

Avionics Laboratory/PCB Level

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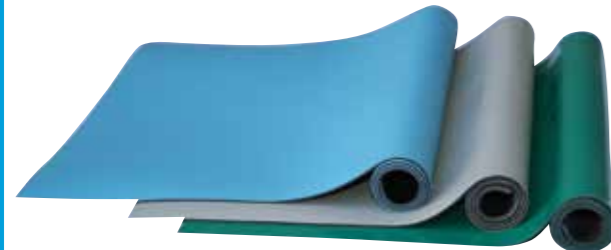
BENCH & TABLE MATTING

Dual Layer Rubber Mat

- The ultimate dual-layer rubber bench mat provides an easy to clean dissipative surface in either grey or blue. The black conductive layer beneath forms a good non-slip layer on the bench. Chemical and heat resistant. Green version is ideal to designate a lead-free work area.
- NOTE: continuous runs of static dissipative materials should be grounded at 1.8m intervals to ensure proper dissipation rates. Grounding hardware is to be ordered separately.

Electrical Properties

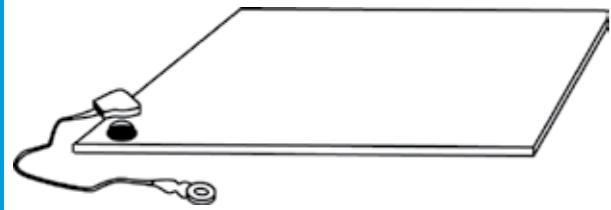
- Upper Layer (dissipative): $10E7 \sim 10E9$ ohms,
- Bottom Layer (conductive): $10E3 \sim 10E5$ ohms,
- Volume Resistance: $10E7 \sim 10E10$ ohms
- Abrasion Rate: 0.02g/c



Part No.	Description	Colour
HRM 060/10B	10m Roll 600mm wide	blue
HRM 060/10G	10m Roll 600mm wide	grey
HRM 090/10B	10m Roll 900mm wide	blue
HRM 090/10G	10m Roll 900mm wide	grey
HRM 090/10GR	10m Roll 900mm wide	green
HRM 120/10B	10m Roll 1200mm wide	blue
HRM 120/10G	10m Roll 1200mm wide	grey

TABLE MAT KITS

Convenient table mat kits, supplied with one fitted stud and one common point ground cord (HGC 8431).



Part No.	Description	Colour
HTM 060/09B	0.6m x 0.9m	blue
HTM 060/09G	0.6m x 0.9m	grey
HTM 060/09GR	0.6m x 0.9m	green
HTM 060/12B	0.6m x 1.2m	blue
HTM 060/12G	0.6m x 1.2m	grey
HTM 060/12GR	0.6m x 1.2m	green

UNIVERSAL SNAP KIT

Can be installed with a screwdriver.



Part No.	Description
80014	Universal Snap Kit

SNAP STUDS

Cost saving snap studs for where larger quantities are required. A riveting tool is required to install these studs.



Part No.	Description
03-DUR-550	Female 10mm Socket
03-DUR-550A	Fixing Post

SNAP STUD ADAPTERS



Converts 10mm stud to 10mm socket



Converts 10mm socket to 10mm stud.

Part No.	Description
80010	Stud to Socket Adapter
80012	Socket to Stud Adapter

FIELD SERVICE KIT

This mat is ideal for field service work, providing a temporary ESD work surface and also can be used to protect a PCB if wrapped around it.



Part No.	Description	Colour
HSK-1	600 x 600mm	Red

BENCH GROUND PLATE WRIST STRAP GROUND

An under-bench wrist strap ground for two wrist straps. Fitted with a 3.0m cord, terminated with a ring terminal. Two 10mm park studs



Part No.	Description
HWSG 01	Wrist Strap Ground, metal plate

BENCH GROUND BOX WRIST STRAP GROUND

An under-bench wrist strap ground for two wrist straps. Fitted with a 3.0m cord, terminated with a ring terminal. One 10mm park stud.



Part No.	Description
HWSG 02	Wrist Strap Ground Box

DOME GROUND CORD

For grounding of mats. Fitted with a dome shaped, low profile top. 3.0m cord terminated with ring terminal. Normally used in conjunction with the HWSG 02 for bench mats.



