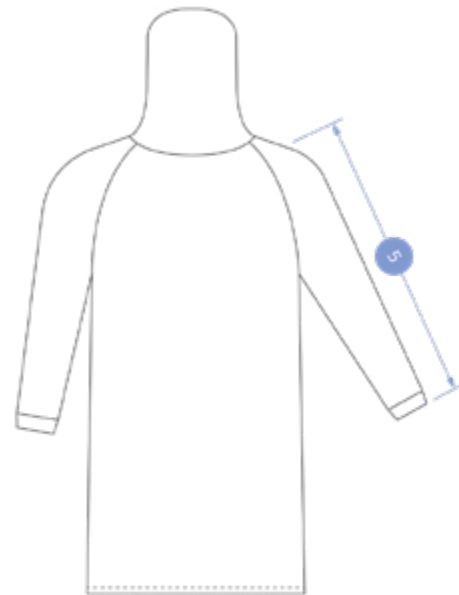
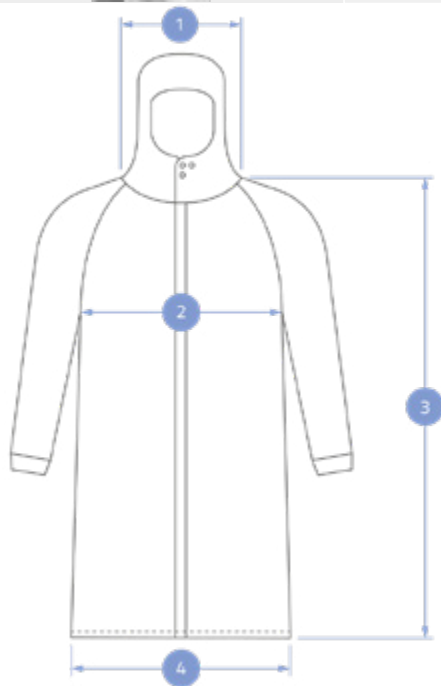
- Fabric: Fabric 099
- Cut: Unisex
- Sizes: 2XS – 2XL
- Fastener: Covered zipper
- Sleeves: Rib cuff
- ESD sign: Internal tag

OPTIONS

- Custom size: Bespoke
- Custom colour: Bespoke

STANDARD COLORS | FABRIC 099

White	Navy Blue	Blue	Lemon green
08	10	15	18



	2XS	XS	S	M	L	XL	2XL
BODY							
1	18	18	18	18	18	18	18
2	54	58	62	66	70	74	78
3	102	103	104	105	106	107	108
4	56	60	64	68	70	74	78
SLEEVES							
5	79	80	80,5	81,5	82,5	83,5	85



CLEAN ROOM COVERALL



CE-KOMBI.099

DESCRIPTION

- Fabric: Fabric 099
- Cut: Unisex
- Sizes: 2XS – 2XL
- Fastener: Zipper
- Sleeves: Finished with elastic hem
- Legs: Finished with elastic hem
- Hood: Separated from the coverall adjustable, tied under the arms
- ESD sign: Internal tag

OPTIONS

- Custom size: Bespoke
- Custom colour: Bespoke
- Hood: Integrated with the coverall

STANDARD COLORS | FABRIC 099

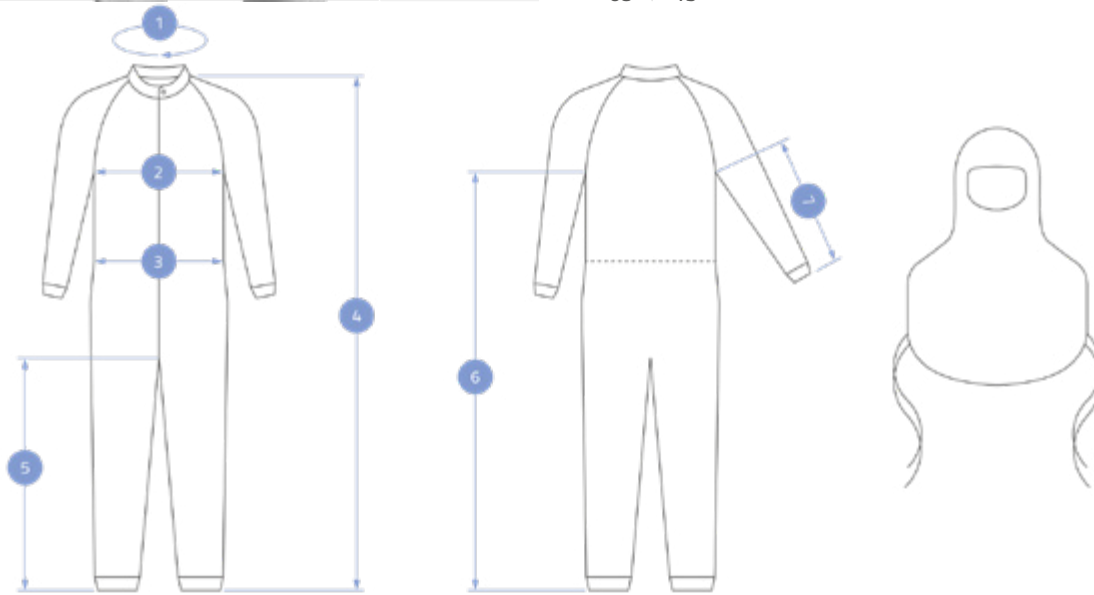


White

08

Blue

15



	2XS	XS	S	M	L	XL	2XL
BODY							
1	47	47	48	51	52	53	54
2	51	55	59	63	67	71	75
3	42	46	50	54	58	62	66
4	164	165	166	169	171	173	175
5	78	78	79	81	81	82	84
6	132	133	134	136	137	138	138
SLEEVES							
7	60	61	62	63	64	65	65



STATIC CONTROL

279

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ANTISTATIC FOOTWEAR

Comfortable and aesthetic antistatic footwear provides an efficient and comfortable way to discharge electrostatic charges generated by humans.

The EN-PN 61340-5-1 norm requires that the resistance level to grounding should be within 50kΩ - 100MΩ range.

When using ESD shoes / floor as the basic grounding for employees, the resistance level should be within 750kΩ - 35MΩ range.

Electrical resistance of ESD footwear should be measured between the operator's hands and the metal base on which he must stand on with both legs. For new shoes, it is recommended to use them for at least 30 minutes before the first test. For a periodic inspection, 5 minutes of use is sufficient to obtain a reliable result.

ABEBA FOOTWEAR 5310/5300

AB-5310/5300
DESCRIPTION

- External material: leather
- Slip resistant special rubber outsole
- Heel strap foldable, adjustable
- Perforated
- Size: 36 - 47
- Colour: black/white

ABEBA ESD SAFETY CLOGS, 7131030

AB-7131030
DESCRIPTION

- Outer material: leather | Color: white
- Shock - absorbing gel insole (AB - 3563)
- Adjustable heel strap with Velcro fastener
- Rubber insert on the instep
- Size: 35 - 48
- Non - slip sole
- Steel toecap
- Special „Silver Point“ moisture - absorbing lining - antibacterial

ABEBA FOOTWEAR 4085/4080

AB-4085/4080
DESCRIPTION

- External material: leather
- Slip resistant PU outsole
- 2 adjustable instep straps, velcro fastening
- No metal parts
- Size: 34 - 48
- Colour: black/white

ABEBA FOOTWEAR 7131036/ 7131031

AB-7131036/7131031
DESCRIPTION

- External material: leather
- Lining microfiber, moisture absorbing, antibacterial
- Shock absorbing gel insole (AB-3562)
- Double velcro fastening
- Size: 35 - 48
- Colour: black/white

ESD SHOES, FLASH 4005 XP



ATL-FLASH4005XP

DESCRIPTION

- Size: 36 - 49
- XP® metal free puncture - resistance
- alu - tec® aluminium toecap
- 3D - cushioning system
- aktiv - X lining, clima - stream® concept
- ESD - fitting
- also available in W12, W13 & W14
- adapted for orthopedic insoles
- MPU® INNOFLEX System
- Mesh - upper

ESD SHOES, RUNNER 95



ATL-RUNNER95

DESCRIPTION

- Size 36 - 48
- XP metal free puncture - resistance
- 3D cushioning system
- aktiv X lining
- clima stream concept
- ESD
- adapted for orthopedic insoles
- Hydrophobised microfibre upper
- MPU Rebound System
- Sporty sole system

ESD CLOGS, CL 370



ATL-CL370

DESCRIPTION

- Size: 35 - 43
- 3D - cushioning system
- aktiv - X lining
- clima - stream® concept
- ESD - fitting
- MPU Light sole technology
- steelcap
- Cleanline upper

ESD SHOES, A 285 XP



ATL-A285XP

DESCRIPTION

- Size: 36 - 49
- XP metal free puncture - resistance
- 3D cushioning system
- aktiv X lining
- ESD
- Sneaker sole technology
- adapted for orthopedic insoles
- Full - grained calf leather



Detailed information about products from this page (parameters, sizes) can be found on our website: sklep.renex.pl

ESD SHOES, EXENA S1P

EX-707007K
DESCRIPTION

- EN ISO 20345:2011 S1P SRC
- UPPER: Knitted textile, great flexibility and breathability
- INSOLE: Shock absorption in heel area, removable
- OUTSOLE: Double - density polyurethane, maximum level of slip - resistance (SRC)
- PIERCE RESISTANCE: Textile material, resistance to 1100 N
- TOECAP: composite, resistant up to 200 J
- ESD
- Size: 35 - 48

ESD SHOES, EXENA NEPTUNE

EX-NEPTUNE
DESCRIPTION

- S1P ESD SRC- EN ISO 20345:2011
- UPPER: Soft suede leather
- LINING: Breathable, abrasion resistant textile
- TOECAP: Textile pierced proof footbed
- FOOTBED: Soft multilayer Polyurethane, Removable, anatomic, antistatic
- OUTSOLE: PU 2D antislip SRC
- SAFETY TOE CAP: Aluminium, 200J
- ESD
- Size: 35 - 48

ESD SHOES, CL 370

EX-STARDUST
DESCRIPTION

- S1 PS FO SR ESD - EN ISO 20345:2011
- UPPER: Soft suede leather and breathable textile material
- LINING: Breathable, abrasion-resistant textile material
- INSOLE: Soft multilayer polyurethane, removable, anatomical, antistatic
- SOLE: PU 2D, SRC slip-resistant
- PUNCTURE RESISTANCE: Textile anti-perforation midsole
- TOE CAP: Aluminum, 200J
- ESD
- Size: 35 - 48

ESD CLOGS, A 285 XP

EX-E101
DESCRIPTION

- OB E A FO ESD SRC - EN ISO 20347:2012
- UPPER: Breathable texfiber
- LINING: Antibacterial, Breathable, abrasion resistant textile
- FOOTBED: Removable, cushioned, antistatic
- OUTSOLE: PU 1D antislip SRC ESD
- ESD
- Size: 35 - 48

i Detailed information about products from this page (parameters, sizes) can be found on our website: sklep.renex.pl

REECO ESD TOOL VEST



RE-HM-607901

DESCRIPTION

- Our anti - static tool vest is the ideal solution for professionals who need a convenient and safe way to store their work tools. - The vest is designed to protect against static electricity, making you safer while working, as required by the EPA zone.
- Size: universal
- Dimensions: 21.3 x 25.4 cm
- Color: yellow/black
- Resistance: 10⁶-10⁹
- Additional Features: The vest is equipped with tool compartments for easy and convenient storage and quick access to necessary accessories.
- The vest provides comfort while working, and its functionality makes it an indispensable piece of equipment for any professional.
- Thanks to its anti - static properties, it is ideal for working in environments where controlling static electricity is crucial.

ESD TROUSERS BELT



RE-HM-208013B

SPECIFICATION

WIDTH	32 mm
LENGTH	130 mm
WEIGHT	0,7 kg
COLOUR	Black
RESISTANCE	10 ⁶ - 10 ⁹ Ohm

CHECK OUT
ANTISTATIC
CLOTHING

Reeco
ESD & Cleanroom Clothing

PAGES 255 - 278



CLOTHING.REECO.INFO

REECO ESD POLYURETHANE PALM COATED GLOVES

DESCRIPTION

- Antistatic gloves
- Palm coated with a layer of polyurethane
- Made of knit with addition of carbon fiber
- Resistance: $10^7\Omega$
- Available sizes: S, M, L, XL, XXL

CAT. NO.	COLOR	MATERIAL
MK-PKG-NB-231-S	White	Nylon
MK-PKG-NS-231-S	Grey	Polyester

REECO ESD POLYURETHANE FINGERTIPS COATED GLOVES

DESCRIPTION

- Antistatic gloves with anti-slip coating on fingertips
- Material with carbon fiber blend
- Resistance: $10^7\Omega$
- Sizes: S, M, L, XL, XXL

CAT. NO.	COLOR	MATERIAL
MK-TDK-NS-298	Grey	Polyester
MK-TDK-NB-298	White	Nylon

REECO ANTISTATIC POLYESTER GLOVES

DESCRIPTION

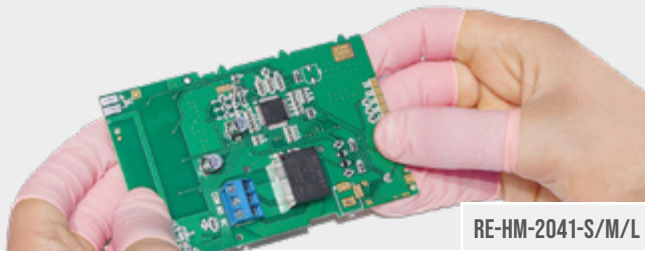
- Antistatic gloves without anti-slip coating
- Material with carbon fiber blend
- Resistance: $10^7\Omega$
- Sizes: S, M, L, XL, XXL

CAT. NO.	COLOR	MATERIAL
MK-SKG-211MM	Grey	Polyester
MK-SKG-NB-211	White	Polyester

MECHANICAL HAZARD EN388:2003

MECHANICAL RISKS	MK-PKG-NB	MK-PKG-NS	MK-TDK-NB/ MK-TDK-NS	MK-SKG
Abrasion resistance	4	2	0	0
Tear strength resistance	3	2	3	3
Blade cut resistance	1	1	1	1
Puncture resistance	1	1	X	X

ANTISTATIC NON-POWDERED FINGER COTS

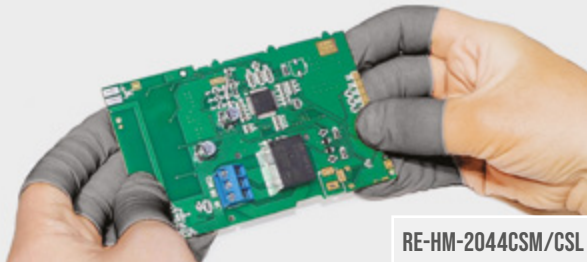


RE-HM-2041-S/M/L

DESCRIPTION

- Colour pink
- Package: 1440 pieces
- Material: dissipative latex
- Powder free
- Size S, M, L

CONDUCTIVE FINGER COTS



RE-HM-2044CSM/CSL

DESCRIPTION

- Resistance: $10^3 - 10^6$
- Type: conductive
- Black colour
- Surface: glossy
- Size M, L
- Quantity: 1440pcs/pack

REECO ESD WRIST STRAP 001/003



RE-001/RE-003

DESCRIPTION

- Anti-static, non-allergenic wrist strap made out of elastic fabric
- Adjustable strap
- Plug: 10 mm latch / banana plug / crocodile clip for banana plug
- Cable length: 1.8 m | 3.2 m
- Colour: blue | burgundy

REECO ESD WRIST STRAP 004



RE-004

DESCRIPTION

- Anti-static, non-allergenic wrist strap made out of elastic fabric
- Adjustable strap
- Plug: 10 mm latch / 10 mm latch
- Cable length: 1.8 m
- Colour: blue

REECO SINGLE USE SHOE COVERS



RE-HM-20521

DESCRIPTION

- Disposable shoe covers for anti-static footwear
- They are used in hospitals, Cleanrooms and other industrial facilities
- 100 pcs per package

REECO ANTISTATIC SHOE STRAP



RE-006

DESCRIPTION

- For low-heeled shoes
- Buckle for easy adjustment
- Length of conductive tape: 43 cm
- Resistor: 1 mΩ
- Non-slip outer part of the band
- Non-slip inner part of the band prevents slipping off of the shoe

REECO SINGLE USE ANTISTATIC SHOE STRAP

RE-HM-6229
DESCRIPTION

- Single use straps for use in areas where voltage higher than 120V is not present
- Self-adhesive
- 100 pieces per package

REECO ESD SHOESTRAP

RE-008
DESCRIPTION

- For low heeled shoes
- Velcro's fasteners - Length of conductive tape: 43 cm
- Reusable
- Resistor 1 MOhm
- Non - slip outer part of the strap
- Non - slip inner part of the strap prevents it from sliding

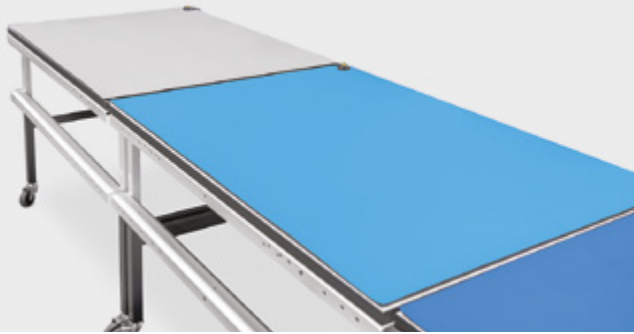
REECO ANTI-STATIC TABLE MATS

DESCRIPTION

- Very high durability against temperature, mechanical damage, oils, liquids with an alkaline reaction
- Excellent elastic properties
- Surface resistance from 10^7 to $10^9 \Omega$
- Mats are offered both with or without accessories
- Thickness: 2 mm
- Accessories:
 - grounding wire
 - wrist strap with cable
 - latches for self-assembly

CAT. NO.	MAT DIMENSIONS	MAT COLOUR	ACCESSORIES
RE-MSMN2-Z	120 x 100 cm	Blue	Wrist strap + cable
RE-MSMS2-Z	120 x 100 cm	Grey	Wrist strap + cable
RE-MSMZ2-Z	120 x 100 cm	Green	Wrist strap + cable
RE-MSMN2-Z0.6	60 x 120 cm	Blue	Wrist strap + cable
RE-MSMS2-Z0.6	60 x 120 cm	Grey	Wrist strap + cable
RE-MSMZ2-Z0.6	60 x 120 cm	Green	Wrist strap + cable
RE-MSMZ2-Z0,5x0,6	60 x 50 cm	Green	Wrist strap + cable
RE-MSMN2-0,5x0,6	60 x 50 cm	Blue	None
RE-MSMS2-0,5x0,6	60 x 50 cm	Grey	None

REECO ANTISTATIC TEXTURED MAT



- Very high-quality mat with a textured surface resistant to mechanical damage and high temperatures
- Lies flat without curling or lifted corners
- Scratch- and abrasion-resistant surface
- Charge decay time: 5000 – 500 V < 1.9 s
- Surface resistance (antistatic layer): $10^7 - 10^9$ Ohm
- Surface resistance (conductive layer): 10^6 Ohm
- UV resistance: up to 30 minutes

CAT. NO.	WIDTH	LENGTH	MAT COLOR
RE-MSMS2-1200T	750 mm	1200 mm	Light grey
RE-MSMN2-1200T	750 mm	1200 mm	Blue
RE-MSMS2-1530T	750 mm	1530 mm	Light grey
RE-MSMN2-1530T	750 mm	1530 mm	Blue
RE-MSMS2-1830T	750 mm	1830 mm	Light grey
RE-MSMN2-1830T	750 mm	1830 mm	Blue

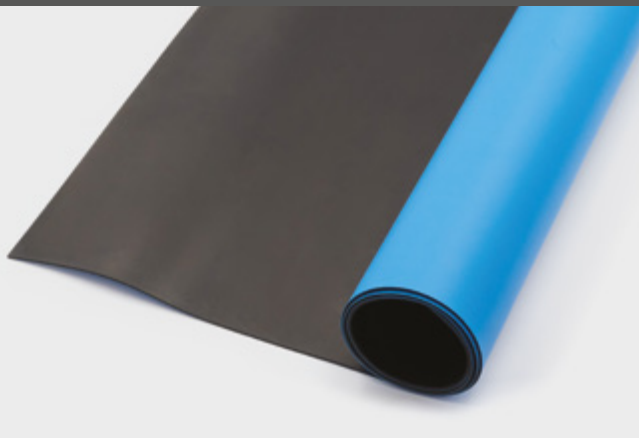
TEXTURED ANTISTATIC MAT BY THE LINEAR METER



- **FLEXIBLE SOLUTION**
Adjust the mat length to your needs with the option to order by the linear meter

CAT. NO.	RE-MSMS2-T	RE-MSM2-T
WIDTH	1200 mm	1200 mm
LENGTH	1 lin. m	1 lin. m
MAT COLOR	Light grey	Green

TEXTURED ANTISTATIC MAT 1200 X 600 MM



CAT.NO.	WIDTH	LENGTH	MAT COLOR
RE-MSMS2-0.6MB	600 mm	1200 mm	Light grey
RE-MSMN2-0.6MB	600 mm	1200 mm	Blue

GROUNDING CORD

RE-HM-6233
SPECIFICATION

- Clasp with a diameter of 10 mm
- Additionally, a female latch

CABLE	LENGTH	SOCKETS	LATCH
1 MOHM	3300 mm	male latch / banana - crocodile clip	Additionally, a female latch

PLUG FOR SCHUCKO SOCKETS

RE-GPH-06
DESCRIPTION

- Plug for Schuko sockets for two latches and one banana plug
- 2 banana - type sockets - 2x 4 mm
- 1 snap - in socket - 10 mm

PLUG FOR SCHUKO-TYPE SOCKETS

RE-GPH-07
DESCRIPTION

- A product designed to provide safe earthing in EPA (Electrostatic Protected Area) zones and to meet the highest standards of protection against electrostatic discharge.
- Plug type: Grounding plug compatible with Schuko - type sockets, equipped with two working contacts and one grounding pin.
- Two 4 mm diameter sockets (2x snap) for the connection of earthing cables.
- M5 eyelet connector with screw: One robust M5 eyelet connector with screw for a safe and reliable earthing connection.
- A product designed for EPA areas where control of electrostatic charge is essential to protect sensitive electronic equipment.

EARTHING BAR FOR A LATCH AND 2 BANANA PLUGS

RE-LBH-08
DESCRIPTION

- Earthing bar for a latch and two banana plugs
- Each input has a resistor 1 MOhm

GROUNDING SET WITH MEASURING POINT

RE-BS-H15
DESCRIPTION

- The kit with a measuring point, is used in EPA zones to equalize potentials for the floor, by connecting copper strips.
- ESD grounding bracket with copper tape.
- Tape length: 2m.

ESD FLOR DOOR MAT



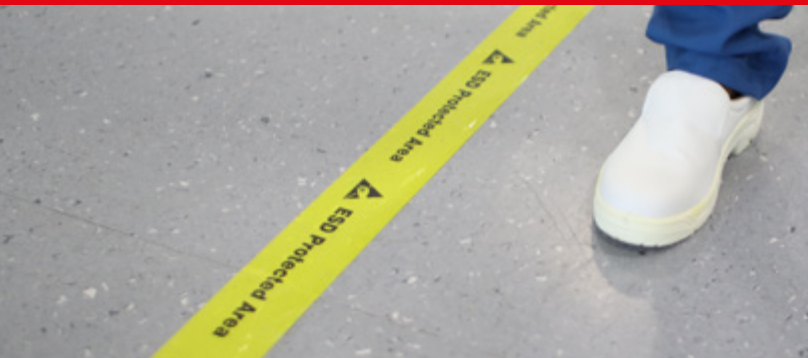
RE-BS-M33

SPECIFICATION

- Entrance mat for indoor use
- Antistatic
- Light resistant
- Non - slip bottom

TEMP. RESISTANCE	MECHANISM	DIMENSION	WEIGHT
120°C	Clamps	1050 x 1550 x 8 mm	11,53 kg

FLOOR TREAD

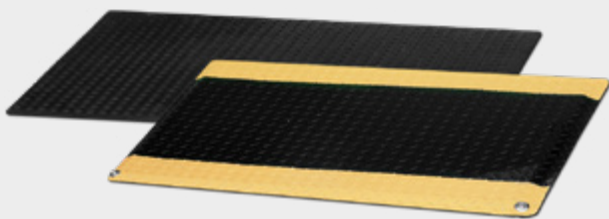


SPECIFICATION

- Price per 1 linear meter (lm)
- Resistance: $10^7 - 10^9 \Omega$

CAT. NO.	MAT SIZE	MAT COLOUR	WEIGHT
AR-GGRA-MB	1900 x 2 mm	Grey (G306)	7 kg
AR-GGRB-MB	1220 x 3,5 mm	Dark grey (G308)	

REECO ESD ANTI-FATIGUE MATS



SPECIFICATION

- Anti-static mats eliminate employee's fatigue due to prolonged work in standing position
- Specially designed, ergonomic surface, provides maximum comfort while increasing productivity

CAT. NO.	MAT SIZE	MAT COLOUR	NO. OF LAYERS
RE-HM-1095	600 x 900 x 17 mm	Black with yellow edges	Single-layer
RE-HM-10970	600 x 900 x 15 mm	Black	Dual-layer
RE-HM-10971	600 x 900 x 15 mm	Black	Triple-layer

REECO ESD ANTIFATIGUE MATT INTERLOCKING



SPECIFICATION

- Material: a mixture of natural rubbers
- Surface resistance: 10^5ohm
- Available modules: right, middle, left
- Edges: Beveled to reduce the risk of tripping
- Increases comfort when working while standing - Improves efficiency at work.
- Provides an appropriately flexible / cushioned standing surface
- Minimises strain on the human musculoskeletal system
- Reduces fatigue while standing

CAT. NO.	MODULE SIZE	MODULE TYPE	WEIGHT
RE-HM-1023P	600 x 900 x 17 mm	Right	3 kg
RE-HM-1023L		Left	
RE-HM-1023M		Central	

ESD & CLEANROOM FLOORING

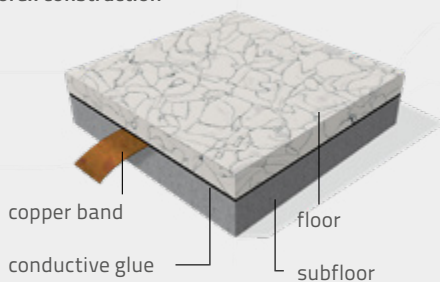


7 BENEFITS OF COLOREX

- Full compliance with and exceeding of standards established for EPA zones and cleanroom environments
- Lifetime conductivity guarantee
- Fully repairable and stain removable
- Unique dimensional stability
- Benefits of low plasticizer content resulting in extremely low emissions
- Excellent hygienic properties, high density, and smooth surface
- Resistance to heavy loads

COLOREX SD (DISSIPATIVE) / EC (CONDUCTIVE)

Colorex construction



DESCRIPTION

- Colorex glued to the floor
- Suitable for very intensive areas, also by forklift trucks/pallet trucks
- As an alternative to epoxy coatings
- Easy repair of damage such as burning, rubbing or decolorization
- Thickness: 2 mm | Size: 615 x 615 mm
- Resistance: $106 \leq R \leq 108 \Omega$ (SD) / $5 \cdot 10^4 \leq R \leq 10^6 \Omega$ (EC)
- Electrical resistance in combination with ESD Shoes: ESD: 40 V (SD), 20 V (EC)

OPTIONAL EQUIPMENT

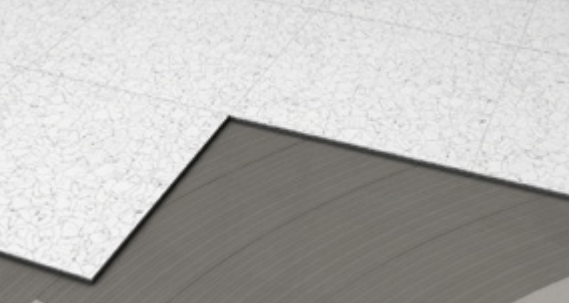
- Corner guards
- Skirting strips
- Trims
- Ramp
- Welding cords

THE COLOREX SYSTEM

Colorex is available with two levels of conductivity – High performance (EC range) and Performance (SD range). There is also a choice of fitting as Colorex can be installed by fully adhering it directly to a subfloor or by bonding it to a raised access floor panel. It can also be laid as part of a loose lay tile system.

	COLOREX EC	COLOREX SD
FUNCTIONALITY	Permanently conductive	Permanently static dissipative
DESCRIPTION	Permanently conductive flooring installed with conductive adhesive and copper tape. Compliant with the safety requirements of the 'person in footwear – flooring' system.	Permanently dissipative flooring installed with conductive adhesive and grounded using a copper tape strip.

3 METHODS INSTALLATION OF COLOREX

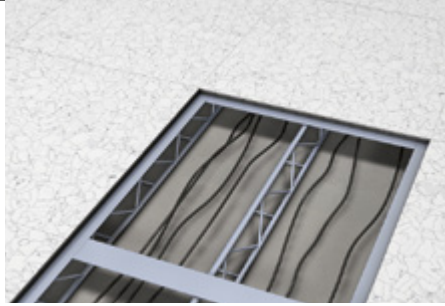


COLOREX GLUED DIRECTLY TO THE FLOOR

Colorex can be installed onto a solid subfloor. When conductive properties are required, this should be done by firstly using a conductive primer after which copper tape, connected to an earth point, and conductive adhesive is applied.

When Colorex is installed using this process, the static charged is drained to earth via the earthing point. When conductivity is not required a standard primer and adhesive can be used.

When Installed on solid floors, Colorex can withstand heavy loads such as fork lift trucks without being damaged. The welding of Colorex tiles is optional for ESD areas however, is a requirement for cleanrooms.

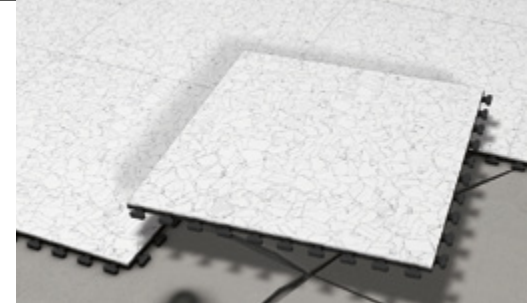


COLOREX ON TOP OF A RAISED FLOOR PANEL

Often Colorex is bonded to a raised access floor panel that can be used in cleanrooms or data centres.

Due to the strength and unique properties of Colorex, it is suitable for use on all formats of raised access floor panels, including those designed to withstand the heavy point loading found in data centres.

Since Colorex has extremely low emissions and a high density, it can be perforated for air flow systems that are often used in combination with raised access floors.



COLOREX WITHOUT THE USE OF GLUE

Colorex plus is a high performance floor covering system consisting of loose lay tiles for all areas of application where expensive sub floor preparation or downtime is an issue.

Colorex plus can be installed without disruption of activities and it can be used immediately after installation, even by fork lift trucks. The unique honeycomb structure on the underside of Colorex plus allows damp floors to be ventilated during use.

Colorex plus tiles offer all the benefits associated with Colorex along with a unique dovetail system that remains hidden under the surface.

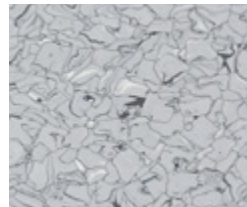
THE COLOREX COLLECTION

Everest



SD 150201 | EC 250201

Adula



SD 150205 | EC 250205
EC plus 621005

Pacific



SD 150221 | EC 250221

Sahara



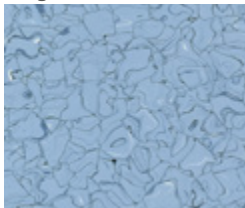
SD 150213 | EC 250213
EC plus 621013

Kilimanjaro



SD 150203 | EC 250203

Niagara



SD 150222 | EC 250222
EC plus 621022

Ivory



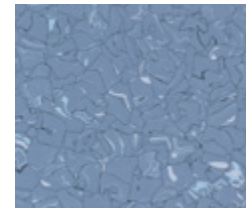
SD 150202 | EC 250202

Moonstone



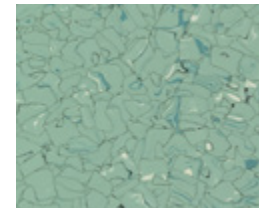
SD 150206 | EC 150206

Atlantic



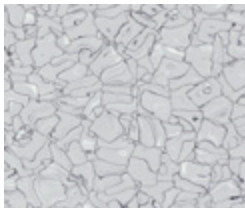
SD 150223 | EC 250223

Jade



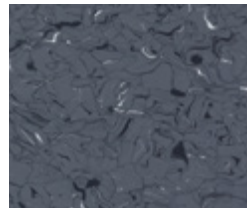
SD 150236 | EC 250236

Montblanc



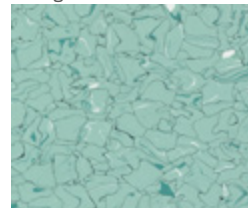
SD 150204 | EC 250204
EC plus 621004

Granite



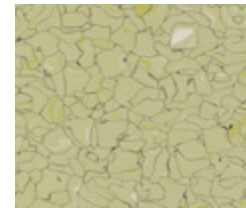
SD 150208 | EC 250208

Twilight



SD 150234 | EC 150234

Musk



SD 150232 | EC 250232

Lux



SD 150212 | EC 250212



A full offer of products from this page can be found on our website: sklep.renex.pl

ESD FLOORING BY GERFLOR



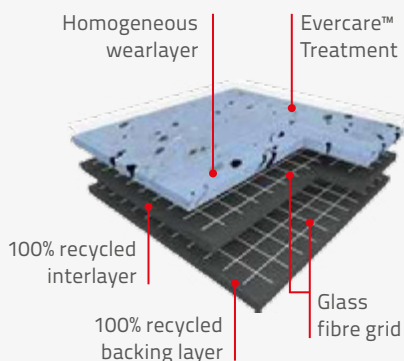
CONDUCTIVE ESD FLOORING

GERFLOR ESD flooring materials, available in both conductive and dissipative versions, are specifically designed to provide reliable protection in sensitive technical environments such as production facilities, electronic equipment areas, operating rooms, and other spaces where electrostatic discharge control is essential.

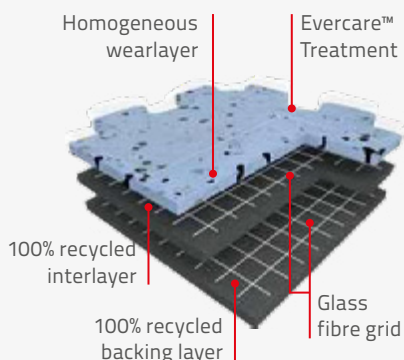
The products not only ensure safety and compliance with industry requirements but also combine functionality with aesthetics, as they are offered in a wide range of colors carefully matched to our homogeneous and heterogeneous flooring collections.

GTI EL5 CONTROL - GTI EL5 CONNECT

GTI EL5 CONTROL



GTI EL5 CONNECT



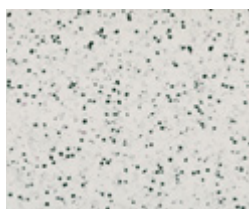
DESCRIPTION

- GTI EL5 Control is a multi-layered looselay vinyl tile, 6 mm thick, reinforced with 2 glass fibre grids. GTI EL5 Cleantech is available in square format with welded joints for clean environments and watertight systems requirements.
- GTI EL5 Connect is a multi-layered looselay vinyl tile, 6 mm thick, reinforced with 2 glass fibre grids. GTI EL5 Connect tiles can be installed using interlocking system with dove tails.
- GTI EL5 wearlayer is 2 mm vinyl homogeneous manufactured with continuous high pressure process, abrasion group P. It offers an outstanding resistance to traffic.
- This floorcovering is treated with Evercare™ technology: the latest improvements in polyurethane surface treatment obtained by UV laser cross-linking. Evercare™ offers easy maintenance and resistance against staining of chemical products used in healthcare like betadine, eosin or anti-bacterial hand gel; and decontamination protocols. This treatment has excellent maintenance characteristics; it requires no wax for life!
- The carbon encapsulated granules throughout its full thickness and the conductive backing and conductive surface treatment ensure optimal and consistent conductive properties throughout its full life expectancy.
- $5 \times 10^4 \leq Rt \leq 10^6$ according to EN 1081. It has permanent antistatic properties.
- $< 2000 V$ according to EN 1815. The product is non-emissive of volatile organic compounds with $< 10 \text{ microgram/m}^3$ (TVOC after 28 days ISO 16000-6).

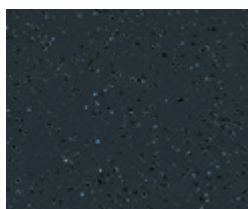
GTI EL5 CONTROL	GF-GTI-EL5-CONTROL
GTI EL5 CONNECT	GF-GTI-EL5-CONNECT

AVAILABLE PATTERNS

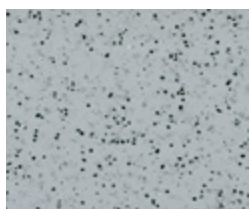
0350 | LIGHT GREY



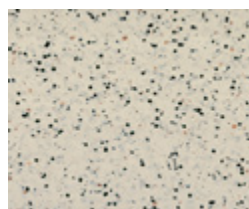
0351 | BLACK



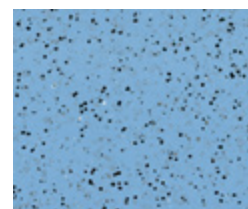
0352 | GREY



0353 | BEIGE



0354 | BLUE

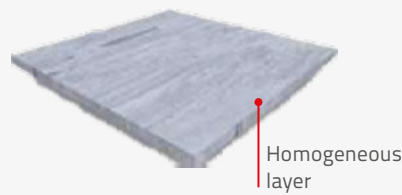


MIPOLAM EL7 - MIPOLAM ROBUST EL7

MIPOLAM EL7



MIPOLAM ROBUST EL7



DESCRIPTION

- MIPOLAM EL7 – flexible dissipative vinyl flooring, available in sheet and tile format, offered in 10 colors.
- EVERCARE™ surface treatment – stain-resistant, chemical-resistant and easy to maintain, no wax required for life.
- Healthcare protection – antiviral effect (99.7% reduction of Human Coronaviruses within 2h) and antibacterial efficiency (99% against E. coli, S. aureus and MRSA).
- ESD performance – permanent dissipative properties ($10^4 \leq Rt \leq 10^8$), grounding with copper strip available.
- Durability – high resistance to residual indentation (≤ 0.02 mm), suitable for heavy traffic areas.
- Safety – fire resistance Bfl-s1.
- Eco-friendly – very low VOC emissions ($< 10 \mu\text{g}/\text{m}^3$ after 28 days, ISO 16000-6).
- MIPOLAM ROBUST EL7 is a dissipative flexible homogeneous vinyl floorcovering available in both sheet and tile. Calendered and compacted.
- It acts as a continuous dissipater $10^6 \leq Rt \leq 10^8$ (EN 1081).

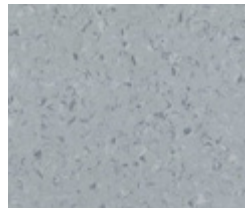
MIPOLAM EL7	GF-MIPOLAM-EL7
MIPOLAM ROBUST EL7	GF-MIPOLAM-ROBUST-EL7

AVAILABLE PATTERNS - MIPOLAM EL7

4101 | QUARTZ



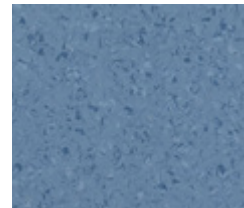
4110 | VIOLET GREY



4111 | RAFFIA



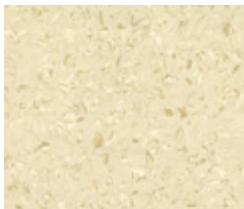
4116 | SAPPHIRE



4120 | SILVER GREY



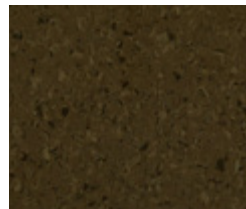
4124 | SMOKED OPAL



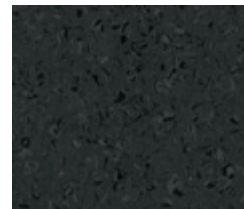
4132 | CITRINE



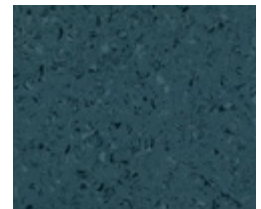
4144 | HAVANA BROWN



4159 | GREY STORM



4166 | THISTLE



AVAILABLE PATTERNS - MIPOLAM ROBUST EL7

0002 | PLATINUM



0003 | IVORY



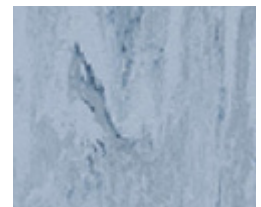
0005 | STEEL



0013 | PEWTER



0112 | STORM



0306 | GREEN



MIPOLAM EL5 - MIPOLAM TECHNIC EL5

MIPOLAM EL5



MIPOLAM TECHNIC EL5



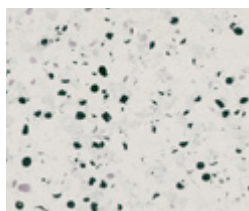
DESCRIPTION

- MIPOLAM EL5 – conductive flexible homogeneous vinyl flooring, available in sheet format.
- Structure – 2 mm homogeneous with carbon granules throughout.
- Conductive backing – guarantees stable conductivity for life.
- Evercare™ surface treatment – UV laser cross-linked polyurethane finish:
 - resists stains from healthcare chemicals (Betadine, eosin, antibacterial hand gels),
 - increases flooring durability,
 - requires no wax for life.
- Healthcare protection – antiviral (99.7% in 2h) and antibacterial (99% in 24h) performance.
- ESD performance – permanent conductivity (10^4 – 10^6), grounding recommended.
- Durability – excellent resistance to residual indentation (≤ 0.02 mm, EN ISO 24343-1), suitable for heavy traffic (EN ISO 10874: 34–43).
- Safety – fire resistance Bfl-s1.
- Eco-friendly – very low TVOC emissions ($< 10 \mu\text{g}/\text{m}^3$ after 28 days, ISO 16000-6).
- MIPOLAM TECHNIC ELS is a conductive flexible homogeneous compacted vinyl floorcovering available in tiles.
- The conductive carbon coated PVC pellets create a perfect conductive network for permanent conductive and antistatic properties throughout its full life expectancy.
- It acts as a continuous conductive $10^4 \leq R_t \leq 10^6$ (EN 1081).

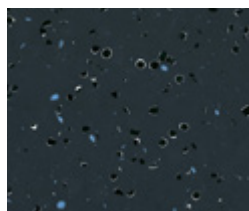
MIPOLAM EL5	GF-MIPOLAM-EL5
MIPOLAM TECHNIC EL5	GF-TECH-EL5

AVAILABLE PATTERNS - MIPOLAM EL5

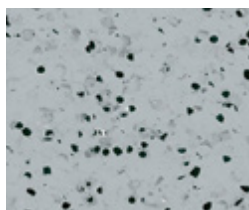
0350 | LIGHT GREY



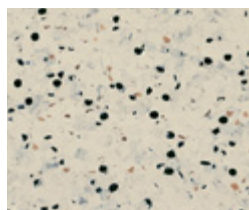
0351 | BLACK



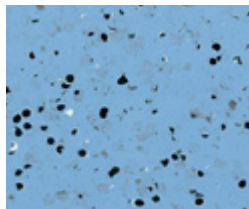
0352 | GREY



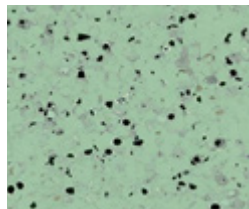
0353 | BEIGE



0354 | BLUE

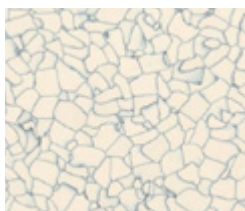


0355 | GREEN



AVAILABLE PATTERNS - MIPOLAM TECHNIC EL5

0635 | WHITE



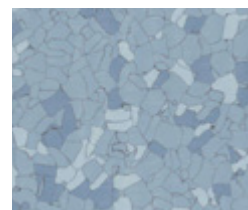
0636 | GREY



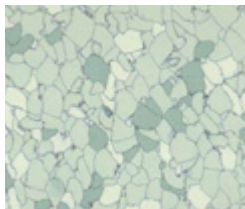
0637 | LIGHT BLUE



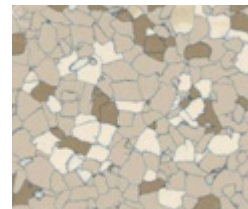
0638 | BLUE



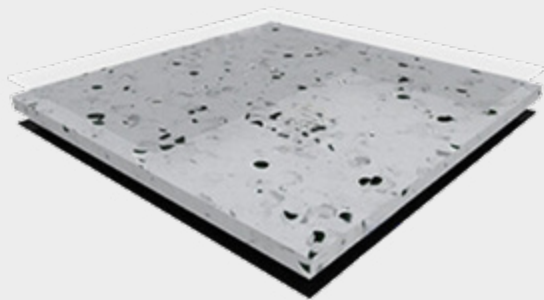
0639 | GREEN



0640 | BEIGE



GERFLOR BIOCONTROL EL5 FOR CLEANROOMS



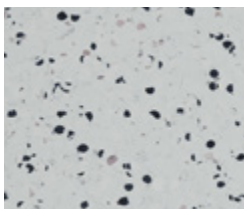
GF-BIOCONTROL-EL5

DESCRIPTION

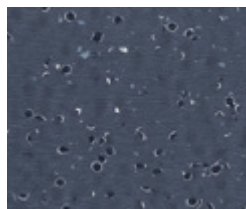
- Flooring for Cleanrooms – for commercial facilities
- Specially designed to help life science manufacturers meet technical cleanroom regulations
- Surface protected with Evercare™ technology
- Non-porous, slip-resistant, wear-resistant, and easy to clean
- Certified for cleanroom use: ISO 4 and GMP Class A
- Resistant to heavy traffic
- Excellent chemical resistance
- Thickness: 2 mm