Part No.	Description
HGC 8430	Dome Ground Cord

COMMON POINT GROUND CORD

A popular method of grounding mats in a simple manner. Plugs onto the stud on a mat and provides two sockets for wrist straps.



Part No.	Description
HGC 8431	Common Point Ground Cord

MAINS GROUNDING PLUG

A convenient plug for earthing to mains ground. With earth screw to accept ring terminals.



Part No.	Description
463 SAS	Mains Ground Plug

WRIST STRAP

Metal wrist band for superior skin contact and durability. Adjustable system leaves no extra link loose. Fitted with 10mm snap.



Part No.	Description
60106	Metal Wrist Band (Band only)
CORD 6PL	Coil Cord 1meg (see image at bottom of page)

PREMIUM QUALITY WRIST STRAP

Premium quality soft elastic fabric with silver coated filament. Easily adjusted for size. The standard choice for production lines. Includes cord (3m extended).



Part No.	Description
HWRS 8001	Premium Wrist Strap

CAM-LOCK WRIST STRAP

Cam-lock adjustable economy wrist strap of high quality. Strap interior with stainless steel/nylon filament for increased skin contact. Includes cord (2.1m extended).



Part No.	Description
HWRS ASS	Economy Wrist Strap

REPLACEMENT COIL CORDS

Various options of coil cords fitted with 1meg resistors in cord.



Part No.	Description	Length
CORD-6FT-P1	10mm Snap to Banana Plug	1.8m
CORD-6FT-P2	10mm Snap to Snap	1.8m
60332	4mm Snap to Banana Plug	3.6m
60316	10mm Snap to Banana Plug	3.6m

ESD DUST POLYCOTTON COAT

A range of ESD polycotton coats with carbon fibre thread available for production facilities.



Blue Part No.	White Part No.	Description	Size
HCPC-S	HCPC-W-S	Polycotton Coat	S
HCPC-M	HCPC-W-M	Polycotton Coat	M
HCPC-L	HCPC-W-L	Polycotton Coat	L
HCPC-XL	HCPC-W-XL	Polycotton Coat	XL
HCPC-2XL	HCPC-W-2XL	Polycotton Coat	2XL
HCPC-3XL	HCPC-W-3XL	Polycotton Coat	3XL
HCPC-4XL	HCPC-W-4XL	Polycotton Coat	4XL
HCPC-5XL	HCPC-W-5XL	Polycotton Coat	5XL
HCPC-6XL	HCPC-W-6XL	Polycotton Coat	6XL
HCPC-7XL	HCPC-W-7XL	Polycotton Coat	7XL

BENCHTOP ZERO VOLT IONISER

- Voltage offset controlled to ± 3 Volts typical
- Features steady state DC ionization and Desco EMIT's patented (US Patent #4,974,115) Sense Feedback balancing
- Rapid Access Maintenance
- Provides automatic balancing of the ionization system
- Sealed "Thru-Tunnel" air flow design



Part No.	Description
50670	Benchtop Zero Volt Ioniser

CLEANROOM VACUUM – HEPA TYPE

ESD Safe Cleanroom vacuum which exceeds Cleanroom Class 100,000 standards. The Omega cleanroom vacuum comes standard with a true HEPA cartridge filter, 10' ESD safe hose, shoulder strap, 16" ESD safe rubber flexible gooseneck, and power cord.



See also page 176.

Part No.	Description
VACOMEGAS2ECRH	Cleanroom Vacuum

ESD PU COATED GLOVES

Polyurethane coating on palm and fingers for delicate handling of components.



NOTE: glove on left is top fit, glove on right is palm fit.