AVAILABLE PATTERNS - MIPOLAM EL7

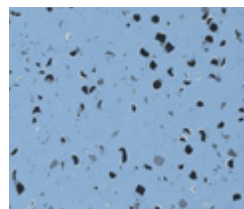
2001 | LIGHT FOG



2002 | VOLCANO



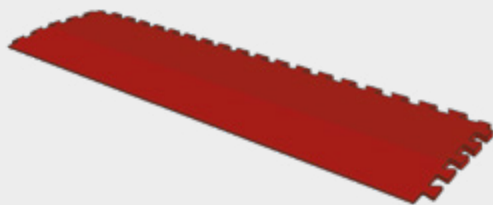
2004 | HORIZON



2006 | MEDIUM FOG



GERFLOR FINISHING PROFILE

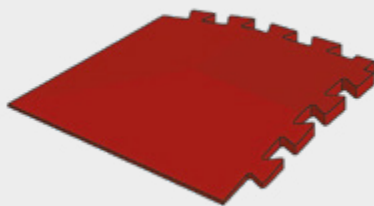


GF-ACCESS

DESCRIPTION

- Provides an aesthetic and durable finish for the ESD tile area
- Protects floor edges and facilitates access with transport equipment, including pallet trucks and forklifts
- Dimensions: 635 x 320 mm

GERFLOR CORNER PROFILE



GF-CORNER

DESCRIPTION

- Protects tile edges and facilitates access to the ESD area
- Available profiles are selected according to the type of traffic – pedestrian, wheeled, or heavy-duty
- Dimensions: 320 x 320 mm

PANASONIC ER-F 12 FAN TYPE IONIZER

PNS-ER-F12
DESCRIPTION

- Compact size of 150x166x62mm and a fan with 120mm diameter, the ER-F belongs to the leading class of compact fan type ionizers
- System employs a high-frequency AC method and boasts a +/-2kV discharge output voltage that discharges electrostatic contaminated objects quickly and safely
- Straight and angle louvers for long distance and wide area applications provided with the ionizer
- Easy maintenance of discharge needle
- Safe design
- No external, compressed air necessary

POWER CONSUMPTION	700mA or less
DISCHARGE METHOD	High-frequency AC method
POWER SUPPLY VOLTAGE	24 V DC +/-10%
MAX. FAN VOLUME	3,68 m ³ /min
MAX. FAN SPEED	5,3 m/s
ION BALANCE	+/- 10 V (or less)
CHARGE REMOVAL TIME	Approx. 1s (1000 V -> 100 V)
MATERIAL	ABS, discharge needle unit: tungsten
WEIGHT	790 g

PANASONIC ER-X SERIES IONIZERS

DESCRIPTION

- Conceived with wide surface areas in mind
- Operation using variable air pressure (from airless to 5 bar air pressure)
- Discharge frequency and ion balance can be set manually or operated in automatic mode
- Six different head sizes, from 50 mm to 640 mm in length
- Ability to connect up to two heads to one controller with areas up to 1.2 m wide that can be handled
- Heads feature an angle adjustment of 360° permitting the best possible charge neutralization
- Easy maintenance

HEADS	ER-X008	ER-X016	ER-X032	ER-X048	ER-X064
TYPE	Wide area ionizer				
EFFECTIVE CHARGE REMOVAL WIDTH	80 mm	160 mm	320 mm	480 mm	640 mm
ION BALANCE	Max. +/- 30 V				
OZONE CONCENTRATION	Max. 0.01ppm				
AIR PRESSURE	Filtered air, max. 5bar				
DISCHARGE METHOD	Pulse AC				

PANASONIC ER-VS02 ULTRA-COMPACT IONIZER



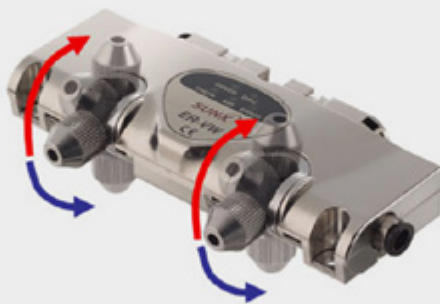
PNS-ER-VS02

DESCRIPTION

- High performance without need for controller
- Produces excellent ion balance
- Nozzle variations can be selected to suit the application
- Ultra compact design fits even into narrow spaces
- Built-in high voltage power supply

SUPPLY VOLTAGE	24 V DC ±10 %
ION BALANCE	Max. +/- 10V
CHARGE ROMOVAL TIME	< 1,0 s
AIR PRESSURE RANGE	0,05 - 0,7 MPa
OZONE GENERATION	Max. 0,03ppm
DISCHARGE METHOD	High frequency AC method

PANASONIC ER-VW THIN TYPE IONIZER



PNS-ER-VW

DESCRIPTION

- Compact and ultra thin design of 18,9 mm thickness
- Angles of the two nozzles can be adjusted within a range of approximately 190°
- ER-VW series can utilize air flow levels starting from a minimum of 15l / min.
- Air supply monitoring function ensures a constat discharging
- Optional joint kit can be used to connect up to a maximum of 5 ER-VW units

SUPPLY VOLTAGE	24 V DC ±10 %
ION BALANCE	< +/- 10 V
CHARGE ROMOVAL TIME	< 1,0 s
AIR PRESSURE RANGE	0,05 - 0,7 MPa
OZONE GENERATION	Max. 0,05ppm
DISCHARGE METHOD	High frequency AC method

PANASONIC ER-Q MINATURE IONIZER

PNS-ER-Q
DESCRIPTION

- Extremely compact design (65 x 60 x 33 mm)
- Fan type, no need for compressed air
- Easy maintenance of needle and air filter
- Mountable in any direction
- Particularly well suited for removing localized electrostatic charge on manufacturing equipment for electronic equipment or in semiconductor processes

POWER SUPPLY VOLTAGE	24 V DC +/- 10%
ION BALANCE	+/-10V or less
CHARGE REMOVAL TIME	Approx. 1.5s (1,000V -> 100V)
POWER CONSUMPTION	200mA or less
DISCHARGE METHOD	High-frequency AC method
MAX. FAN VOLUME	0,2 m ³ /min
MAX. FAN SPEED	6,4 m/s
MATERIAL	PBT, discharge needle unit: tungsten
WEIGHT	110 g

PANASONIC EC-G02 PULSE AIR-GUN IONIZER

PNS-EC-G02
DESCRIPTION

- Easy to use
- Ergonomic design
- Several modes of operation
- Lighting for easy control - 3 lighting modes
- Pulse or continuous blast setting possible
- Easy and quick maintenance
- Lightweight (270 g)
- Operating method: high-frequency AC (alternating current method at high frequency)
- Power consumption – 30 VA or less

POWER SUPPLY VOLTAGE	DC 24V OUTPUT (Voltage: AC 100 - 240 V (+/-10%) / 50 Hz)
CHARGE ROMOVAL TIME	0.5 sec. or less approx. (±1,000V -> ±100V)
SUPPLIED AIR FLOW	300 l/min
AIR PRESSURE RANGE	0,05 - 0,50 MPa
PULSE AIR MODE	Pulse1 (long) / Pulse 2 (short) / CONT (continuous) selectable by switch
LED ILLUMINATION MODE	ON (always ON) / SYNC (synchronized with trigger) / OFF (always OFF)
OPERATING CONDITIONS	0° to +50°C
	35 to 65% RH (No dew condensation)

SMC IZG10 PULSE AIR-GUN IONIZER



SMC-IZG10-0802-01

DESCRIPTION

- The ionizing gun is characterized by high reliability and versatile application possibilities.
- The pulse mode, timer function, and adjustable airflow allow for energy - efficient operation and personalized performance settings.
- The ergonomic handle ensures comfortable use and reduces operator fatigue.
- Built - in LED lighting helps detect fine particles during electrostatic neutralization.
- Clearly visible rear LED indicators show the operating status.
- Adjustable airflow and trigger function provide precise control over output intensity.
- Fast and effective electrostatic neutralization.

SMC BENCHTOP IONIZERS



IZF10



IZF21



IZF31

MODEL	IZF10	IZF21	IZF31
Dimensions (WidthxHeightxLength)	80x110x39mm	104x155x40mm	144x195x40mm

DESCRIPTION

- Compact design
- Alarm system: detected irregularities are indicated via an external output or a two - color LED supporting - 7 types of alarms
- Continuous monitoring of emitter contamination
- Integrated sensor for monitoring offset voltage level
- Airflow capacity: 4,4 m³/min
- PNP control (input/output)
- LED illumination visible from both sides of the device
- Device weight: 430 g (plus 146 g for the mounting bracket)
- 10 - step adjustable airflow
- Ion balance: ±5 V.
- Fast electrostatic neutralization: 0.5 seconds.
- Housing made of stainless steel and ABS plastic

AIRFLOW ADJUSTMENT FUNCTION

- Easy maintenance – since the emitter needles are mounted directly onto the straight or angled outlet grille, replacement and maintenance can be performed without touching the device. When the grille is removed, the high - voltage circuit is interrupted, stopping the fan
- Two interchangeable grilles allow selection between a long and wide ionization area
 - Straight grille enables zonal airflow
 - Angled grille enables spot airflow

TWO-WAY, SEMI-AUTOMATIC TRIPOD TURNSTILES

RE-ACG-001

RE-ACG-002

RE-ACG-003
DESCRIPTION

- When synchronized with an external device, the turnstile unlocks access to the EPA zone by activating the arm mechanism.
- Synchronizing the two-way tripod turnstile with a resistance tester (for wrist straps and/or footwear) ensures effective access control to the EPA zone.
- Provides efficient pedestrian flow control at the entrances to production facilities, administrative buildings, company offices, schools, university campuses, etc.
- Made of stainless steel.

MODEL	RE-ACG-001	RE-ACG-002	RE-ACG-003
DIMENSIONS	420 x 330 x 990 mm	420 x 330 x 1020 mm	1200 x 280 x 990 mm
VOLTAGE	AC230V±10%, 50Hz±10%		
CAPACITY	30 people/min		
COMMUNICATION PORT	RS485 lub TCP/IP		

TRIPOD TURNSTILE DUMMY, STAINLESS STEEL

RE-ACG-004
DESCRIPTION

- Designed for environments that require clear traffic organization and controlled access zones, it's ideal for industrial facilities, public spaces and hygiene-sensitive areas
- The 1.3 mm thick stainless steel construction offers excellent resistance to corrosion, chemicals and mechanical damage
- APPLICATION - Access gate systems are designed for continuous operation in support of passenger traffic control in guarded and supervised areas through the operation of arms which, when synchronised with an external device, unlock or block the entrance to a zone
- They provide effective means of controlling pedestrian flow at entrances to production facilities, administrative buildings, company offices, schools, university campuses, etc.

DIMENSIONS	280 x 1200 x 990 mm
WEIGHT	25 kg
COMPATIBLE	ESD zones and cleanroom environments
INTEGRATION-READY	Can operate independently or as part of an access control system

ONE- WAY SWING GATE



RE-ACG-007

DESCRIPTION

- The one-way turnstile gate is designed to control pedestrian movement in a specified direction
- Made of stainless steel, which ensures durability and resistance to corrosion, making it ideal for various weather conditions
- Symbolism:
 - On one side: Passage symbol indicating that the turnstile is designed to allow entry in one direction
 - On the other side: Stop sign indicating that movement in the opposite direction is prohibited, enhancing safety and control of pedestrian flow
- Advantages:
 - DURABILITY: High-quality stainless steel ensures longevity and resistance to external factors
 - BSAFETY: Clear markings provide straightforward guidance for users, minimizing the risk of misunderstandings and errors
 - AESTHETICS: The modern design complements various architectural styles and environments

DIMENSIONS	280 × 150 × 990 mm
WEIGHT	8,5 kg
NUMBER OF ARMS	1 unit
COMPATIBLE	ESD zones and cleanroom environments

EXEMPLARY CONFIGURATION



DESCRIPTION

- Automatic access control to the EPA zone
- Wrist strap and footwear (grounding) status verification
- Possibility to configure the gates with any testers
- The set includes:

Two-way semi-automatic turnstile	RE-ACG-003
Tripod turnstile dummy, stainless steel	RE-ACG-004
WRISTLAB II wriststrap tester	IT-9264960

i NOTE! The gates are compatible with all testers offered by us. These devices must be ordered separately.

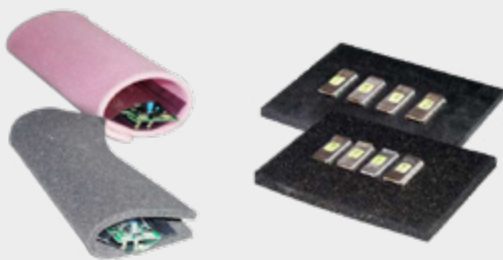
ESD POST TO DESIGNATE AN EPA ZONE



SPECIFICATION

- Yellow post with a height of 925 mm
- Black base with a diameter of 320 mm
- Inscription: ESD Protected Area

CAT. NO.	TYPE	TAPE LENGTH
RE-HM-98006	One warning tape	3050 mm
RE-HM-98006D	Two warning tapes	3050 mm

FOAMS

DESCRIPTION

- Possibility of making individual customer's projects
- Full assortment on the website

CAT. NO.	IT-7804161	IT-7804162	IT-7804168	IT-7804170	IT-7804172	IT-7804174	IT-7806300	IT-7806306
DIMENSIONS	1 x 1,5 m	1 x 1,5 m	1 x 1 m	1 x 1 m	1 x 1 m	1 x 1 m	0,55 x 0,35 m	0,4 x 0,3 m
MATERIAL	Diffuser foam	Diffuser foam	Conductive soft foam	Conductive soft foam	Conductive hard foam	Conductive hard foam	Conductive soft foam	Conductive soft foam
THICKNESS	6 mm	10 mm	6 mm	10 mm	6 mm	10 mm	10 mm	10 mm
COLOUR	Pink	Pink	Black	Black	Black	Black	Black	Black

TUBES

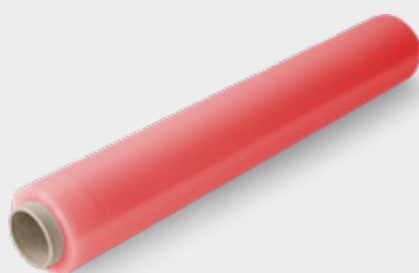
DESCRIPTION

- Wide range of available sleeves:
 - conductive sleeves
 - dissipative sleeves
 - shielding sleeves
- Different widths available
- The sleeves can be tailored to individual customer requirements

BUBBLE FOIL

DESCRIPTION

- Electrostatically dissipative bubble polyethylene film
- Material: non-amino, allows for recycling
- Material structure: two or three layers
- Length: 100 m
- Colour: Pink
- Other dimensions are available upon individual request and according to the client's needs

STRETCH FOIL

DESCRIPTION

- Electrostatically dissipative stretch polyethylene film
- Material: non-amino, allows for recycling
- Material structure: two or three layers
- Length: 100 m
- Colour: Pink
- Other dimensions are available upon individual request and according to the client's needs

ANTI-MOISTURE METALLIZED SEALABLE BAGS (100 PCS)



- Excellent in EMI/RFI protection. Waterproof, protects against grease
- Compatibility with: MIL - B - 81705C class 1 TC1 SBM356
- Sizes from 100 x 660 mm, up to 450 x 660 mm
- Thickness: 80/150 µm
- Unloading: below 2s

METALLIZED SHIELDING BAGS, 3-LAYERS, ZIPPER (100 PCS)



- Surface resistance
 - inner layer (polyethylene): $< 10^{11} \Omega$
 - middle layer (metal): $< 10^2 \Omega$
 - outer layer (polyester): $< 10^{11} \Omega$
- Sizes from 100 x 150 mm up to 300 x 400 mm
- Thickness: 75 µm
- Transparency: 40%

BLACK MULTILAYER CONDUCTIVE BAGS (100 PCS)



DESCRIPTION

- Three - layer conductive bags made of multilayer polyethylene foil
- IEC 61340 - 5 - 1 compliance print with the ESD logo
- Do not use for packaging PCBs containing batteries
- Sizes from 100 x 150 mm, up to 400 x 450 mm
- Thickness: 75 µm
- Resistance: $10^5 \Omega$

ESD DISSIPATIVE BAGS (10 PACKS OF 100 PCS)



DESCRIPTION

- Electrostatically dissipative polyethylene foil
- Bags ensure the safety of products against the harmfulness of static electricity discharges
- Non - amine material for recycling
- Available as ESD ZIP-LOCK bag
- Sizes from 100 x 150 mm, up to 700 x 900 mm
- Typical surface resistance $R_s = 10^9 - 10^{11} \Omega$
- Charge loss time from 1000 V to 100 V < 2 seconds

CONDUCTIVE FIBREBOARD WASTE BIN WITH LID



SPECIFICATION

CAT. NO.	ELEMENT	CAPACITY	DIMENSIONS
RE-BS-25L	Waste basket with lid	25 L	250 x 250 x 400 mm
RE-BS-50L	Waste basket with lid	50 L	300 x 300 x 600 mm
RE-BS-240L	Waste basket with lid	240 L	
RE-BS-25L-P	Lid for waste bin for RE-BS-25L		
RE-BS-50L-P	Lid for waste bin for RE-BS-50L		
RE-BS-120L-P	Lid for waste bin 120L		

MOBILE WASTE BIN 240L WITH LID



RE-BS-J54

DESCRIPTION

- Complete with lid
- Mobile

MATERIAL	Polyethylene
SURFACE RESISTANCE	$< 10^7 \text{ Ohm}$
CAPACITY	240 l
WEIGHT	0,7 kg

NEWBOX CONDUCTIVE CONTAINERS



DESCRIPTION

- Intended for transportation and storage
- Can be easily combined into a stackable system
- High durability against mechanical damage
- Conductive material: polypropylene
- Sizes from 400 x 300 x 120 mm, up to 600 x 400 x 420 mm

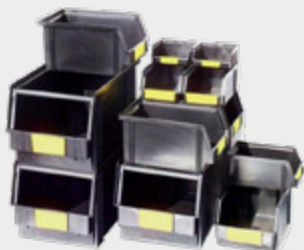
PLATFORM RE-HM-6401



DESCRIPTION

- Platform designed for the transportation of containers
- Restraints to keep objects from sliding
- Dimensions: 600 x 400 mm
- Maximum load 150 kg
- 4 wheels - 2 with stop lock
- Wheel diameter 100 mm

STACKING BINS



DESCRIPTION

- Designed for the transportation and storage of electronic components
- Ideal for all rack types
- Vertical storage possibility
- Ergonomic shape
- Conductive material: polypropylene
- Optional equipment: yellow label for containers of various sizes



**CHECK OUT REECO
MODULAR FURNITURE**

PAGES 183 - 216

i Detailed information about products from this page (parameters, sizes) can be found on our website: sklep.renex.pl

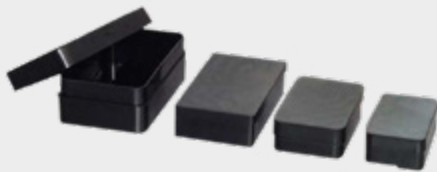
CONTAINERS



DESCRIPTION

- SMD component containers with lids
- Built-in spring automatically closes the lid
- Can be connected via a latch system
- Conductive material: polypropylene
- Optional equipment: galvanized storage rack for containers, recommended for use on assembly tables

BOXES



DESCRIPTION

- Boxes filled with hard foam
- Cover removable or hinged
- Different sizes
- Conductive material: polypropylene

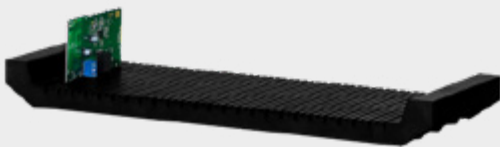
SUITCASES



DESCRIPTION

- Excellent for storing and handling PCBs, components and tools
- Different sizes available
- Conductive material: polypropylene

PCB RACK 6379

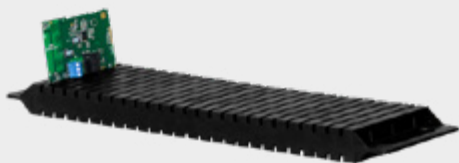


RE-HM-6379

SPECIFICATION

- Made out of conductive polypropylene
- Dimensions: 485 x 178 x 50 mm
- Capacity: 25 PCB/PCBA
- Resistance: $10^4 - 10^6 \Omega$
- Designed for air circulation

PCB RACK 6380



RE-HM-6380

SPECIFICATION

- Made out of conductive polypropylene
- Dimensions: 480 x 140 x 35 mm
- Capacity: 25 PCB/PCBA
- Resistance: $10^4 - 10^6 \Omega$
- Designed for air circulation

PCB RACK 6382-265

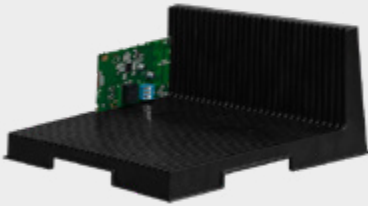


RE-HM-6382-265

DESCRIPTION

- Made out of conductive polypropylene
- Model: L
- Dimensions: 265 x 205 x 92 mm
- Capacity: 25 PCB/PCBA
- Resistance: 10⁴ - 10⁶ Ω

PCB RACK 6382-270 / 6382-355



DESCRIPTION

- Made out of conductive polypropylene
- Model: L
- Capacity: 25 PCB/PCBA (6382-355), 30 PCB/PCBA (6382-270)
- Resistance: 10⁴ - 10⁶ Ω

Capacity for 25 PCB/PCBA

RE-HM-6382-355

Capacity for 30 PCB/PCBA

RE-HM-6382-270

SMD SPOOL RACK



DESCRIPTION

- Made of conductive polypropylene
- Resistance: 10⁴ - 10⁶ Ohm
- Air circulation design

Capacity for 26 reels with a diameter of 180 mm

RE-SSR-001

Capacity for 30 reels with a diameter of 180 mm

RE-SSR-002

Capacity for 33 reels with a diameter of 330 mm

RE-SSR-003

ESD HANGING CART PCB-639312



RE-HM-639312

DESCRIPTION

- Stainless steel trolley
- 4 ESD wheels
- Dimensions of trolley: 500x500x1550mm
- Number of shelves 12
- Dimensions of shelves 410x280x165
- Capacity: 25 PCB/PCBA
- Resistance: 10³ - 10⁹ Ohm
- Air circulation design

COPPER TAPES



- Grounding copper tape, conductive, with high temperature resistance - up to 260oC
- Self-adhesive
- Different sizes available

„ATTENTION“ PACKING TAPES



- Self-adhesive packing tapes with „Attention“ print
- PVC and paper versions available
- Different dimensions available

„ESD PROTECTED AREA” TAPES



- EPA zone protection marking
- Self-adhesive tapes with „ESD Protected Area” print for floor surfaces
- Dimensions: 75 mm x 33 m
- Version with directional zone marking
 - Size: 50 mm x 33 m

„ESD PROTECTED AREA” PLATES



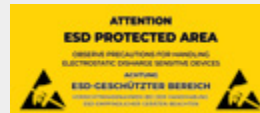
- Warning plate „EPA” or „High Voltage + EPA”
- Option: self-adhesive or stable structure
- Various sizes available

„ATTENTION” LABELS



- Self-adhesive label with ESD symbol „ATTENTION”
- Different sizes available
- 1000 pieces per package

„ESD PROTECTED AREA” SIGN



- Warning sign: ‘ESD Protected Area’
- Featuring a stable structure, available in three versions: Polish, Polish-English, and Polish-German
- Dimensions: 700 x 300 mm

„SUSCEPTIBLE” LABELS



- Self-adhesive label with ESD symbol „SUSCEPTIBLE”
- Different sizes available
- 1000 pieces per package

„PROTECTIVE” LABELS



- Self-adhesive label with ESD symbol „PROTECTIVE”
- Different sizes available
- 1000 pieces per package

ANTISTATIC ESD PEN



RE-007

ESD CLIPBOARD



RE-HM-31221

ESD RING BINDER

RE-HM-78501
DESCRIPTION

- Format: A4
- Resistance: $10^5 - 10^9$ Ohm
- Width: 45 mm
- Colour: black
- Made of polypropylene
- Permanent ESD features
- ESD logo

ESD DIVIDERS

RE-HM-9153044
DESCRIPTION

- Size: A4
- Quantity: 4pcs.
- Material: ESD PP
- Resistance: 10^6-10^9

DOCUMENT SLEEVES

RE-HM-91604
DESCRIPTION

- Format: A4
- Number of perforations: 11
- Color: transparent
- Number of sheets: 100

ANTISTATIC DESK CUVETTES

RE-CON-330
DESCRIPTION

- Documents tray
- Format: A4
- Type: 3 layers can stack
- Colour: black
- Resistance: $10^6 - 10^9$ Ohm
- Dimensions: 330 × 252 × 265 mm

ANTISTATIC TRAY, WALL-MOUNTED



DESCRIPTION

- Colour: transparent
- Resistance: $10^6 - 10^9$ Ohm

CAT. NO.	SIZE (A x B x C x ØD)	FORMAT
RE-CON-165	112 x 42 x 165 x 3,6 mm	A4
RE-CON-167	164 x 42 x 167 x 3,6 mm	A5
RE-CON-251	225 x 42 x 251 x 3,6 mm	A4

ESD MOUSE



SPECIFICATION

- Material: permanently antistatic
- Color: black
- Port: USB
- Resistance: $10^5 - 10^9$ Ohm

ESD wired mouse	RE-HM-91621
ESD wireless mouse	RE-HM-91621W

ESD KEYBOARD



RE-HM-91620

SPECIFICATION

- Material: permanently antistatic
- Black colour
- USB port
- Resistance: $10^5 - 10^9$ Ohm





TRAINING FOR ELECTRONICS

311

RENEX EEC TRAINING CENTER	312
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AUTHORIZED TRAINING CENTER FOR IPC | ESA | PACE

RENEX EEC is an autonomous extension of the RENEX company and at the same time one of the most advanced and active Training Centers for electronic engineers in Central and Eastern Europe.

35 years of experience in the electronics industry enables us to train electronics professionals at the highest level, certified with widely recognized international qualifications.

The RENEX Group has international branches that have obtained the status of licensed IPC Training Centers. Our facilities in Lithuania, Croatia, Serbia, Romania, Bulgaria, and North Macedonia are authorized to conduct certified training in accordance with international IPC and ESA standards.



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can be found on the website at:



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TRAINING CENTER

15

TRAINERS ACROSS EUROPE

>30

SPECIALIZED TRAININGS IN THE OFFER

6

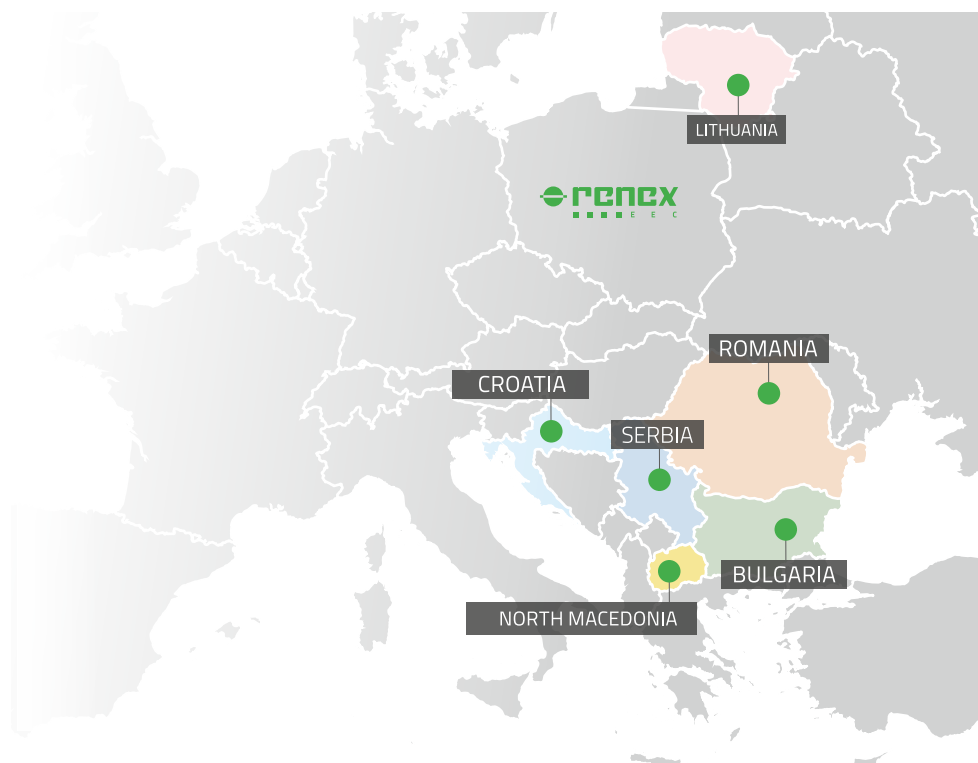
LANGUAGE VERSIONS OF EDUCATIONAL MATERIALS

6

OFFICIAL TRAINING DEPARTMENTS

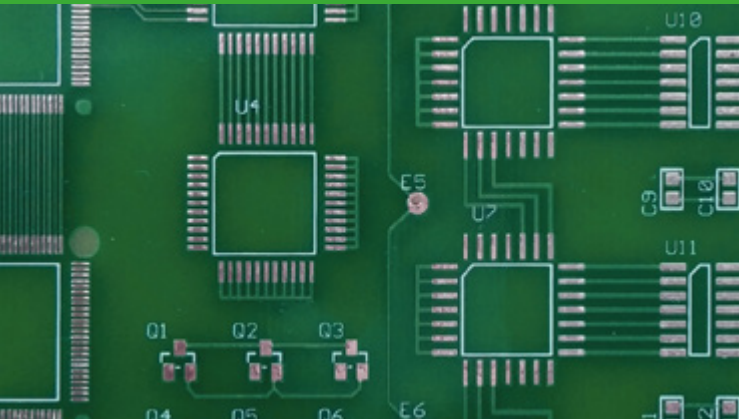
35 000

OVER 35 THOUSAND TRAINED SPECIALISTS





IPC-A-610 CIS TRAINING



TRAINING ADVANTAGES

- Will gain the latest knowledge on the existing international standards of printed circuit assembly made in through hole and surface mount technology
- Will acquire the ability to control quality performance of electronic packages
- Receive handbook with educational materials and gain personal, international certificate of IPC-A-610 Certified IPC Specialist
- Each participant will also receive a personalized certificate issued by the Ministry of National Education (MEN)

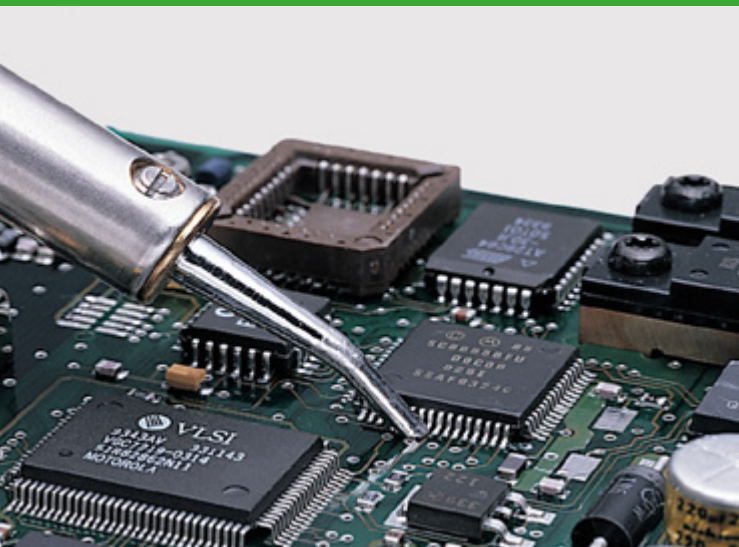


TRAINING PROGRAM

- Session I – Introduction, IPC Policy and Procedures, Introduction to the Document and General Information from IPC-A-610, Applicable Documents, Electrostatic Discharge – Principles of Safe Handling and Use of Electronic Instruments and Components
- Session II – Soldering and High-Voltage Applications
- Session III – Component Damage and Criteria for Printed Circuit Boards and Electronic Assemblies (e.g. laminate quality, coating, solder mask, marking, post-assembly cleanliness)

- Session IV – Terminal Connections
- Session V – Through-Hole Technology; Jumper Wires
- Session VI – Surface-Mount Technology Assemblies; Interconnecting Wires
- Session VII – Hardware
- Session I is mandatory.

IPC-7711/7721 CIS TRAINING



TRAINING ADVANTAGES

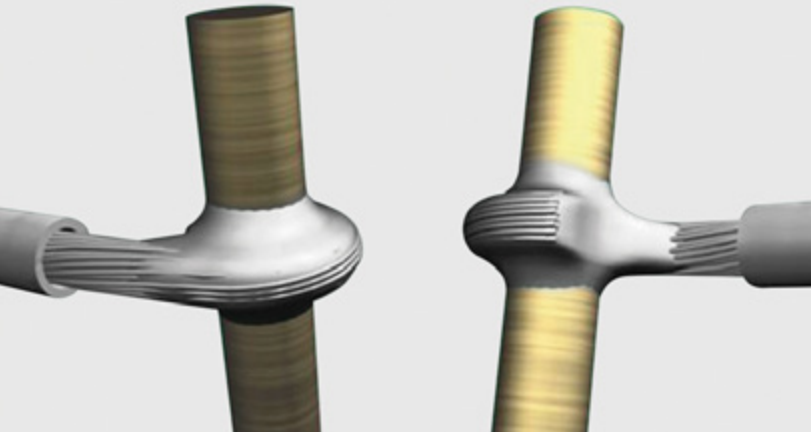
- Participants will acquire up-to-date knowledge and gain practical skills in the repair and modification of electronic assemblies and printed circuit boards manufactured using surface-mount and through-hole technologies, in accordance with applicable international standards.
- Receive handbook with educational materials
- Gain personal, international certificate of IPC-7711/7721 Certified IPC Specialist
- Each participant will also receive a personalized certificate issued by the Ministry of National Education (MEN)



TRAINING PROGRAM

- Session I – Introduction, IPC Policy and Procedures, Commonly Used Procedures
- Session II – Wire Splicing Techniques
- Session III – Conformal Coatings: Identification, Removal, and Repair
- Session IV – Removal/Installation of Through-Hole Components
- Session V – Removal/Installation of Chip & MELF Components
- Session VI – Removal/Installation of SOT and SOIC Components

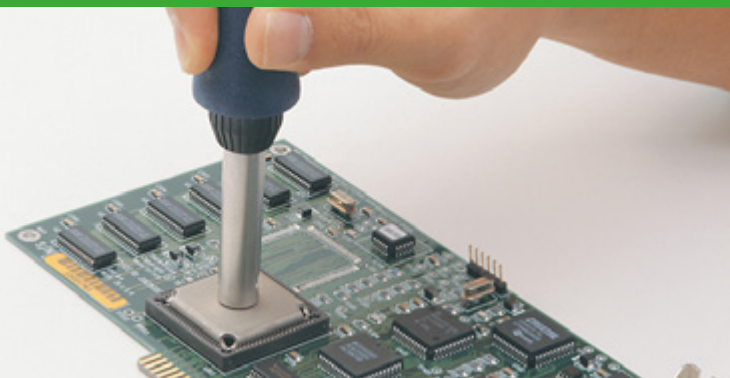
- Session VII – Removal/Installation of J-Lead and QFP Components
- Session VIII – Removal/Installation and Reballing of BGA Components
- Session IX – Laminate Repair
- Session X – Printed Circuit Board Repair: Pad, Via, and Plated Hole Repair; Trace Repair; Jumper Wire Installation
- Session I is mandatory.


IPC/WHMA-A-620 CIS TRAINING

TRAINING ADVANTAGES

- Will gain the latest knowledge about requirements on cables and wires assembly according to current international standards
- Possibility to carry out the practical part in the field of wire harness assembly.
- Receive handbook with educational materials
- Gain personal, international certificate of IPC/WHMA-A-620 Certified IPC Specialist
- Each participant will also receive a personalized certificate issued by the Ministry of National Education (MEN)


TRAINING PROGRAM

- Session I – Introduction, IPC Policy and Procedures, Overview and General Information from IPC/WHMA-A-620, Applicable Documents, Wire Preparation, Cable and Wire Harness Measurements, Electrical and Mechanical Testing
- Session II – Crimp Terminations and Insulation Displacement Connections (IDC)
- Session III – Soldered Terminations and High Voltage Application
- Session IV – Connectorization and Over – Molding/Potting
- Session V – Ultrasonic Welding and Splices
- Session VI – Marking/Labeling, Securing and Finished Assembly Installation
- Session VII – Coaxial and Biaxial Cable Assemblies
- Session VIII – Cable/Harness Electrical Shielding and Cable/Wire Harness Protective Coverings
- Practical Session – Focused on wire harness assembly
- Session I is mandatory.

IPC-A-600 CIS TRAINING

TRAINING ADVANTAGES

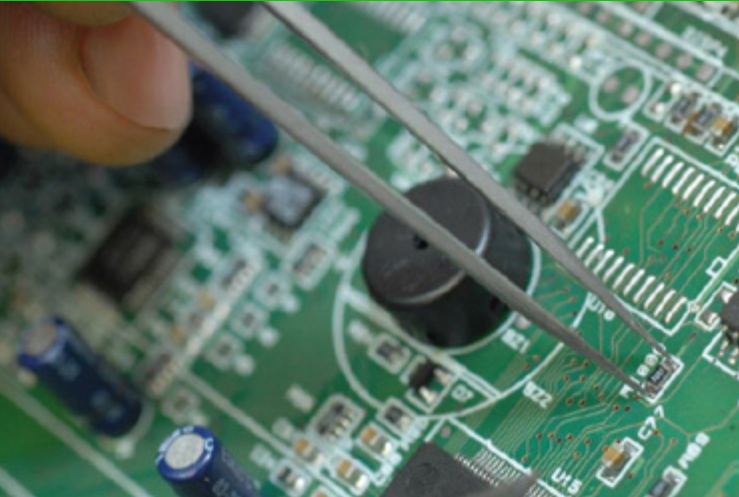
- Will gain knowledge about acceptability criteria of printed circuit boards
- Will acquire the ability to control quality of printed circuit boards
- Receive handbook with educational materials and gain personal, international certificate of IPC-A-600 Certified IPC Specialist
- Each participant will also receive a personalized certificate issued by the Ministry of National Education (MEN)


TRAINING PROGRAM

- Session I – Introduction, IPC Policy and Procedures, Overview and General Information from IPC-A-600, Applicable Documents, Cleanliness and Solderability Testing, Electrical Integrity
- Session II – Externally Observable Characteristics – including, among others:
 - board edges
 - base laminate material
 - conductor layer imperfections
 - plated and non-plated hole characteristics
 - marking anomalies
 - solder mask coating imperfections
 - dimensional characteristics of holes and conductor layers
- Session III – Internally Observable Characteristics – including, among others:
 - subsurface imperfections in the board material and multilayer printed boards
 - anomalies in plated holes
 - criteria for internal conductors
- Session IV – Special Types of Printed Boards – including, among others:
 - flexible and rigid-flex printed circuit boards
 - special types of metal-core printed boards
 - single-plane types of printed boards
- Session I is mandatory.



IPC-J-STD-001 CIS TRAINING



TRAINING ADVANTAGES

- Participants will gain knowledge and practical skills related to the assembly criteria for printed circuit boards manufactured using surface mount and through-hole technologies, as well as wires and cables, in accordance with applicable international standards.
- Receive handbook with educational materials
- Gain personal, international certificate of IPC-J-STD-001 Certified IPC Specialist
- Each participant will also receive a personalized certificate issued by the Ministry of National Education (MEN)

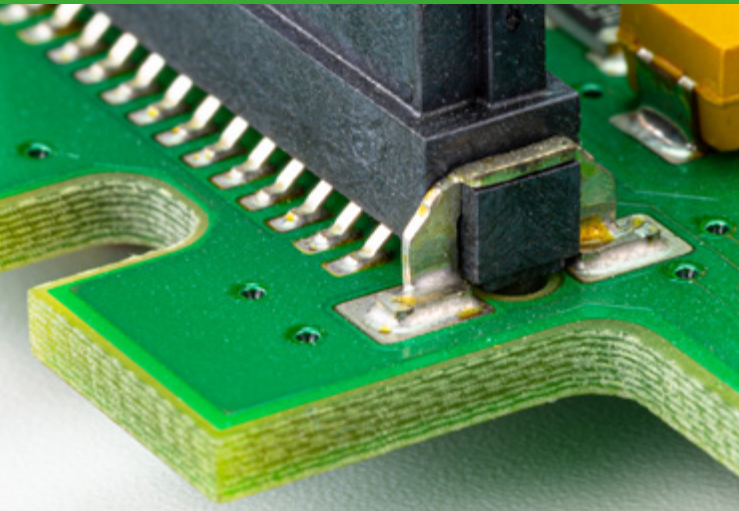


TRAINING PROGRAM

- Session I – Theoretical Classes
 - Introduction, IPC Policy and Procedures, Overview and General Information from IPC-J-STD-001, Applicable Documents
 - Requirements for Materials, Components, and Equipment
 - General Requirements for Soldering and Assembly
 - Process Requirements for Cleaning of Electronic Assemblies and Cleaning Residues
 - Rework and Repair
- Session II – Theoretical and Practical Classes
 - Soldering Wires to Various Types of Terminals
- Session III – Theoretical Classes
 - Requirements for Printed Circuit Boards and Electronic Assemblies

- Coating, Sealing Materials, Bonding
- Torque Witness Marking
- Session IV – Theoretical and Practical Classes
 - Assembly of Through-Hole Components + Jumper Wires
- Session V – Theoretical and Practical Classes
 - Assembly of Surface Mount Components + Jumper Wires
- Session VI – Theoretical and Practical Classes
 - Inspection Methodologies – Requirements for Through-Hole, Surface Mount, and Wire/Cable Assemblies
- Session I is mandatory.

IPC-6012 CIS TRAINING



TRAINING ADVANTAGES

- Participants will gain knowledge of the acceptance criteria for rigid printed circuit boards in accordance with applicable international standards
- Each participant will receive a student handbook
- Participants will be awarded a personalized, international IPC-6012 Certified IPC Specialist certificate
- Each participant will also receive a personalized certificate issued by the Ministry of National Education (MEN)

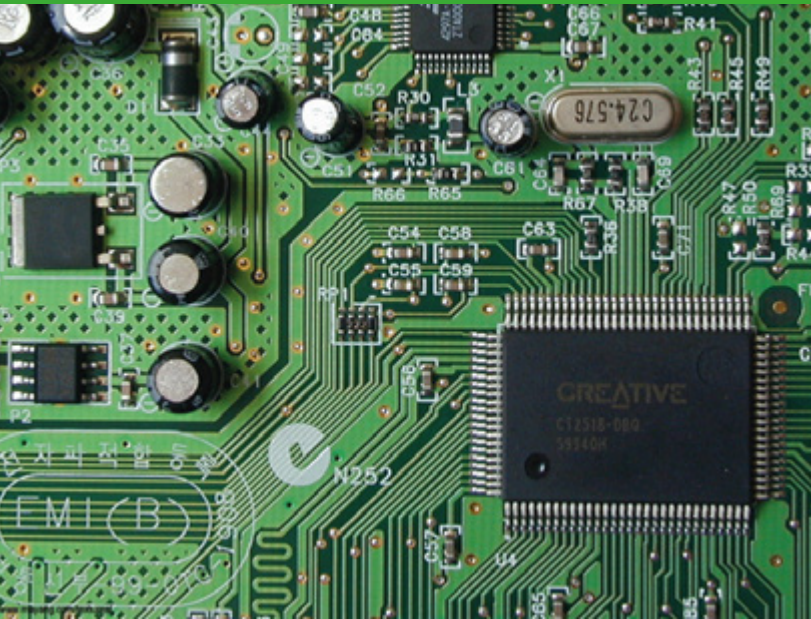


TRAINING PROGRAM

- Session I – Introduction, General Requirements, and Applicable Documents
- Session II – Material Requirements
- Session III – Visual Inspection Criteria
- Session IV – Conductor Dimensional Requirements
- Session V – Structural Integrity Requirements
- Session VI – Solder Mask, Electrical and Cleanliness Testing
- Session VII – Special Requirements for Printed Boards
- Session IX – Quality Assurance Provisions



IPC-A-610 CIT TRAINING



TRAINING ADVANTAGES

- Will gain the latest knowledge on the existing international standards of printed circuit assembly made in through hole and surface mount technology
- Will acquire the ability to control quality performance of electronic package
- Will be eligible to train Certified IPC Specialists for their own companies needs
- Each participant will also receive a personalized certificate issued by the Ministry of National Education (MEN)
- Will receive:
 - access, through the IPC database, to the IPC-A-610 CIT KIT training package for instructing future Certified IPC Specialists in the IPC-A-610 standard.
 - personal certificate of Certified IPC Trainer
 - set of examination tests

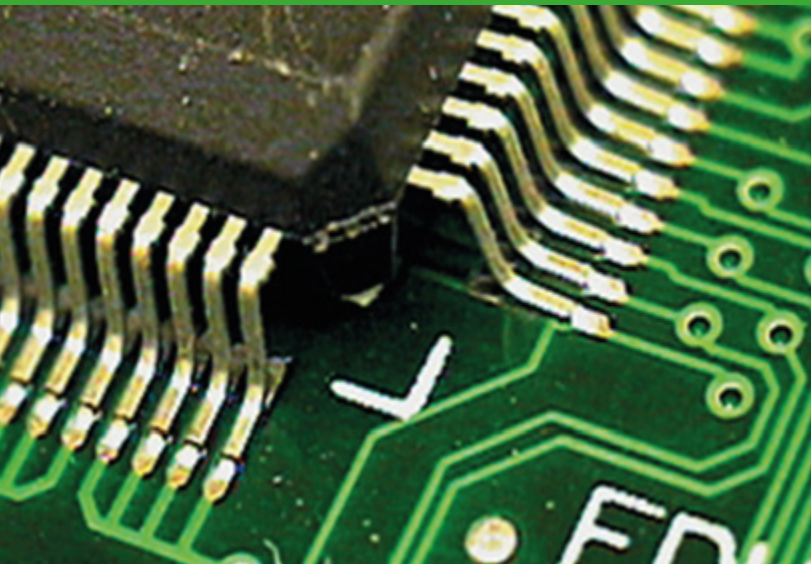


TRAINING PROGRAM

- Session I – Introduction, IPC Policy and Procedures, Overview and General Information from IPC-A-610, Applicable Documents, Electrostatic Discharge – Principles of Safe Handling and Use of Electronic Devices and Components
- Session II – Soldering and High Voltage Applications
- Session III – Component Damage and Criteria for Printed Circuit Boards and Electronic Assemblies (including laminate quality, coating, solder mask, marking, and post-assembly cleanliness)