Part No.	Description	Size
HPFG-900S	Small palm fit Glove	M
HPFG-900M	Medium palm fit Glove	L
HPFG-900L	Large palm fit Glove	XL
HPFG-900XL	Extra large palm fit Glove	S
HTFG-900S	Small top fit Glove	M
HTFG-900M	Medium top fit Glove	L
HTFG-900L	Large top fit Glove	XL
HTFG-900XL	Extra large top fit Glove	2XL

PREMIUM VELCRO HEELSTRAP

American heel strap with non-marking interior. Fastening system with velcro for quick fitting. Double heel cup offers two wear surfaces. 1 meg resistor. RG 106 to 107



Part No.	Description
70030	Premium Velcro Heelstrap

HI-VIS PREMIUM HEELSTRAP

Hi-Vis, three layer, American premium quality heel strap. Hook and stretch loop fastening system for maximum comfort. RG 106 to 107



Part No.	Description
70007	Hi-Vis Premium Heelstrap

DISPOSABLE HEELSTRAPS

Disposable heel straps with self adhesive section adhering to the underside of heel.

Comes in pack of 100.



Part No.	Description
70001	Disposable Heelstrap
249220	Wall-mounted Dispenser

STICKY FLOOR MATS

Sixty-layer sticky mats for entrances to controlled work areas. Removes contamination from heels and soles of shoes, wheels of trolleys, etc.



Part No.	Description	Size
HSM 3645	Large Sticky Mat	36" x 45"
HSM 2436	Small Sticky Mat	24" x 36"

ESD VINYL FLOORING

- Polyflor static dissipative floor covering is a homogenous, vinyl material available in a 2m wide roll
- Resistance is <109
- Various colours available
- Applied with conductive glue, copper tape in grid and welded joints
- Inspection and measurement of area is required prior to quotation



Part No.	Description
-	Please contact our sales team for a quote

CONDUCTIVE TOOLBOX

Convenient toolbox for electronic production line applications with tote tray.



Part No.	Description	Size
116-632	Toolbox	368 x 184 x 134mm

PREMIUM ESD CHAIRS

- A variety of colours including custom embroidery available
- Seat Dimensions: 490 x 460mm
- Seat Height Range: depending on the base option from 470 up to 900mm
- Material Back: ESD Poly Mesh
- Material Seat: ESD Fabric
- Material Base: Polished aluminium
- Grounding chain included
- Height adjustable arms optional
- Seat slider optional
- Glides instead of castors optional



Part No.	Description	Seat Height
HM-ESDC-PDT ESD	Drafting Chair tall, with foot ring	640-900mm
HM-ESDC-PDS ESD	Drafting Chair	580-780mm
HM-ESDC-POT ESD	Office Chair tall	500-630mm
HM-ESDC-POS ESD	Office Chair	470-550mm

CONDUCTIVE FLOOR PAINT

- Grey conductive floor paint in accordance with MIL-HDBK-263-B for manufacturing and test areas.
- 105 Ohms RTG
- Coverage: 7.2-9.6m² per liter per coat. Two coats recommended



Part No.	Description	Size
71017	Floor Paint	19L

ESD STATGUARD FLOOR FINISH

- Static dissipative (Rp 107-108 ohms)
- Can be applied on many hard surfaces or sealed floors including vinyl, VCT, linoleum, rubber, asphalt, and concrete
- Easy to apply: improves productivity
- Produces beautiful, long lasting, durable finish, but easier to strip
- UL classified for slip resistance only



Part No.	Description	Size
71046	Floor Finish	10L

CONDUCTIVE STORAGE BINS

With rear clip for wall rail, fitting most rail systems.



Part No.	Description	L	W	H
7804.715	Conductive Bin	96mm	100mm	50mm
7804.719	Conductive Bin	175mm	100mm	75mm
7804.721	Conductive Bin	235mm	145mm	125mm
7804.725	Conductive Bin	350mm	200mm	200mm
7804.727	Conductive Bin	500mm	300mm	200mm

ESD CHAIRS

- A variety of colours including custom embroidery available
- Seat Dimensions: 490 x 460mm
- Seat Height Range: depending on the base option from 470 up to 900mm
- Material Back: ESD Poly Mesh
- Material Seat: ESD Fabric
- Material Base: Polished aluminium
- Grounding chain included
- Height adjustable arms optional
- Seat slider optional
- Glides instead of castors optional



Part No.	Description	Seat Height
HM-ESDC-EDT ESD	Drafting Chair tall, with foot ring	640-900mm
HM-ESDC-EDS ESD	Drafting Chair	580-780mm
HM-ESDC-EOT ESD	Office Chair tall	500-630mm
HM-ESDC-EOS ESD	Office Chair	470-550mm

ESD Test Equipment

COMBINATION TESTER

A 3-state touch tester designed for fast, frequent testing of ESD personnel grounding devices. The Combo Tester incorporates a unique dual test circuit design which improves accuracy of testing and eliminates the need for separate wrist strap and foot grounder test units. The 99000 is equipped with a 750 Kiloohm - 35 Megohm circuit, ideal for testing of wrist straps and footwear.