- Session IV – Terminal Connections
- Session V – Assemblies Using Through-Hole Technology; Jumper Wires
- Session VI – Assemblies Using Surface Mount Technology; Jumper Wires
- Session VII – Hardware

IPC-7711-21 CIT TRAINING



TRAINING ADVANTAGES

- Participants will acquire up-to-date knowledge and gain practical skills in the repair and modification of electronic assemblies and printed circuit boards manufactured using surface mount and through-hole technologies, in accordance with applicable international standards.
- Will be eligible to train Certified IPC Specialists for their own companies needs
- Each participant will also receive a personalized certificate issued by the Ministry of National Education (MEN)
- Will receive:
 - Access, through the IPC database, to the IPC-7711/7721 CIT KIT training package for instructing future Certified IPC Specialists in the IPC-7711/7721 standard
 - personal certificate of Certified IPC Trainer



TRAINING PROGRAM

- Session I – Introduction, IPC Policy and Procedures, Commonly Used Procedures
- Session II – Wire Splicing Techniques
- Session III – Coating Layers: Identification, Removal, Repair
- Session IV – Removal/Installation of Through-Hole Components
- Session V – Removal/Installation of Chip & MELF Components

- Session VI – Removal/Installation of SOT and SOIC Components
- Session VII – Removal/Installation of J-Lead and QFP Components
- Session VIII – Removal/Installation and Reballing of BGA Components
- Session IX – Laminate Repair
- Session X – Printed Circuit Board Repair: Repair of Pads, Vias and Plated Holes, Traces, and Jumper Wire Installation



IPC/WHMA-A-620 CIT TRAINING



TRAINING ADVANTAGES

- Will gain the latest knowledge about requirements on cables and wires assembly according to current international standards
- Will be eligible to train Certified IPC Specialists for their own companies needs
- Receive handbook with educational materials
- Will acquire the ability to control quality of cable and wire harnesses assembly
- Possibility to carry out the practical part focused on wire harness assembly
- Each participant will also receive a personalized certificate issued by the Ministry of National Education (MEN)
- Participants will receive access, through the IPC database, to the IPC/WHMA-A-620 CIT KIT training package for instructing future Certified IPC Specialists in the IPC/WHMA-A-620 standard

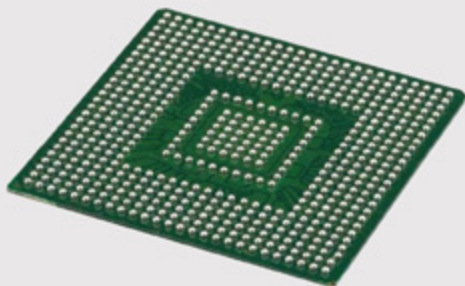


TRAINING PROGRAM

- Session I – Introduction, IPC Policy and Procedures, Overview and General Information from IPC/WHMA-A-620, Applicable Documents, Wire Preparation, Cable and Wire Harness Measurements, Electrical and Mechanical Testing
- Session II – Crimp Terminations and Insulation Displacement Connections (IDC)
- Session III – Soldered Terminations and High Voltage Application
- Session IV – Connectorization and Over – Molding/Potting

- Session V – Ultrasonic Welding and Splices
- Session VI – Marking/Labeling, Securing and Finished Assembly Installation
- Session VII – Coaxial and Biaxial Cable Assemblies
- Session VIII – Cable/Harness Electrical Shielding and Cable/Wire Harness Protective Coverings
- Optional Practical Session – Focused on wire harness assembly

IPC-A-600 CIT TRAINING



TRAINING ADVANTAGES

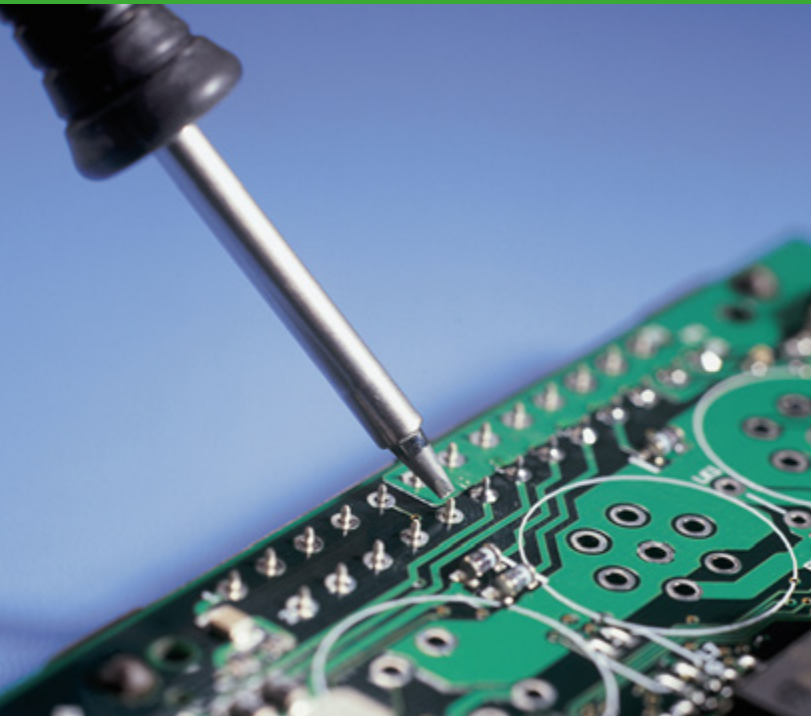
- Will gain knowledge about acceptability criteria of printed circuit boards
- Will be eligible to train Certified IPC Specialists for their own companies needs
- Will acquire the ability to control quality of printed circuit boards
- Each participant will also receive a personalized certificate issued by the Ministry of National Education (MEN)
- Participants receive:
 - Access, through the IPC database, to the IPC-A-600 CIT KIT training package for instructing future Certified IPC Specialists in the IPC-A-600 standard



TRAINING PROGRAM

- Session I – Introduction, IPC Policy and Procedures, Overview and General Information from IPC-A-600, Applicable Documents, Cleanliness and Solderability Testing, Electrical Integrity
- Session II – Externally Observable Characteristics – including, among others:
 - board edges
 - base laminate material
 - conductor layer imperfections
 - characteristics of plated and non-plated holes
 - marking anomalies
 - imperfections in the solder mask protective layer
 - dimensional characteristics of holes and conductor layers

- Session III – Internally Observable Characteristics – including, among others:
 - subsurface imperfections in the board material and multilayer printed boards
 - anomalies in plated holes
 - criteria for internal conductors
- Session IV – Special Types of Printed Boards – including, among others:
 - flexible and rigid-flex printed circuit boards
 - special types of metal-core printed boards
 - single-plane types of printed boards

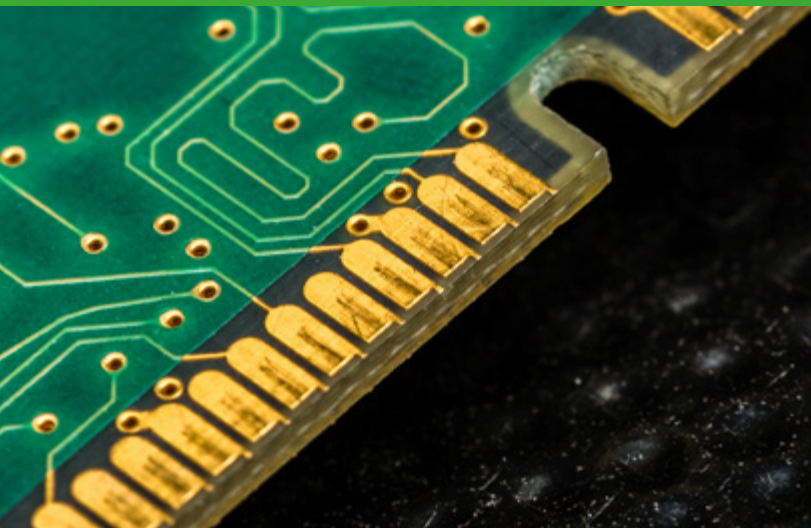

IPC-J-STD-001 CIT TRAINING

TRAINING ADVANTAGES

- Participants will acquire knowledge and practical skills in the assembly of through-hole and surface mount components, as well as wires and cables, in accordance with applicable international standards.
- Receive handbook with educational materials
- Will acquire the ability to control quality of electronic packets and connections made with use of wires and cables
- Will be eligible to train Certified IPC Specialists for their own companies needs
- Each participant will also receive a personalized certificate issued by the Ministry of National Education (MEN)
- Will receive:
 - IPC-J-STD-001, IPC-J-STD-001 CIT Student Handbook
 - Access, through the IPC database, to the IPC-A-600 CIT KIT training package for instructing future Certified IPC Specialists in the IPC-J-STD-001 standard
 - Personal certificate of Certified IPC Trainer


TRAINING PROGRAM

- Introduction - Facility Policies and Procedure, Course Overview, Exam Information
- Module I – General, Applicable Documents, Materials, Components and Equipment Requirements, General Soldering and Assembly Requirements, Cleaning and Residue Requirements, Rework and Repair,
- Module II – Wires and Terminal Connections – theory and practice

- Module III – Printed Board Requirements, Coating, Encapsulation and Staking, Witness Stripe,
- Module IV -Through Hole Technology and Jumper Wires – theory and practice
- Module V -Surface Mount Soldering and Jumper Wires – theory and practice
- Module V – Inspection

IPC-6012 CIT TRAINING

TRAINING ADVANTAGES

- Participants will gain knowledge of the acceptance criteria for rigid printed circuit boards in accordance with applicable international standards.
- Each participant will receive a student handbook.
- Participants will be awarded a personalized, international IPC-6012 Certified IPC Trainer certificate.
- Each participant will also receive a personalized certificate issued by the Ministry of National Education (MEN).
- Through the IPC database, participants will receive access to the training materials package for instructing future Certified IPC Specialists in the IPC-J-STD-001 standard.

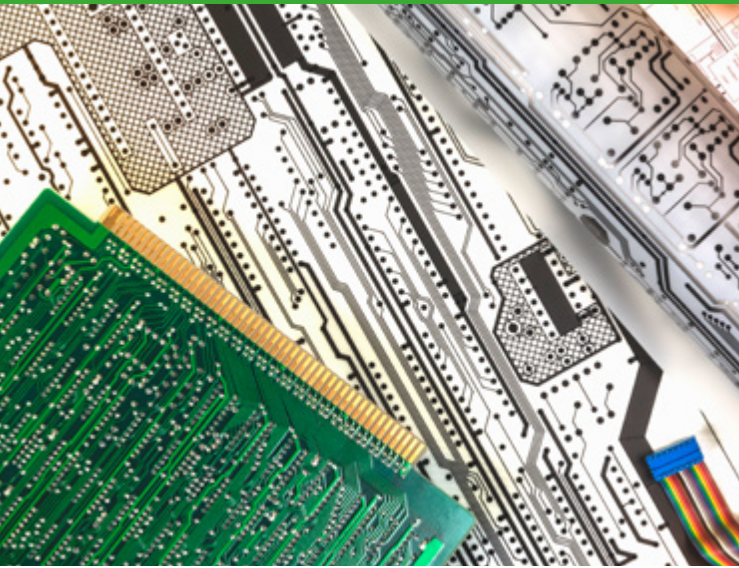

TRAINING PROGRAM

- Session I – Introduction, General Requirements, and Applicable Documents
- Session II – Material Requirements
- Session III – Visual Inspection Criteria
- Session IV – Conductor Dimensional Requirements

- Session V – Structural Integrity Requirements
- Session VI – Solder Mask, Electrical and Cleanliness Testing
- Session VII – Special Requirements for Printed Boards
- Session IX – Quality Assurance Provisions



CID TRAINING



TRAINING ADVANTAGES

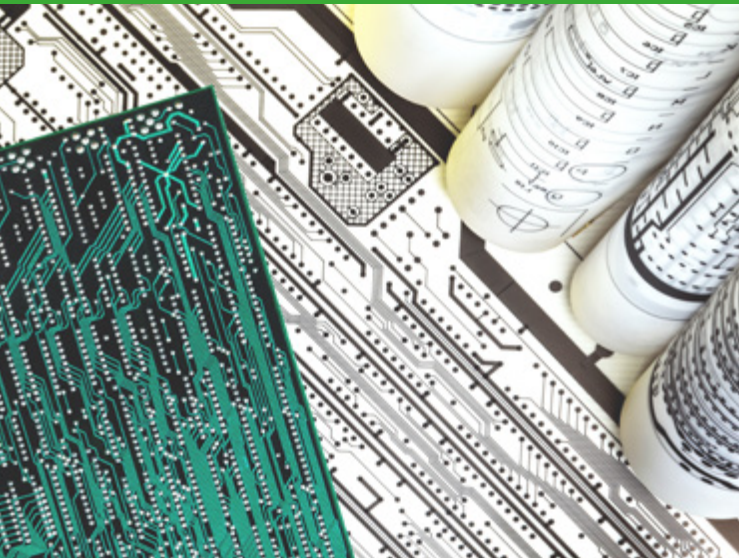
- Courses enhance and assess knowledge: how to transform an electrical circuit description into a PCB design that can be manufactured, assembled and tested
- Certification Materials
- Three full days of classroom instruction led by an IPC-qualified instructor
- Each participant will also receive a personalized certificate issued by the Ministry of National Education (MEN)
- CID course materials:
 - IPC-2221, Standard on Printed Board Design
 - IPC-2222, Sectional Standard on Rigid Organic Printed Boards
 - IPC-DRM-18, Desktop Reference Manual for Components
 - CID Study Guide, provides of framework for application of IPC standards in design decision-making



TRAINING PROGRAM

- Design considerations
- Thermal, Reliability, and Testing Issues
- Physical Board Principles
- Component Types
- Component & Assembly Issues
- Board Surface Treatments
- Documentation and Dimensioning
- Schematic and Logic Diagrams
- Fabrication and Tolerancing Requirements
- Assembly Documentation and BOMs
- Certification Testing

CID+ TRAINING



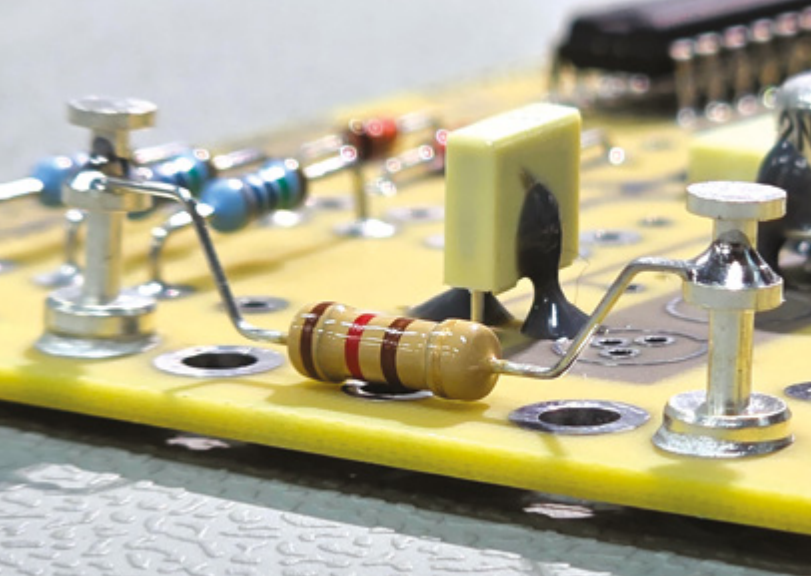
TRAINING ADVANTAGES

- The training expands and helps assess knowledge in transforming an electrical circuit description into a PCB design, which can then be manufactured, assembled, and tested
- Certification Materials
- Three full days of classroom instruction led by an IPC-qualified instructor
- Each participant will also receive a personalized certificate issued by the Ministry of National Education (MEN)
- CID course materials:
 - CIDADV16 – STUDYGUIDE – CID Advanced 2016 Study Guide
 - IPC-2221 – Generic Standard on Printed Board Design
 - IPC-2222 – Sectional Design Standard for Rigid Organic Printed Boards



TRAINING PROGRAM

- Design Considerations
- PCB Characteristics
- Electrical Parameters
- Component and Assembly Issues
- Dimensioning and Documentation
- Questions and Answers
- Certification Test – Test Workbook (164 questions)


ECSS-Q-ST-70-08 TRAINING

TRAINING ADVANTAGES

- Trainees will acquire knowledge and practical skills related to cable assembly using various types of terminals, as well as the assembly of through-hole components, in accordance with the guidelines outlined in ESA standards.
- Participants will receive a student handbook.
- Trainees will be awarded a personalized training completion certificate for ECSS-Q-ST-70-08 at the operator, inspector or instructor level.
- Participants will also receive a personalized certificate issued by the Ministry of National Education (MEN).


TRAINING PROGRAM

- Introduction, overview of ESA specification structures
- Overview of the ECSS-Q-ST-70-08 standard
- Preparatory conditions, material selection, preparation for soldering
- Factors affecting the quality, reliability, and performance of solder joints
- Manual assembly methods required to produce reliable connections

- Hand soldering of wires to various solder terminals and cables
- Soldering of through-hole components to PCBs
- Cleaning of assemblies, final inspection and verification, quality assurance
- Inspection of independently performed practical tasks

ECSS-Q-ST-70-26 TRAINING

TRAINING ADVANTAGES

- Trainees will acquire knowledge and practical skills related to wire crimping processes in accordance with the guidelines outlined in ESA standards.
- Participants will receive a student handbook.
- Trainees will be awarded a personalized training completion certificate for ECSS-Q-ST-70-26 at the operator, inspector or instructor level.
- Participants will also receive a personalized certificate issued by the Ministry of National Education (MEN).


TRAINING PROGRAM

- Introduction, overview of ESA specification structures
- Theory and methods of non-soldered connections
- Advantages and disadvantages of crimping techniques compared to soldering
- Crimping templates
- Selection and preparation of wires and terminals

- Connecting samples for tensile testing
- Dispersive crimp, analysis of results
- Compactive crimp, analysis of results
- Inspection

ECSS-Q-ST-70-28 TRAINING



TRAINING ADVANTAGES

- Trainees will acquire knowledge and practical skills related to the repair and modification of electronic equipment and PCBs used in space applications, in accordance with the guidelines outlined in ESA standards
- Participants will receive a student handbook
- Trainees will be awarded a personalized training completion certificate for ECSS-Q-ST-70-28 at the operator, inspector or instructor level.
- Participants will also receive a personalized certificate issued by the Ministry of National Education (MEN)

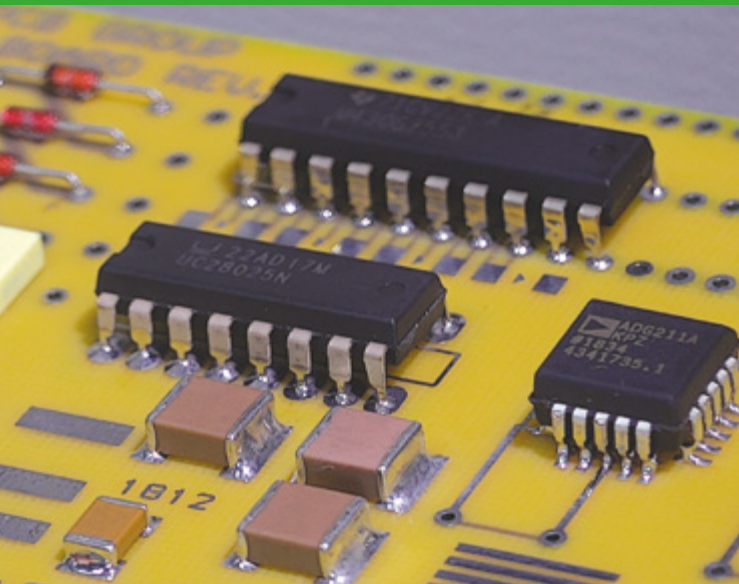


TRAINING PROGRAM

- Introduction, overview of ESA specification structures
- Overview of the ECSS-Q-ST-70-28 standard
- Repairs
- Modifications
- Reworks
- Conformal coating removal

- Practical exercises in:
 - Conformal coating removal
 - Desoldering of soldered joints
 - Removal and replacement of axial and multi-leaded components
 - Removal and replacement of flat pack components
 - Repair of damaged conductive tracks
 - Repair of damaged conductors and solder pads
 - Wire-to-wire connections and component additions

ECSS-Q-ST-70-38 TRAINING



TRAINING ADVANTAGES

- Trainees will acquire knowledge and practical skills related to surface-mounted components in accordance with the guidelines outlined in ESA standards
- Participants will receive a student handbook
- Trainees will be awarded a personalized training completion certificate for ECSS-Q-ST-70-38 at the operator, inspector or instructor level.
- Participants will also receive a personalized certificate issued by the Ministry of National Education (MEN)



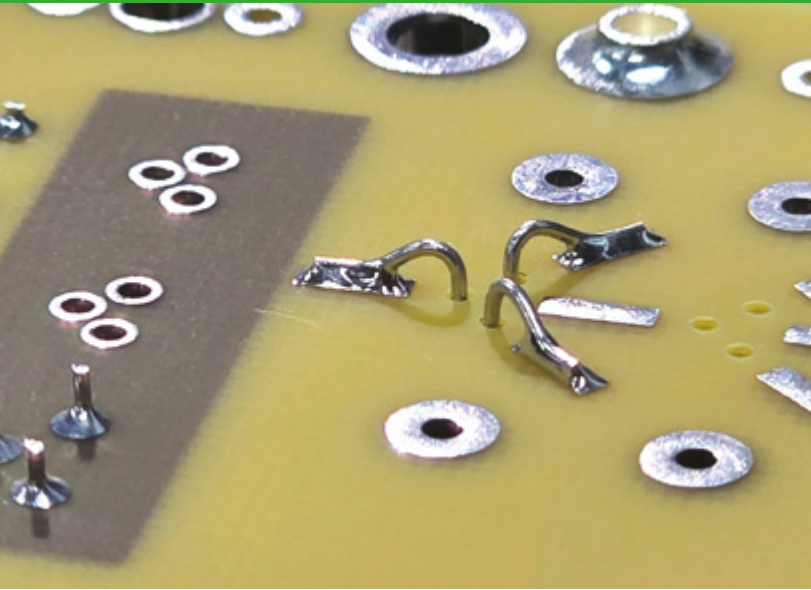
TRAINING PROGRAM

- Introduction, overview of ESA specification structures
- Overview of the ECSS-Q-ST-70-38 standard
- Positioning criteria for surface-mounted components

- Selection of materials and equipment
- Manual soldering of surface-mounted components
- Inspection of independently performed practical tasks



ECSS-Q-ST-70-61 TRAINING



TRAINING ADVANTAGES

- Trainees will acquire knowledge and practical skills related to through-hole components, surface-mounted components, and wires with various types of terminals, in accordance with the guidelines outlined in ESA standards
- Participants will receive a student handbook
- Trainees will be awarded a personalized training completion certificate for ECSS-Q-ST-70-61 at the operator, inspector or instructor level.
- Participants will also receive a personalized certificate issued by the Ministry of National Education (MEN)



TRAINING PROGRAM

- Introduction, overview of ESA specification structures
- Overview of the ECSS-Q-ST-70-61 standard
- Terms and definitions
- Principles of reliable soldered connections
- Preparatory conditions including, among others: room cleanliness, environmental conditions, lighting requirements, EPA zones, equipment and tools
- Material selection
- Preparation before assembly and soldering
- Pre-soldering assembly requirements, including:
 - Assembly of through-hole components
 - Assembly of surface-mounted components
- Assembly of wires to terminations, solder cups, and cables
- Assembly to terminations and PCBs
- Post-soldering requirements
- Final inspection, verification procedures, and quality assurance



**AUTHORISED ESA TRAINING
CENTER IN POLAND**





RTC-01 TRAINING



STATIC ELECTRICITY
- FOR OPERATORS

TRAINING ADVANTAGES

- Participants will acquire knowledge of the requirements related to electrostatic discharge (ESD) protection in EPA (Electrostatic Protected Areas) when working with ESD-sensitive electronic components.
- Will gain personal, international certificate of IPC

TRAINING PROGRAM

- Theory of electrification mechanisms
- Basic knowledge about electrostatic discharges
- Procedures with electronics components and modules
- ESD Protection Measures
- Identification of ESDS in equipment (devices sensitive to electrostatic discharges)
- Scope of protection ESDS sensitivity

- Use of new technologies, antistatic processes and equipment, creation of EPA zones
- Inconsistency with safety requirements
- Protection measures against high voltage
- Clean Room - properties, applications, construction
- Exam

RTC-01K TRAINING



STATIC ELECTRICITY
- FOR COORDINATORS

TRAINING ADVANTAGES

- Participants will acquire knowledge of the requirements related to electrostatic discharge (ESD) protection and the establishment of EPA, essential for the role of an ESD Coordinator
- Will acquire knowledge on how to perform audits in EPA zones and edit reports
- Will receive a didactic handbook
- Will gain personalized certificate of course completion.

TRAINING PROGRAM

- Basic information on electrostatic discharges (ESD) and electrical over-stress (EOS)
- Theory of electrification mechanisms
- Components sensitive to electrostatic discharge (ESDS)
- Protection measures against electrostatic discharges
- Requirements for creation and use of zones protected against electrostatic discharges
- High voltage in EPA zone
- Clean Room - properties, applications, construction

- Responsibility of employees for use of protection measures
- Role of ESD Coordinator
- Training of personnel
- Instructional and teaching material of IPC
- Discussion on requirements for conducting audits of EPA zones
- Creations of reports in accordance with international recommendations
- Making measurements and editing reports
- Theoretical and practical exam

RTC-02 TRAINING



MANUAL SOLDERING IN
THROUGH HOLE
TECHNOLOGY - THT

TRAINING ADVANTAGES

- Will acquire up-to-date knowledge and gain practical skills in the assembly of electronic assemblies manufactured using through-hole technology, in accordance with applicable international standards
- Will receive a handbook with didactic materials
- Will obtain personal certificate of training completion

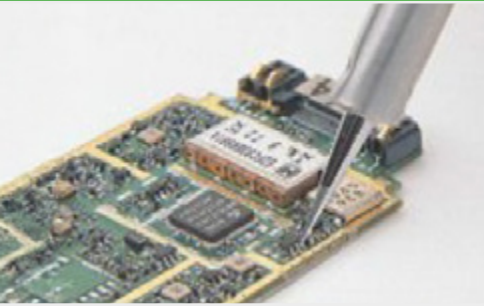
TRAINING PROGRAM

- Health and Safety at the workplace
- Protections against ESD
- Handling of soldering stations
- Basics of soldering
- Role and properties of solder and fluxes

- Types and construction of printed circuit boards
- Identification of components in through hole technology
- IPC-A-610 standard in assembly of through hole components
- Practical classes
- Theoretical and practical exam



RTC-03 TRAINING



MANUAL SOLDERING IN SURFACE MOUNT TECHNOLOGY - SMT

TRAINING ADVANTAGES

- Will acquire up-to-date knowledge and gain practical skills in the assembly of electronic assemblies manufactured using surface mount technology, in accordance with applicable international standards
- Will receive a handbook with didactic materials
- Will obtain personal certificate of training completion

TRAINING PROGRAM

- Health and Safety at the workplace
- Protections against ESD
- Handling of soldering stations
- Basics of soldering
- Role and properties of solder and fluxes

- Types and construction of printed circuit boards
- Identification of components in surface mount technology
- IPC-A-610 standard in assembly of surface mount components
- Practical classes
- Theoretical and practical exam

RTC-04 TRAINING



MANUAL SOLDERING IN MIXED TECHNOLOGY - THT AND SMT

TRAINING ADVANTAGES

- Will acquire up-to-date knowledge and gain practical skills in the assembly of electronic assemblies manufactured using surface mount and through-hole technologies, in accordance with applicable international standards
- Will receive a handbook with didactic materials
- Will obtain personal certificate of training completion

TRAINING PROGRAM

- Health and safety at the workplace
- Protections against ESD
- Handling of soldering stations
- Basics of soldering
- Role and properties of solder and fluxes

- Types and construction of printed circuit boards
- Identification of components in mixed technology (SMT and THT)
- IPC-A-610 standard in assembly of SMD and THT components
- Practical classes
- Theoretical and practical exam

RTC-05 TRAINING



MANUAL SOLDERING OF WIRES AND CABLES

TRAINING ADVANTAGES

- Will acquire up-to-date knowledge and gain practical skills related to the requirements for wire and cable assembly, in accordance with applicable international standards
- Will receive a handbook with didactic materials
- Will obtain personal certificate of training completion

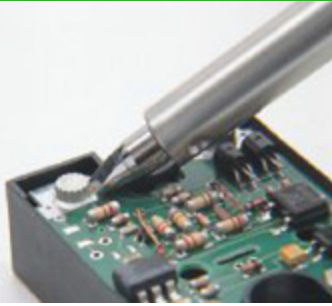
TRAINING PROGRAM

- Health and safety at the workplace
- Protections against ESD
- Handling of soldering stations
- Basics of soldering
- Role and properties of solder and fluxes

- Types and construction of wires and cables
- IPC/WHMA-A-620 standard in the area of wire and cable preparation and soldering with various types of solderable terminals
- Practical classes
- Theoretical and practical exam



RTC-06 TRAINING



REPAIR OF ELECTRONIC ASSEMBLIES MADE IN THT/SMT TECHNOLOGY

TRAINING ADVANTAGES

- Will acquire up-to-date knowledge and gain practical skills related to the requirements for repairing electronic assemblies manufactured using THT/SMT technologies, in accordance with applicable international standards
- Will obtain personal certificate of training completion

TRAINING PROGRAM

- Health and safety at the workplace
- Protections against ESD
- Handling of soldering stations and repair systems
- Role and properties of solder and fluxes
- Types and construction of printed circuit boards
- Identification of components in through hole and surface mount technology

- IPC-A-610 standard in assembly of through hole and surface components
- Disassembly and assembly techniques of through hole components according to IPC-7711
- Disassembly and assembly techniques of surface components according to IPC-7711
- Practical classes
- Theoretical and practical exam

RTC-07 TRAINING



REPAIR AND MODIFICATION OF PRINTED CIRCUIT BOARDS

TRAINING ADVANTAGES

- Will acquire up-to-date knowledge and gain practical skills related to the requirements for repairing printed circuit boards, in accordance with applicable international standards
- Will obtain personal certificate of training completion

TRAINING PROGRAM

- Health and safety at the workplace
- Protections against ESD
- Technology of printed circuits production
- Types and construction of printed circuit boards

- Repair techniques of damaged printed circuits boards: laminates, holes metallization, conductors and solder pads, edge connectors
- Assembly of connecting jumper wires
- Practical classes
- Theoretical and practical exam

RTC-08 TRAINING



ASSEMBLY, DISASSEMBLY AND REGENERATION OF BGA/CSP COMPONENTS LEADS

TRAINING ADVANTAGES

- Will acquire up-to-date knowledge and gain practical skills in the assembly and removal of BGA/CSP components, as well as the inspection methods used after assembly, in accordance with applicable international standards
- Will receive a handbook with didactic materials
- Will obtain personal certificate of training completion

TRAINING PROGRAM

- Health and safety at the workplace
- Protections against ESD
- Types and kinds of circuits with BGA/CSP components
- Assembly and disassembly with use of vision positioning systems according to IPC-7711

- Methods of inspection and proper interpretation of X-ray documentation according to IPC-7095
- Regeneration techniques of BGA/CSP components leads
- Practical classes
- Theoretical and practical exam

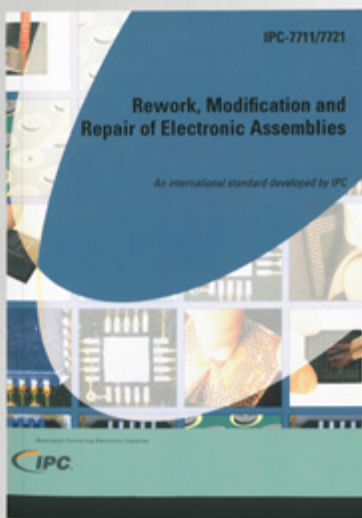
IPC-A-610 STANDARD



TOPICS

- Introduction, product classes, terms and definitions, acceptability conditions, etc.
- Applicable documents
- Handling of electronic assemblies
- Mechanical assembly
- Soldering (general criteria)
- Cable connections in configuration with various types of terminals
- Hole mounting technology
- Surface mount technology
- Component damages
- Criteria for acceptability of printed boards (laminate, markings, covering layer, pollution)
- Solder mask
- Discrete wiring
- High voltage

IPC 7711 / 7721 STANDARD

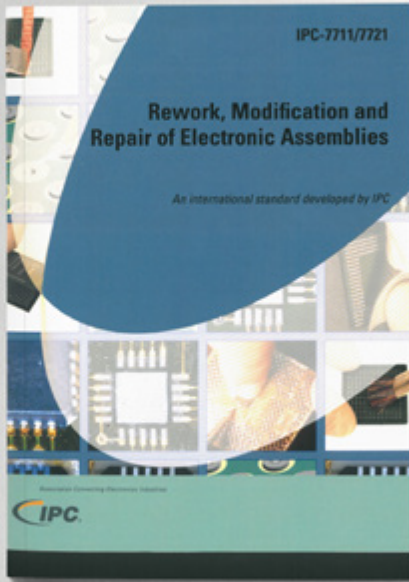


TOPICS

- Introduction, product classes, terms and definitions, acceptability conditions, etc.
- Handling of electronic assemblies/cleaning
- Covering layer
- Drying and preheating
- Epoxy resins - mixing and applying
- Description/labeling
- Care and maintenance of tip
- Disassembly/assembly of through hole components
- Disassembly/assembly of connector and PGA
- Disassembly/assembly of Chip and LCC component
- Disassembly/assembly of SOT, SOIC and QFP and PLCC component
- Disassembly/assembly of BGA/CSP and PLCC socket
- SMD solder pads preparation
- Short circuits removal
- Blistering and delamination
- Warping and twisting
- Repair of hole
- Repair of base material and edge connector
- Repair of conductors and solder pads as well as metallized holes
- Connection wires and additional components
- Repair of flexible conductor wire and wire splicing



IPC/WHMA-A-620 STANDARD



TOPICS

- Introduction, product classes, terms and definitions, acceptability conditions, etc.
- Applicable documents
- Wires preparation
- Soldered terminations
- Crimped terminations (contacts and holders)
- Insulation Displacement Connector (IDC)
- Ultrasonic welding
- Wire braids
- Connector assembly
- Molding/potting
- Cable sets and wires
- Marking/labeling
- Coaxial and biaxial cable connections
- Securing wire harnesses
- Electrical shielding of cables/wire harnesses
- Protective coatings of cables/wire harnesses
- Final product assembly
- Solderless wrap
- Mechanical and electrical testing

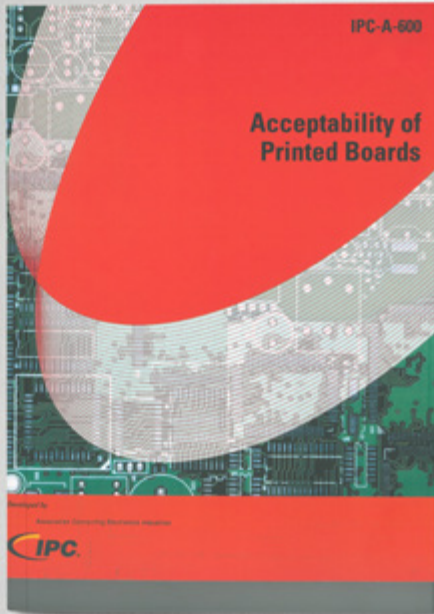
IPC-J-STD-001 STANDARD



TOPICS

- Introduction - general news
- Applicable documents
- Requirements for materials, components and equipment
- General requirements for soldering and assembly
- Wire connections and connections to terminals
- Through hole assembly and terminations
- Assembly of surface components
- Requirements concerning cleaning process
- Requirements for PCBs
- Covering layers and sealing
- Product quality assurance
- Implementing of improvements and repairs

IPC-A-600 STANDARD



TOPICS

- Introduction - general news
- Externally visible characteristics
- Plate edges
- Base material
- Subsurface base material
- Solder coating and tin-lead melt
- Metallized holes
- Non-metallised holes
- Printed contact pads
- Marking
- Solder mask
- Definition of conductive layer - dimensional characteristics
- Flatness
- Internally visible characteristics
- Dielectric materials
- Conductive layers - general requirements
- Metallized holes - general requirements
- Metallized holes - drilled or punched
- Special types of printed boards
- Flexible and rigid-flexible printed circuits
- Printed circuit boards with metal core
- Flush printed boards
- Purity testing
- Solder ovality testing
- Electrical integrity





IPC-6012 STANDARD



TOPICS

- Scope
 - Definition of scope
 - Objective
 - Performance and type classification
 - Terms and definitions
 - Interpretation of terminology
 - Presentations
 - Revision level changes
- Applicable documents
- Requirements:
 - General
 - Materials
 - Visual inspection
 - Dimensional requirements for printed circuit boards
 - Definition of conductor
 - Structural integrity
 - Solder mask requirements
 - Electrical requirements
 - Cleanliness
 - Special requirements
 - Repair
 - Rework/modifications
- Quality assurance provisions:
 - General
 - Qualification testing
- Notes:
 - Ordering data
 - Superseded specifications



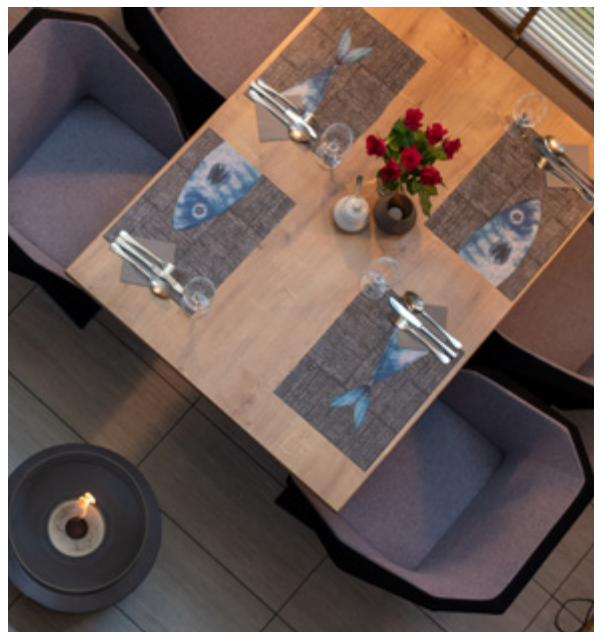
AUTHORISED **IPC** TRAINING
CENTER IN POLAND



CONFERENCE CENTER HOTEL AND RESTAURANT

The Portofino Conference Center has 6 conference and training rooms of various sizes, all with modern and elegant design, perfectly adapted to the customer's needs.

Additionally, each meeting can be accompanied with catering services. In case of a longer stay, rest at the comfortable Portofino hotel.



Detailed offer and more about the company can be found on the website at:

Portofino
— ★ ★ ★

PORTOFINO.COM.PL



HOTEL ***

Uniquely designed rooms are prepared for both work and rest to ensure comfort in every situation. Pleasant hotel staff provides friendly and professional assistance around the clock.

MEDITERRANEAN RESTAURANT

A carefully selected menu ensures a balance between the tradition of Polish cuisine and an exotic expedition through the flavours of the Mediterranean Sea.



RELAX ZONE

A high-level training is one, where time works to your advantage and temporal issues give way to relaxation and new energy

At the disposal of all hotel guests, we leave the RELAX ZONE, where you will find a salt cave, sauna and billard club.

For more information, please contact us:

T: + 48 54 233 05 55
E: hotel@portofino.com.pl

20

MODERN AND COMFORTABLE ROOMS

6

AIR-CONDITIONED CONFERENCE AND TRAINING HALLS

15

YEARS OF EXPERIENCE IN TRAINING AND CONFERENCE SERVICES



CLEANROOM ZONES

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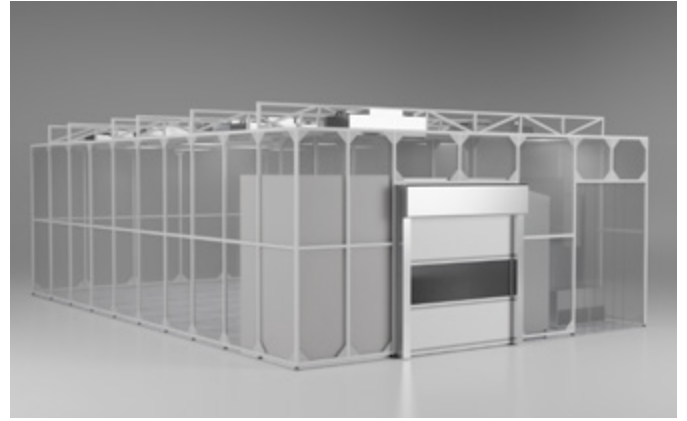
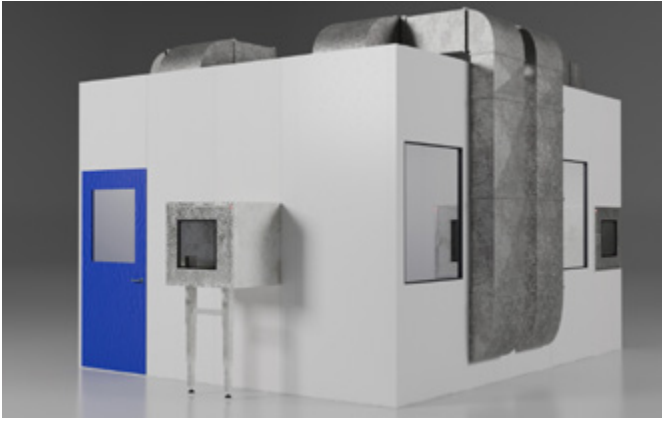
PLANNING, CONSTRUCTION AND EQUIPMENT FOR CLEANROOMS

We provide the access to modern, very affordable technology and engineers with many years of experience in the design and construction of CleanRoom and CleanBox areas.

For both solutions we are able to carry out all the necessary work - from planning, to construction and continued maintenance of the zone. Our team has extensive work experience resulting from numerous training courses and implementation of previous projects, so we can guarantee diligence at work and reliability of execution.



Detailed offer and more information about the company can be found on our website:

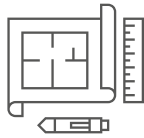


CLEANROOM CONSTRUCTION

An area with a predetermined way of controlling pollution from particles and micro-organisms in the environment, built and used in a way that limits the entry, generation and accumulation of pollution.

CLEANBOX CONSTRUCTION

A separate clean zone created with a mobile construction installed inside the room, manufacturing hall or Clean Room area.



DESIGNED

During the planning phase we deliberately take into account the smallest details, which are verified many times.



CONSTRUCTION

Teams with extensive work experience guarantee diligence and reliability of execution.



EQUIPMENT

We offer a wide range of high quality products designed primarily to equip cleanroom areas.

THE HIGHEST QUALITY OF SERVICES

We invite you to our headquarters, where you can learn more about the creation process for clean zones.

We can also always visit you at your premises and discuss the project, but visiting us will not be a waste of time.

For more information, please contact us:

T: + 48 54 413 83 00

E: office@cleanroom.com.pl

SAFE AND EFFICIENT
CLEANROOMS

WE WORK IN YOUR
LANGUAGE: POLISH,
ENGLISH, ROMANIAN,
BULGARIAN, CROATIAN,
SERBIAN, MACEDONIAN

WE CARRY OUT PROJECTS
THROUGHOUT
THE COUNTRY



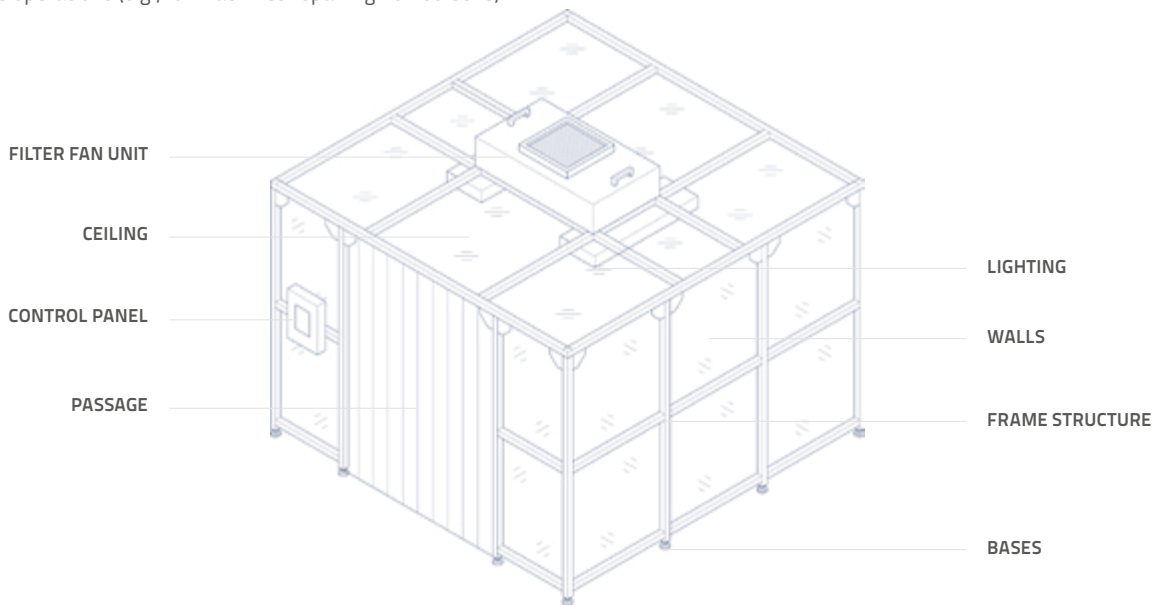
MOBILE CLEANROOM ZONES REECO CR-CXB



- The Clean Box is an ideal solution for customers who do not require a permanent cleanroom. Its main advantage is mobility—it can be disassembled and moved to any other location within the facility. A common application of the Clean Box is to designate a special zone within a laboratory, for example, to create a measurement area or a workstation for handling semi-finished products.
- Owning a Clean Box is a highly efficient and economically advantageous solution.