Test parameters are factory set but can be adjusted to match your own specifications. The Combo Tester is very simple to operate. A green light signals the user that everything is OK. A red light and an audible indicator means that the circuit resistance is either too low or too high.



Part No.	Description
99000	Combo Tester
99004	Combo Tester with Stand

WRIST STRAP AND FOOTWEAR TESTERS

- Operates off 9V battery
- Range: 900K – 35meg ohm
- A wall plate/sign is available to mount the tester at a central point. For heelstraps, a stainless steel footplate and ground cord is available as shown below.



Part No.	Description
HWT8401	Wrist Strap and Heel Strap Tester

WALL AND FOOT PLATE

Convenient wall plate holds HWT8401 tester and a ground cord connects the tester to the stainless steel floorplate for footwear testing. Ground cord supplied with the footplate.



Part No.	Description
HWP 8401	Wall Plate for Wrist Tester
HWP 8404	Foot Plate with Ground Cord

DIGITAL SURFACE RESISTANCE METER KIT

- Measures resistance point-to-point (Rtt) and resistance-to-ground (Rtg) of worksurfaces, flooring systems, garments, packaging, and other materials in accordance with IEC 61340-2-3 and IEC 61340-5-1
- Determines if a surface is conductive, dissipative or insulative for ESD control applications in electronics manufacturing or handling environments
- Large OLED display shows resistance mantissa and exponent, temperature, relative humidity and test voltage
- Internal memory stores and recalls up to 100 measurements. Captures resistance, temperature, humidity and test voltage
- Measurement stability modes set the 15-second electrification period for test requirements
- Electrode spacers spaces the 2.27kg electrodes to 25cm and 91cm for resistance point-to-point (Rtt) measurement requirements of IEC 61340-2-3 and IEC 61340-4-1
- Measurement location labels (pack of 25) labels and tracks areas and materials measured for surface resistance
- Resistance range of <math><1.0 \times 10^3</math> to $>1.0 \times 10^{12}$ Ohms
- Under load voltages of (10V or 100V \pm 5%)



19290 Kit Includes:
 1x Digital Surface Resistance Meter;
 2x Test Leads, 1.5m Length;
 2x 2.27 kg Electrodes;
 1x Electrode Spacer, 25cm; 1x Electrode Spacer, 91cm;
 4x AA Alkaline Batteries; 1x Ground Plug Adapter; 1x Gator Clip;
 25x Measurement Location Labels; 1x Plastic Carrying Case;
 1x Certificate of Calibration

Part No.	Description
19290	Digital Surface Resistance Meter Kit
19291	Digital Surface Resistance Meter
222002	Concentric Ring Probe
222003	Concentric Ring Probe Kit
222633	Shielded Test Leads, 1 Pair
222634	2.27 kg Electrodes, 1 Pair

SURFACE RESISTANCE CHECKER

- Automatically selected 10V and 100V test voltage
- Fitted with a built in 15-second timer to help user to comply with EN guidelines
- Range: 103 to 1012ohms
- Built-in parallel electrodes



Part No.	Description
225717	Surface Resistance Checker

ESD Cleaning

DOUBLE ENDED ESD BRUSHES

ESD safe. Hog bristle is clamped either end of 125mm tube. One end is chisel shaped for difficult access areas.



Part No.	Description	Bristle Length
1005CK	Double End Brush	13 and 6mm
1010CK	Double End Brush	6 and 4.5mm

APPLICATOR STYLE ESD BRUSHES

ESD Safe. Available in stiff hog bristle or soft horsehair.



Part No.	Description	Width
403-239	Applicator Brush, soft	19mm
403-240	Applicator Brush, stiff	19mm

LARGE SCRATCH ESD BRUSH

ESD safe. Stiff hog bristle is perfect for board rework.