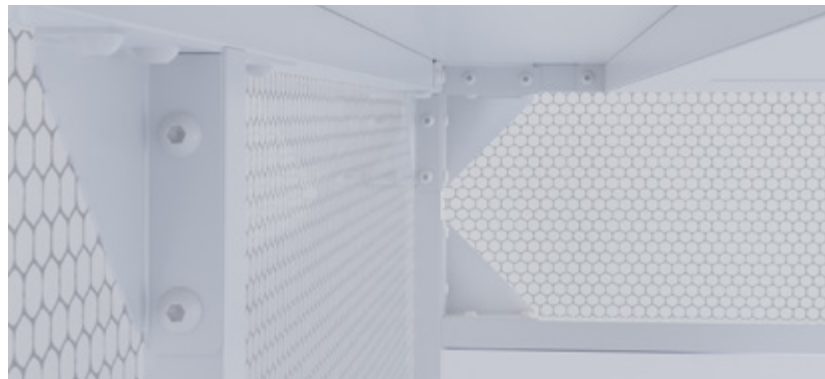
- Installing a Clean Box allows you to quickly achieve one of the following objectives:
 - Create a mobile clean zone that can be easily relocated to another facility or stored after the project is completed
 - Designate an area with a guaranteed cleanliness level for machine operations (e.g., for machines repairing LCD screens)

- Increase the cleanliness class in a specific area of a Cleanroom (often used within part of a Cleanroom to set up a measurement lab or a workstation for handling semi-finished products)



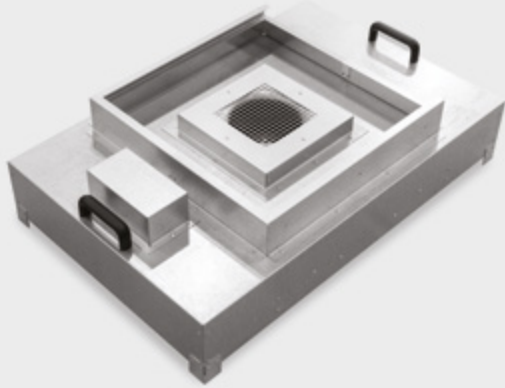
- The Clean Box is equipped with technical lighting designed for environments with a high level of sterility, tailored to the room's classification.
- Lighting can be customized to meet individual requirements for various types of sterile enclosures such as cleanrooms, including fixtures with enhanced fire resistance (REI 120, REI 180).

- Working environment parameters:
 - Temperature: 5 – 30°C
 - Relative air humidity: between 40% and 70%





REECO FAN FILTER UNITS



DESCRIPTION

- Reeco fan filter unit with electronic speed control ensures lower energy consumption and reduced noise. Thanks to components from renowned manufacturers, it provides long service life with low airflow resistance, guaranteeing low operating costs.
- Pre-filter, class G2
 - Effective for particle of size: $\geq 10 \mu\text{m}$ according to EN1822
 - Construction: high quality anodized aluminum
 - Filtering medium: synthetic fiber
- HEPA filter, class H13
 - Effective for particle of size: $\geq 0,01 \mu\text{m}$ according to EN1822
 - Construction: high quality anodized aluminum
 - Filter medium: glass fibre

CAT. NO.	CR-RE-FFU0001	CR-RE-FFU0002	CR-RE-FFU0003
VOLTAGE	230V - 1PH - 50/60Hz		
POWER	180 W	160 W	123 W
MAX ROTATIONAL SPEED	3020 RPM		
HOUSING DIMENSIONS	615 x 1225 x 350 mm	575 x 1175 x 350 mm	575 x 875 x 350 mm
AIRFLOW	1100 - 1200 m ³ /h	1000 - 1100 m ³ /h	800 - 900 m ³ /h
FINAL FILTER DIMENSIONS	610 x 1220 x 69 mm	570 x 1170 x 69 mm	570 x 870 x 69 mm
PREFILTER EFFICIENCY	75%@5 μm		
HEPA FILTER EFFICIENCY	99,99%@0,3 μm		

REECO CONTROL SYSTEMS



DESCRIPTION

- Control system for Cleanbox and Cleanroom environments
- Integral part of the system, connected with FFU units and lighting
- Control of FFU airflow power and light on/off function
- Option to display additional parameters:
 - Overpressure relative to adjacent area
 - Room temperature
 - Air humidity

HEPA H13 FILTER



DESCRIPTION

- HEPA filter dedicated to capture micro - particles such as: oil smoke in the initial phase, micro - particles of aerosols, radioactive aerosols. Frame with stable construction resistant to mechanical damage. The use of high quality anodized aluminum eliminates the multiplication of microorganisms and protects against moisture.
- Class: H13
- Frame construction: high quality anodized aluminium
- Filter media: glass fibre
- Gasket: PU

CAT. NO.	CR-FILTR001	CR-FILTR002	CR-FILTR003
EFFECTIVE FOR PARTICLES WITH DIMENSIONS	$\geq 0,01 \mu\text{m}$ according to EN1822	$\geq 0,01 \mu\text{m}$ according to EN1822	$\geq 0,01 \mu\text{m}$ according to EN1822
WORKING PRESSURE OF THE FILTER	110 Pa	110 Pa	110 Pa
EFFICIENCY	99,99%@0,3 μm	99,99%@0,3 μm	99,99%@0,3 μm
COMPATIBLE WITH	CR - FFU - 001	CR - FFU - 002	CR - FFU - 003, CR - RE - FFU0003
DIMENSIONS	1220 x 610 x 69 mm	1170 x 570 x 69 mm	870 x 570 x 69 mm



G2 PRE-FILTER



CR-PREFILTER01

DESCRIPTION

- Pre - filter dedicated for the simplest filtration to capture large dust particles/separated substances such as: volatile ash, water drops, textile fibres. Frame made of high quality anodized aluminium and a double protective mesh guarantee effective pre - filtration
- Frame construction: high quality anodized aluminium
- Filter media: synthetic fibre
- Gasket: PU

EFFECTIVE FOR PARTICLES WITH DIMENSIONS	>= 10Um according to EN1822
CLASS	G2
EFFICIENCY	75%@5 Um
COMPATIBLE WITH	CR - FFU - 001, CR - FFU - 002, CR - FFU - 003, CR - RE - FFU0003
DIMENSIONS	495 x 495 x 21 mm

ANTISTATIC PVC FOIL



CR-FOLIA-100

DESCRIPTION

- Used for the construction of walls and ceilings of mobile clean box rooms

MATERIAL	PVC foil
COLOUR	Transparent Carbon/mesh print
SURFACE RESISTANCE	Front $1 \times 10^7 \Omega$ Back $1 \times 10^{12} \Omega$
DIMENSIONS (T x W x L)	1.0 x 1370 x 30000 mm

AIR SHOWER, STAINLESS STEEL



DESCRIPTION

- Material of construction: 304 stainless steel
- LED lamp 11 W (CR-GAS-024: 1 pc; CR-GAS-022: 2 pcs; CR-GAS-023: 3 pcs)
- Custom sizes available on request

HEPA FILTER	
DIMENSIONS	630 x 630 x 69 mm
PARTICLE SIZE	$\pm 0,01$ Um according to EN1822 standard
EFFICIENCY	99.99%@0.3Um
PRE-FILTER	
DIMENSIONS	775 x 380 x 17 mm
PARTICLE SIZE	± 10 Um
EFFICIENCY	75%@5Um

CATALOGUE NUMBER	CR-GAS-022	CR-GAS-023	CR-GAS-024
EXTERNAL SIZE	1150 x 2000 x 2250 mm	1150 x 3000 x 2250 mm	1150 x 1000 x 2250 mm
INTERNAL SIZE	800 x 1930 x 1950 mm	800 x 2930 x 1950 mm	800 x 930 x 1950 mm
DOOR WIDTH	700 mm		
NOZZLE AIR VELOCITY	> 25 m/s		
NOZZLE LAYOUT	24 pcs on both sides, 8 on the top	36 pcs on both sides, 16 on the top	12 pcs on both sides, 4 on the top
NOISE LEVEL	<65 dB (1 m from the equipment)		
FAN POWER SUPPLY	380 V / 50 Hz		
QUANTITY POWER/SET	2 pcs 750 W	3 pcs 750 W	1 pcs 750 W
AIRFLOW	5000 m ³ /h	7500 m ³ /h	2500 m ³ /h



ACTIVE PASS BOX



CR-APB-004

DESCRIPTION

- Blown-in feed window for clean areas
- LED lighting
- Custom sizes available on request

USABLE DIMENSIONS	600 x 600 x 600 mm
CONSTRUCTION	Stainless steel 304
CAPACITY	1200 m ³ /h
AIR VELOCITY	20 m/s
VOLUME LEVEL	< 65 dB
HEPA FILTER	Effectual for particles with dimensions ± 0,01 Um according to EN1822 Effectiveness: 99.99%@0.3Um
PRE-FILTER	Effective for particles of ± 10Um Dimensions: 525 x 275 x 17 mm Effectiveness: 75%@5Um

PASSIVE PASS BOX, STAINLESS STEEL



DESCRIPTION

- Non-ventilated pass-through window designed for cleanroom areas
- Construction: 304 stainless steel
- Material thickness: 1.0 mm
- Flush-mounted doors
- Lock: electromagnetic
- Optional: UV lighting
- Custom sizes available on request

CAT. NO.	CR-PPB-001S	CR-PPB-002S	CR-PPB-003S	CR-PPB-004S
EXTERNAL DIMENSIONS	700 x 570 x 630 mm	800 x 670 x 730 mm	1000 x 870 x 930 mm	910 x 820 x 880 mm
USABLE DIMENSIONS	500 x 500 x 500 mm	600 x 600 x 600 mm	750 x 750 x 750 mm	910 x 820 x 880 mm

PASSIVE PASS BOX, STAINLESS STEEL



DESCRIPTION

- Non-ventilated pass-through window designed for cleanroom areas
- Housing construction: cold-rolled steel
- Internal structure: stainless steel
- Material thickness: 1.0 / 1.2
- Lock: electromagnetic or mechanical
- Optional: UV lighting
- Custom sizes available on request

CAT. NO.	CR-GPB-001	CR-GPB-002	CR-GPB-003	CR-GPB-004
EXTERNAL DIMENSIONS	700 x 500 x 590 mm	800 x 600 x 690 mm	950 x 750 x 840 mm	1000 x 800 x 890 mm
USABLE DIMENSIONS	500 x 500 x 500 mm	600 x 600 x 600 mm	750 x 750 x 750 mm	910 x 820 x 880 mm



DISPENSER FOR GLOVES



CR-DIS-001

DESCRIPTION

- Dispenser for caps, gloves, protective covers, footwear, or masks
- Made of stainless steel, wall-mounted
- Top-loading – openings allow visual monitoring of product stock levels
- Sloped top reduces particle accumulation and makes cleaning easier
- An essential element in most clean work environments and support rooms

DIMENSIONS

40 x 22 x 105 cm

MATERIAL

Stainless steel

NUMBER OF COMPARTMENTS

2

LAPTOP STAND WITH PERFORATED STAINLESS STEEL TOP



CR-OTH-001

DESCRIPTION

- Perforated tabletop minimizes turbulent air movement in the cleanroom environment
- Dimensions: 50.4 x 48 x 100 cm
- Choice of vibration-dampening pads or lockable wheels
- For added equipment security, the laptop can be strapped to the stand
- Made of stainless steel
- Easy to clean and disinfect
- Smooth welds

WORKSTATION



DESCRIPTION

- Stainless steel work table for Clean Room environments
- Connectors made of stainless steel or anodized aluminum
- Table base constructed from round profiles mounted on vibration-dampening pads resistant to chemical agents
- Steel tabletop with a maximum load capacity of 100 kg and rounded edges
- Construction: perforated table, rounded edges, smooth welds
- Easy to clean and disinfect

CAT. NO.

DIMENSIONS

CR-TAB-001

1800 x 760 x 900 mm

CR-TAB-002

1500 x 760 x 900 mm



STAINLESS STEEL COMPUTER STATION



CR-TAB-003

DESCRIPTION

- Computer workstation for Clean Room environments
- Made entirely of electropolished stainless steel
- Construction: perforated table, rounded edges, smooth welds
- The base is made of round profiles mounted on pads that eliminate vibrations and are resistant to chemical agents
- Additionally equipped with one lockable drawer mounted under the tabletop and a sliding keyboard shelf
- Designed for seated work
- Easy to clean and disinfect

DIMENSIONS	120 x 60 x 78cm
	Other sizes and models available on request
MATERIAL	Stainless steel
LOAD CAPACITY	Max. 80 kg

CLEANROOM TABLE, STAINLESS STEEL



CR-TAB-004

DESCRIPTION

- **TOP QUALITY MATERIALS:** Stainless steel, resistant to chemicals, moisture and heat
- **EASY TO CLEAN:** Smooth surface that minimises the risk of dirt and micro - organisms accumulating
- **STABILITY:** Robust construction for reliability in daily use.
- **VERSATILITY:** Ideal for use in a wide range of industries including pharmaceutical, electronics, food and more

DIMENSIONS	1200 x 600 x 800 mm
MATERIAL	Stainless steel

CLEANROOM SHELF



CR-SHE-001

DESCRIPTION

- The stainless steel rack is the ideal solution for clean rooms where hygiene, durability and ease of maintenance are key. Thanks to its design, it meets the high demands of laboratory, pharmaceutical and medical environments
- Material: high - quality stainless steel (AISI 304 or 316) resistant to corrosion and chemical attack.
- Open design: ensures free air circulation, minimising the risk of dirt accumulation
- Three smooth shelves: facilitate cleanliness and sterility of stored materials
- Adjustable feet: allows stable positioning on uneven surfaces

WIDTH	1800 mm
HEIGHT	800 mm
DEPTH	600 mm



STAINLESS STEEL CABINET, 3 SHELVES PER WING



CR-E-CAB-001-T

DESCRIPTION

- Made of stainless steel
- Resistant to chemicals and easy to clean and disinfect
- Stable construction
- 3 shelves on the left, 3 shelves on the right
- Top of the cabinet - oblique

WIDTH	1200 mm
LENGTH	600 mm
HEIGHT	2060 mm

STAINLESS STEEL CABINET



CR-E-CAB-004

DESCRIPTION

- Made of stainless steel
- Resistant to chemicals and easy to clean and disinfect
- Stable construction
- 8 front doors with vertical handle

WIDTH	1000 mm
LENGTH	400 mm
HEIGHT	2000 mm

LOCKER FOR CLEAN ZONES REECO



CR-WI-L-001

DESCRIPTION

- Material: Stainless Steel 304
- Steel Thickness: 1.2mm

WIDTH	1500 mm
LENGTH	450 mm
HEIGHT	2000 mm



CLOTHES DRYING RACK FOR CLEAN ZONES REECO



CR-WI-CDR-001

DESCRIPTION

- Material: Stainless Steel 304
- Steel Thickness: 1.2mm

WIDTH	1200 mm
LENGTH	450 mm
HEIGHT	1800 mm

STAINLESS STEEL WORKWEAR HANGER



CR-OTH-004

DESCRIPTION

- Made of stainless steel
- Resistant to chemicals and easy to clean and disinfect
- Stable construction
- Smooth weld

WIDTH	1300 mm
LENGTH	560 mm
HEIGHT	2090 mm

DOUBLE-SIDED STAINLESS STEEL BENCH FOR CLEANROOMS REECO



CR-WI-B-003

DESCRIPTION

- Exceptionally functional and durable double-sided bench, made of high-quality 1.0 mm thick stainless steel 304, ideal for use in Cleanroom areas
- The polished surface not only offers an aesthetic appearance but is also easy to clean and resistant to corrosion
- Its solid construction and premium materials provide not only practical but also long-lasting equipment for any space where hygiene and cleanliness are a priority

WIDTH	1000 mm
LENGTH	500 mm
HEIGHT	500 mm



WERKSITZ CHAIR FOR CLEANROOM ENVIRONMENTS



WR-WS 1710 RR ESD

DESCRIPTION

- Certified for use in ISO Class 5 cleanrooms in accordance with DIN EN ISO 14644-1
- Backrest upholstered with synthetic leather, colour: black
- Seat upholstered with synthetic leather, colour: black
- Dimensions: top/bottom x height 340/445 x 515 mm; rear/front x depth 480/510 x 470 mm
- Angle adjustment: backrest from -10° to $+8^{\circ}$; seat from -4° to $+10^{\circ}$
- Height adjustment: from 480 to 600 mm
- Column xx10, chrome-plated, with column cover
- Five-star polished base (\varnothing 610 mm) with conductive glides
- Conductive chair for dissipating electrostatic charges, electrical resistance: $6 \times 10^6 \Omega$

WERKSITZ CHAIR FOR CLEANROOMS



WR-WS 1720 RR ESD

DESCRIPTION

- Chair designed for ISO Class 5 cleanrooms, compliant with DIN EN ISO 14644-1
- Ensures the highest quality and safety of work in environments requiring controlled cleanliness
- The WS 1720 RR ESD model features a specialized design that enables effective dissipation of electrostatic charges
- Dimensions: top/bottom width x height: 340/445 x 515 mm; rear/front width x depth: 480/510 x 470 mm
- Backrest tilt adjustment: from -10° to $+8^{\circ}$
- Seat tilt adjustment: from -4° to $+10^{\circ}$
- Seat upholstered with eco-leather
- Height adjustment: from 510 to 630 mm
- Column: xx20, chrome-plated, with column cover
- Base: five-star, polished (\varnothing 655 mm), with conductive twin castors (\varnothing 65 mm)

WERKSITZ CLASSIC ESD SAFE



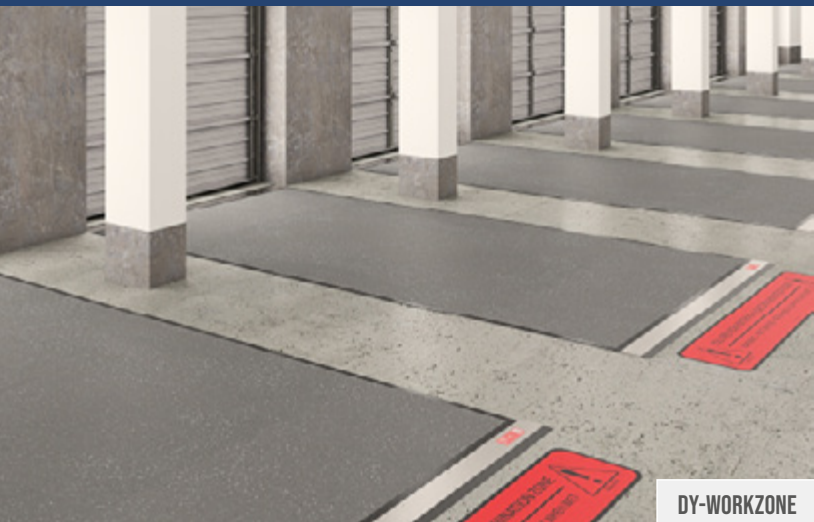
WR-WS1711.20RR ESD

DESCRIPTION

- Certified for use in ISO Class 5 cleanrooms in accordance with DIN EN ISO 14644-1
- Backrest upholstered with synthetic leather, colour: black
- Seat upholstered with synthetic leather, colour: black
- Dimensions: top/bottom x height: 340/445 x 515 mm; rear/front x depth: 480/510 x 470 mm
- Angle adjustment: backrest from -10° to $+8^{\circ}$; seat from -4° to $+10^{\circ}$
- Height adjustment: from 675 to 885 mm
- Column xx11, chrome-plated, with column cover
- Five-star polished base (\varnothing 713 mm), with conductive 'sit-stop' castors (\varnothing 50 mm), braked by body weight lock
- Conductive chair for dissipating electrostatic charges: electrical resistance $6 \times 10^6 \Omega$



DYCEM WORKZONE HEAVY-DUTY CONTAMINATION CONTROL MATS



DY-WORKZONE

DESCRIPTION

DyceM WorkZone is an industrial-grade contamination control system engineered for heavy-duty environments. Capable of supporting forklifts, pallet jacks and loads up to 90 kg/cm², WorkZone captures up to 99.9% of wheel-borne contamination before it enters your critical areas.

Customization Options

Every facility is different, which is why the DyceM team works closely with each client to find the best solution. Custom sizes and shapes are available to fit complex spatial layouts. WorkZone can be tailored to individual requirements through:

- A shape and size customized to the layout of your facility and traffic flow
- Color options matched to the facility's aesthetics
- Edge finishing options that support seamless integration with the flooring
- Visual elements that enhance traffic safety

COLOR OPTIONS TO MATCH FACILITY AESTHETICS

GRANITE



CHARCOAL



EDGE FINISHING OPTIONS FOR EASY INTEGRATION

BLACK



RED



BLUE



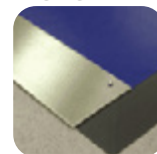
GREEN



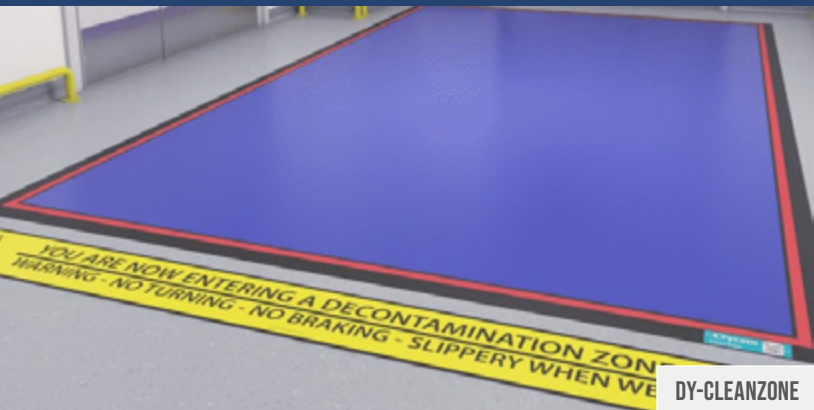
YELLOW



METAL/BLACK EDGING



DYCEM CLEANZONE REUSABLE CONTAMINATION CONTROL MATS



DY-CLEANZONE

DESCRIPTION

DyceM CleanZone is a scientifically proven reusable solution that attracts, captures, and retains up to 99.9% of foot and wheel-borne particles and up to 75% of airborne contamination, enhancing your contamination control efforts.