Part No.	Description	Brush Face
36CK	Large Scratch Brush	22 x 57mm

SMALL SCRATCH ESD BRUSH

ESD safe. Stiff hog bristle is ideal for cleaning applications.



Part No.	Description	Brush Face
30CK	Small Scratch Brush	9 x 35mm

FLUX ESD BRUSH

ESD safe. Hog Bristle.



Part No.	Description	Bristle Length
WA12CK	Flux Brush	9 x 22mm

CONDUCTIVE PLASTIC BRUSHES

For general PCB cleaning. Plastic handle and Nylon bristles.



Part No.	Brush Face	Bristle Length
SRB0851	4 x 15mm	18mm
SRB0852	10mm Diameter	18mm

CONDUCTIVE PLASTIC BRUSH

Conductive plastic brush for general PCB cleaning.



Part No.	Description	Bristle Length
HCB-B	Conductive Brush	9 x 35mm

SOLVENT PUMP BOTTLE

One touch pump with air tight check valve, preventing cross contamination of solvent returning into dispenser bottle. ESD safe, 109 to 1010.



Part No.	Description	Size
MA 618	Pump Bottle	6 fl.oz.

KIMWIPES

Lint free, single ply paper wipes ideal for screens and filters.



Part No.	Description	Quantity
KW 4103	Kimwipes	200

WIPES

Lint free, single ply paper wipes ideal for screens and filters.



Part No.	Description	Quantity
STI 200	Safetiss Wipes	200

LINT FREE WIPES

- Material: Non-woven blend of polyester and lyocell
- ESD Category: Static neutral when used with liquids
- Strength: Excellent, both wet and dry
- 350 x 350mm



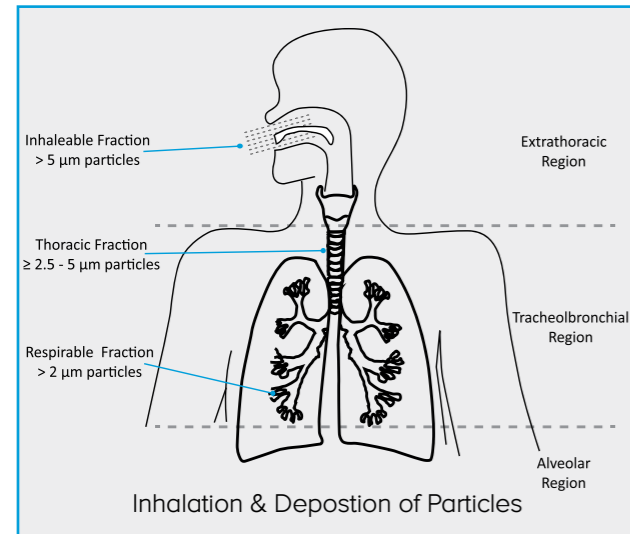
Part No.	Description	Quantity
SCT-2357-100	Lint Free Wipes	100

Purex Fume Extraction

Fume Extraction

Soldering fumes from hand soldering stations means a worker has to be in close proximity to the fumes. These are the workers that need the best protection. With ongoing health concerns such as chronic asthma, acne, and other issues it is critical to provide a safe work environment.

Solutions to extract from 1 station to over 20. A full line of capture options include stainless-steel arms, clear hood cowls, pen nibs and screwed bench brackets



FLEXIBLE ARM KIT 38MM

38mm flexible stainless steel arm with fixed pen nib and screwed bench bracket



Part No.	Description
100294	Purex 38mm Flexible Arm Kit

FLEXIBLE ARM KIT 50MM

50mm flexible stainless steel arm with fixed large clear hood and clamped bench bracket



Part No.	Description
100292	Purex 50mm Flexible Arm Kit

EDSYN SMOKE EXTRACTOR

- Desktop solder smoke absorber that can be mounted horizontally or vertically
- A third mounting position is also available with an optional arm stand



Part No.	Description
CE 174-350	Benchtop Fume Extractor
CE 174-905	Filter Front Rotating (Pack of 5)
CE 174-906	Filter Rear Stationery (Pack of 5)