Customization Options

Every facility is unique, which is why the DyceM team works with you to find the best solution. CleanZone can be tailored to your individual needs through:

- A shape and size customized to your facility's layout and traffic flow
- Color options that match your facility's aesthetics
- Edge finishing options that facilitate integration with the flooring
- Visual elements that enhance traffic safety

COLOR OPTIONS TO MATCH FACILITY AESTHETICS

MIDNIGHT



SLATE



GREEN



RED



COBALT



TITANIUM



EDGE FINISHING OPTIONS FOR EASY INTEGRATION

BLACK



RED



BLUE



GREEN



YELLOW





DYCEM FLOATING DECONTAMINATION MAT



DESCRIPTION

- Dycem decontamination mat is a special mat made out of polymer, designed to collect contaminants from employees' shoes and carts entering critical production areas (cleanroom, laboratory, EPA zone). The floating type mat can be laid on smooth or rough surfaces.
- Ready - to - use, requiring no installation
- Cleanable, no need to dispose of peeling layers
- Ideal in areas where long - term adhesion to the ground is not possible
- Easy to implement into existing cleaning systems
- Available in color variations
- Prevents up to 99.9% of contaminants from entering critical areas
- Reduced cleaning costs due to no transfer of contaminants to critical areas
- Easy to clean, maintain and incorporate into existing standard operating procedures

CAT. NO.	DY-CZ01FS1206XX	DY-CZ01FS1212XX	DY-CZ01FS1215XX	DY-CZ01FS1220XX	DY-CZ01FS1230XX
WIDTH	1200 mm	1200 mm	1200 mm	1200 mm	1200 mm
LENGTH	600 mm	1200 mm	1500 mm	2000 mm	3000 mm
WEIGHT	6 kg	6 kg	8 kg	10 kg	12 kg
CAT. NO.	DY-CZ01FS1240XX	DY-CZ01FS2010XX	DY-CZ01FS2020XX	DY-CZ01FS2030XX	DY-CZ01FS2040XX
WIDTH	1200 mm	2000 mm	2000 mm	2000 mm	2000 mm
LENGTH	4000 mm	1000 mm	2000 mm	3000 mm	4000 mm
WEIGHT	12 kg	14 kg	16 kg	18 kg	20 kg

DECONTAMINATION MAT



RE-HM-1103-BL

DESCRIPTION

- Protection against the introduction of contaminants into clean and high - purity areas
- Collects contaminants from the shoes and wheels of transport trolleys
- 30 layers of polyethylene film coated with an adhesive
- Made of LDPE - low density polyethylene
- Full - surface adhesive - the bottom layer of the mat ensures even and stable adhesion to the substrate
- No floor frames are required
- Resistant to plasticisers, oils and UV radiation
- Numbering of each layer - easy check of the wear condition of the mat

DIMENSIONS	660 x 1140 mm
MATERIAL	LDPE
NUMBER OF LAYERS	30 - covered with an adhesive
THICKNESS OF THE LAYER	35 µm
PACKAGE	10 pieces
MAT TYPE	Peelable
WEIGHT	8,03 kg



CABINET DESICCATOR SNW TYPE



CR-SNW-001

DESCRIPTION

- Wide range of applications, such as:
 - Storage or testing under vacuum conditions
 - Sample inspection during gas exchange
- Enclosure structure: Acrylic glass

EXT. DIM. INTERNAL DIM.	600 x 453 x 600 mm 350 x 275 x 400 mm
MANOMETER	Up to 0 to - 0.1 MPa
VALVES	9 mm diameter (2 pcs)
SHELVES	2 pcs
SHELF THICKNESS	5 mm
WEIGHT	38 kg

CABINET DESICCATOR SNH TYPE



CR-SNH-001

DESCRIPTION

- Wide range of applications, such as:
 - vacuum storage or testing
 - control of samples at gas exchange
- A 100 V 2P socket is located inside the container, at the bottom left on the rear surface, and the switch is positioned outside the container in TAP type configuration.
- Casing design: Acrylic glass

EXT. DIM. INTERNAL DIM.	412 x 343 x 620 mm 220 x 260 x 410 mm
MANOMETER	Up to 0 to - 0.1 MPa
VALVES	9 mm diameter (2 pcs)
SHELVES	3 pcs
SHELF THICKNESS	5 mm
WEIGHT	19 kg

CABINET DESICCATOR MB TYPE



CR-MB-001

DESCRIPTION

- Vacuum desiccator made of acrylic, handmade using advanced joining techniques. It is also useful as a package tester as it is designed to expand even when there is liquid inside.
- Gasket - silicone

EXT. DIM. INTERNAL DIM.	400 x 321 x 363 mm 260 x 235 x 200 mm
MANOMETER	Up to 0 to - 0.1 MPa
VALVES	9 mm diameter (2 pcs)
SHELVES	2 pcs
SHELF THICKNESS	5 mm
WEIGHT	11 kg



CLEAN BENCH WITH HORIZONTAL AIR FLOW



CR-HCB-001

DESCRIPTION

- Workstation: double
- Housing construction: stainless steel, powder coated
- Workstation construction: stainless steel
- Side panels: tempered glass
- Lighting: 300 lx intensity LED
- Airflow: horizontal, with a capacity of 900 m³/h
- Custom sizes available on request

USABLE DIMENSIONS	1430 x 620 x 575 mm
AIR VELOCITY	0.3 - 0.6 m/s
NOISE LEVEL	< 61 dB
HEPA FILTER EFFECTIVENESS	H13 99.99% @ 0.3Um
EFFECTUAL FOR PARTICLES WITH DIMEN.	± 0,01 Um according to EN1822
PRE - FILTER CLASS	G4
EFFECTIVE FOR PARTICLES OF	± 10Um

CLEAN BENCH WITH HORIZONTAL AIR FLOW



CR-HCB-001

DESCRIPTION

- The work area is a separate part of the chamber, minimizing vibrations
- Enclosure structure: cold-rolled steel
- Workstation structure: stainless steel
- Lighting: 300 lx intensity LED
- Airflow: vertical, with a capacity of 950 m³/h
- Custom sizes available on request

USABLE DIMENSIONS	970 x 620 x 570 mm
AIR VELOCITY	0.3 - 0.5 m/s
NOISE LEVEL	< 65 dB
FILTER	HEPA
EFFECTUAL FOR PARTICLES WITH DIMEN.	± 0,01 Um according to EN1822
EFFECTIVENESS	99.99% @ 0.3Um
NUMBER OF DRAWERS	2

CS-G-T GLOVE BOX



CR-CS-G-T

DESCRIPTION

- Elimination of reinforcement bars provides excellent visibility
- Made of poly(methyl methacrylate) - acrylic glass
- Ideal gas exchange conditions
- Standard equipped with an analogue vacuum meter
- Operator - friendly pressure control
- For working with heavy - duty materials
- Easy removal of the upper acrylic part of the chamber

INTERNAL DIMENSIONS	692 x 340 (top)/470 (bottom) x 553 mm
DIMENSIONS OF THE FEED WINDOW	200 x 200 x 200 mm
FEED WINDOW VALVES	2 pcs. / head diameter 9mm
PRESSURE INDICATOR	for feed window 0 - 0.1MPa
MATERIAL	acrylic resin + aluminum
GLOVES	1 pair + fixing o - rings



CS-DX-II GLOVE BOX



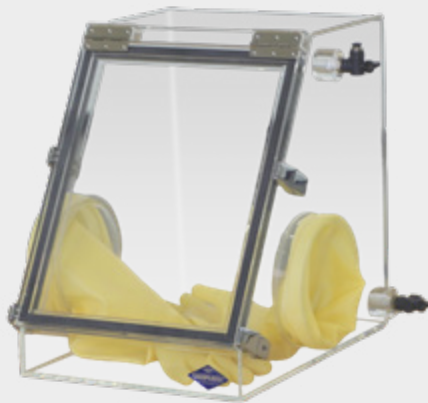
CR-CS-DX-II

DESCRIPTION

- Elimination of reinforcement bars provides excellent visibility
- Made of poly(methyl methacrylate) - acrylic glass
- Ideal gas exchange conditions
- Standard equipped with an analogue vacuum meter
- Operator - friendly pressure control
- Opening front window

INTERNAL DIMENSIONS	689 x 530 x 480 mm
DIMENSIONS OF THE FEED WINDOW	230 x 240 x 200 mm
DIMENSIONS OF THE FRONT WINDOW	680 x 270 mm
FEED WINDOW VALVES	2 pcs. / head diameter 9mm
PRESSURE INDICATOR	for feed window 0 - 0.1MPa
MATERIAL	Acrylic resin
GLOVES	1 pair + fixing o - rings

CS-GBC GLOVE BOX



CR-CS-GBC

DESCRIPTION

- Elimination of reinforcement bars provides excellent visibility
- Made of poly(methyl methacrylate) - acrylic glass

INTERNAL DIMENSIONS	290 x 190/390 x 390 mm
DIMENSIONS OF THE FRONT WINDOW	250 x 325 mm
VALVES	2 pieces. / head diameter 9mm
MATERIAL	Acrylic resin
GLOVES	1 pair + fixing o - rings

VSC-1000 GLOVE BOX



CR-VSC-1000

DESCRIPTION

- Elimination of reinforcement bars provides excellent visibility
- Made of poly(methyl methacrylate) - acrylic glass
- Ideal for use in an inert gas atmosphere
- Full size, diagonal side door
- High vacuum resistance
- Flow meter:
 - For the chamber: 1 piece. / (head diameter 9mm)
 - For the feed window: 1 piece

INTERNAL DIMENSIONS	834 x 270 (top)/430 (bottom) x 560 mm
DIMENSIONS OF THE FEED WINDOW	310 x 200 x 200 mm
THE CHAMBER, THE WINDOW DRAIN VALVE	1 piece / head diameter 9 mm
PRÓŻNIOMETR	1349 x 698 x 780 mm
GLOVES GLOVE PORT DOOR	1 pair 1 pcs.



PRESATURATION SYSTEM



CR-HF-PREPARE

DESCRIPTION

- Designed for use in small and sterile clean rooms
- Material: Stainless steel 1.4301/AISI 304, polished; thermoplastic polyurethane rubber wheels
- 2x buckets 8.5l
- Stainless steel dosing sieve
- Stainless steel mop holder

WIDTH	DEPTH	HEIGHT
330 mm	530 mm	310 mm

PRESATURATION SYSTEM WITH TROLLEY FRAME



CR-HF-PREPARE-311

DESCRIPTION

- Designed for use in small and sterile clean rooms
- Material: Stainless steel 1.4301/AISI 304, polished; thermoplastic polyurethane rubber wheels
- 2x 8.5l buckets in front; 2 additional 8.5l buckets at the back
- Stainless steel trolley
- Stainless steel dosing sieve
- Stainless steel mop holder

WIDTH	DEPTH	HEIGHT
590 mm	580 mm	900 mm

CLEANROOM PRESATURATION SYSTEM



CR-CART-001

DESCRIPTION

- Professional transport trolley for clean rooms such as laboratories, pharmaceutical industry, biotechnology or semiconductor production
- Made of stainless steel, corrosion resistant and easy to disinfectSmooth surface for easy cleaning
- Four sturdy castors for smooth movementErgonomic handle for comfortable manoeuvring
- Stable and robust construction

WIDTH	DEPTH	HEIGHT
900 mm	950 mm	600 mm



STAINLESS STEEL HANDLE, TELESCOPIC



DESCRIPTION

- Autoclavable, designed for sterile cleanroom areas
- The Quick - change System
- Designed for cleaning and disinfection of cleanroom floors, walls and ceilings up to ISO level 4
- Diameter: 45 mm
- Material: stainless steel 1.4301/AISI 304, plastic POM

CATALOG NUMBER	LENGTH
CR-HF-SET2070	1500 mm
CR-HF-SET2100	2000 mm

MOP HANDLE, ALUMINIUM



CR-HF-SA400

DESCRIPTION

- Long handle with extension
- Lightweight aluminium design
- Ideal for cleaning high ceilings
- The Quick - change System
- Designed for cleaning and disinfecting walls and ceilings in cleanrooms
- Diameter: 32 mm
- Length: 4000 mm
- Material: anodized aluminium (silver), polyethylene and PVC plastic (grey)

FOLDING MOP FRAME PLASTIC



CR-HF-KKV40

DESCRIPTION

- The Quick - change System
- Optimal for cleaning floors, walls and ceilings
- Designed for daily cleaning of floors, walls and ceilings in cleanrooms up to ISO 6
- Material: polypropylene
- Colour: grey/yellow

STAINLESS STEEL MOP FRAME



CR-HF-KEU40

DESCRIPTION

- The Quick - change System
- Autoclavable, perfectly suited to clean room cleanliness
- Recommended for cleaning and disinfecting cleanroom surfaces up to ISO level 5
- Material: stainless steel 1.4301/AISI 304, plastic POM



SINGLE-USE CLEANROOM MOP, STERILE



CR-HF-EF40-S

DESCRIPTION

- Disposable mop with pockets
- Highest quality cleaning ability thanks to special microfibre technology
- High performance, thanks to many absorbent inserts
- Fine and even fluid distribution on the surface
- Ergonomic handling thanks to ideal gliding properties
- Colour: white
- Material:
 - Front: 80% polyester microfiber, 20% polyester
 - Rear: 100% polyester fleece
- Absorption of fluids: ≥ 450% (225 ml) / right: 580% (290 ml)

MULTIPLE USE CLEANROOM MOP



CR-HF-ML40

DESCRIPTION

- High absorbency
- Large material volume for greater cleaning performance
- Bent edges for optimum cleaning in corners
- Designed for cleaning and disinfecting non - sterile areas
- Colour: white
- Material:
 - Front: 100% polyester microfibre
 - Rear: 100% polyester, knitted fabric
- Liquid absorption: ≥ 230% (310 ml) / standard value: 310% (420 ml)

CLEANROOM POLYESTER KNIT WIPES



CR-HF-K1-209-S

DESCRIPTION

- Robust double knit polyester fabric (100%)
- Lowest particle emission, completely decontaminated
- High absorbency
- Colour: white
- Weight of material: 145 g/m² (± 8 g/m²)
- Material thickness: 0,54 mm
- Sterility: gamma irradiation, SAL 10⁻⁶, according to ISO 11137
- Package: 1000 pieces

WIDTH	LENGTH	CLEANROOM CLASS
229 mm	229 mm	ISO 4



CLEANROOM BOOT S2



CR-24010-01-35-43

DESCRIPTION

- Effective protection against impacts and compression thanks to the aluminum toecap
- Triple Technogel® cushioning reduces foot fatigue
- Antibacterial and antifungal lining and inner sole
- ESD compliance ensures safe dissipation of electrostatic charges
- Nitrile outsole resistant to abrasion, oils, and chemicals
- Push-button strap fastening for quick adjustment and ease of use
- Size: 36 - 48

CLEANROOM BOOT



CR-51364-01-51-43

DESCRIPTION

- Color: white, ideal for cleanroom and hygienic environments
- Toe cap: aluminum, lightweight and durable
- DRYtech® insole: antibacterial, antifungal, antistatic
- PU outsole with "Manhattan" tread: abrasion-resistant, anti-slip
- Technogel® cushioning: effective shock absorption
- Size: 41 - 47

ESD FOOTWEAR FOR CLEANROOM WITH TOE CAP



CR-62291-01-90-43

DESCRIPTION

- ESD Cleanroom footwear with toecap – compliant with EN ISO 20345:2011, class S1 SRA
- Provides toe protection with an aluminium toecap and slip resistance
- Microfiber upper – lightweight, breathable, easy to clean, and hygienic
- Elastic fastening with cord and strap for quick adjustment
- Full ESD protection – resistance <math>< 35 \text{ M}\Omega</math> in accordance with EN IEC 61340-5-1
- Triple Technogel® cushioning system – joint protection and reduced foot fatigue
- Compliant with DGUV 112-191 – allows use of custom orthopedic insoles
- Perfect for industries: pharmaceuticals, electronics, biotechnology, precision manufacturing
- Size: 36 - 48



ESD CLEANROOM BAG



RE-HM-9161715

DESCRIPTION

- Electrostatic Discharge (ESD) protection – effectively neutralizes electrostatic charges and safeguards contents against damage.
- Made from low-lint, easy-to-clean materials that meet the requirements of controlled environment areas.
- Provides optimal space for technical documentation, tools, and measuring equipment. A load capacity of up to 10 kg ensures you can easily fit everything you need.
- Soft, adjustable shoulder straps ensure comfort even during prolonged use. The lightweight, durable design enhances the convenience of daily equipment transport.

DIMENSIONS	400 x 350 x 150 mm
MAXIMUM LOAD CAPACITY	10 kg
COLOR	Black
SURFACE RESISTANCE	$10^6 - 10^{10} \Omega$

ESD CLEANROOM BAG



RE-HM-9161208

DESCRIPTION

- Electrostatic Discharge (ESD) protection – effectively dissipates electrostatic charges, protecting sensitive devices and components.
- Made from low-lint, easy-to-clean materials, ensuring sterility in environments with elevated hygiene requirements.
- Provides optimal capacity without unnecessary weight – ideal for storing and transporting tools, documents, or measurement kits.
- Durable black ESD material, resistant to abrasion, dirt, and moisture, with high-quality finishing – the bag looks professional and performs accordingly.

EXTERNAL DIMENSIONS	300 x 200 x 80 mm
COLOR	Black
SURFACE RESISTANCE	$10^6 - 10^{10} \Omega$

ESD CLEANROOM WAIST HANGING BAG



RE-HM-9162616W

DESCRIPTION

- Electrostatic Discharge (ESD) protection – effectively dissipates electrostatic charges, protecting the contents.
- Ideal for cleanroom environments – made from materials compliant with cleanroom standards: low-lint, easy-to-clean, and resistant to contamination.
- Compact dimensions – allow convenient storage of essential items without restricting freedom of movement.
- White, sterile design – the light color makes it easier to monitor cleanliness and complements cleanroom clothing, emphasizing professionalism and attention to detail.
- Ready for operation – a perfect solution for companies that require rapid implementation in compliance with ESD standards.

DIMENSIONS	270 x 100 x 170 mm
COLOR	White
SURFACE RESISTANCE	$10^6 - 10^{10} \Omega$



REECO WORKSTATIONS - COMPLIANCE WITH CLEANROOM REQUIREMENTS (ISO 3-9)



WORKSTATION EQUIPMENT

- Reeco Premium table frame 1530 (RF-001-15375-9003)
- Rectangular table top ESD (RF-004-15375-7036 M)
- Vertical perforated frame 1530x1550 (RF-008-2750-9003)
- Panel with square perforation 750 (RF-014-0750-9003)
- Power strip hung on a bin rail (RF-LZ-16A9G-2.5-750-012)
- Adjustable shelf 750x300 (RF-011-0750-7021)
- Lamp/balancer rail 1500 (RF-009-2750-9003)
- Led slim lamp 1500 (RF-015-1500-7021-SL)



WORKSTATION EQUIPMENT

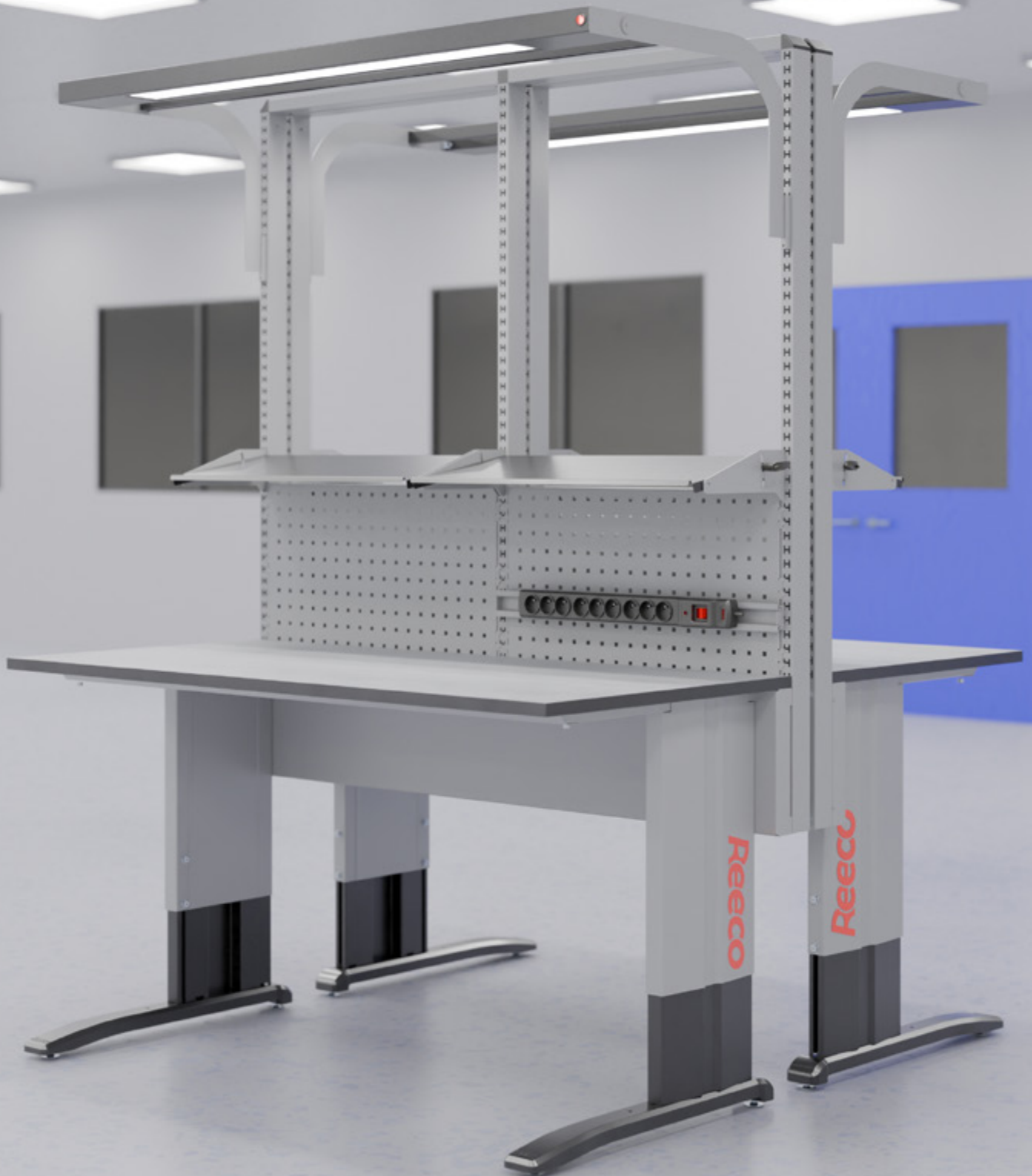
- Reeco Premium table frame 1200 (RF-001-12075-9003)
- Rectangular table top ESD (RF-004-12075-7036 M)
- Vertical perforated frame 900x900 (RF-008-09090-9003)
- Panel with square perforation 900 (RF-014-0900-9003)
- Shuko power strip (RF-LZ-10A8G-3_W0213)
- standard LED illuminated shelf 900 (RF-017P-0900-7021_1)
- LCD holder (RF-025-VESA-9003)
- Premium footrest 1200 (RF-021-1200-9003)



WORKSTATION EQUIPMENT

- Reeco Premium table frame 1800 (RF-001-18375-9003)
- Rectangular table top ESD (RF-004-18375-7036 M)
- Upper shelf 1830 (RF-007-18330-9003)
- LCD holder (RF-025-VESA-9003)
- 80 wheel ESD with break (M080LCWPA-BK-ESD)
- 80 wheel ESD (M080LCWPA-ESD)

REECO WORKSTATIONS CERTIFIED FOR USE IN CLEANROOM ENVIRONMENTS



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