UNIVERSAL TIP FUME EXTRACTION KIT

- 1 x 1.5m x 5.5mm ID x 1.5mm wall clear silicone hose
- 1 x screw in Adapter (8mm hose, M10)
- 5 x 8mm \varnothing hose clips
- 1 x universal iron stand
- 1 x soldering iron stand
- 1 x cup standard iron
- 1 x cup metal iron
- 1 x extraction tube clip weller
- 1 x extraction tube clip metal/mini weller
- 1 x extraction tube strap universal
- 1 x 6mm \varnothing x 100mm extraction tube weller
- 1 x 6mm \varnothing x 135mm extraction tube metal
- 1 x 6mm \varnothing x 225 extraction tube universal



Part No.	Description
300001	Universal Tip Fume Extraction Kit

HOSE KIT

2m x 50mm flexible hose with 2 connecting cuffs



This Set is also included in all the other Connection Kits.

Part No.	Description
120117	Purex Hose Kit

FLEXIBLE ARM KIT 38MM

38mm flexible stainless steel arm with conical cowl, pen nib and clamped bench bracket



Part No.	Description
100295	Purex 38mm Flexible Arm Kit

FLEXIBLE ARM KIT 50MM

50mm flexible stainless steel arm with fixed clear hood cowl and clamped bench bracket



Part No.	Description
100299	Purex 50mm Flexible Arm Kit

HAKKO SMOKE ABSORBER

- Desktop solder smoke absorber that can be mounted horizontally or vertically
- A third mounting position is also available with an optional arm stand



Part No.	Description
FA400	Hakko Smoke Absorber
A1001	Filters Set (Pack of 5)

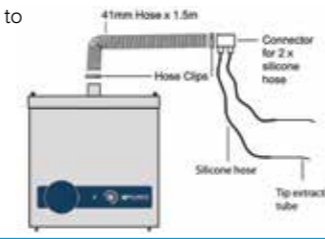
PUREX ANALOGUE CONTROL FUME EXTRACTION SYSTEMS



2TIP 230V / 170m³/h

- Run LED – signals when machine is on
- Highest grade HEPA and carbon technology
- Quiet in operation
- Simple to install and easy to relocate
- Ideal for 2 soldering tips

- Included:
- Unit
 - Main and Pre-Filter
 - Connection Kit



Part No.	Description
072120	2TIP Analogue Tip Extraction System

FUMECUBE LITE 230V / 170m³/h

- Run LED & speed control
- Highest grade HEPA and carbon technology
- Adjustable airflow
- Quiet in operation
- Simple to install / easy to relocate

- Included:
- Unit
 - Main and Pre-Filter
 - Connection Kit(s) 100294

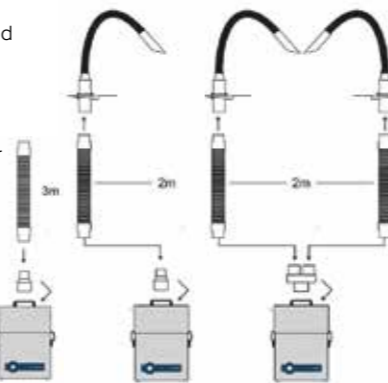


Part No.	Description
072082	Fumecube Lite Single Arm
072083	Fumecube Lite Dual Arm

FUMECUBE MAX 230V / 170m³/h

- VariColour filter blocked warning system
- Highest grade HEPA and carbon technology
- Automatic electronic flow control – maintains a constant extraction rate even as the filter blocks
- Quiet in operation
- Simple to install and easy to relocate

- Included:
- Unit
 - Main and Pre-Filter
 - 1 Connection Kit (various options)

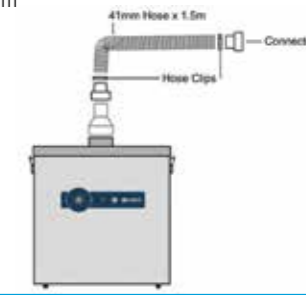


Part No.	Description
072142	Fumecube Max Single Arm
072144	Fumecube Max Dual Arm
072140	Fumecube Max Hose

3-15TIP 230V / 200m³/h

- Filter blocked warning system
- Highest grade HEPA and carbon technology
- Quiet in operation
- Simple to install and easy to relocate
- Up to 15 soldering tips

- Included:
- Unit
 - 1 Main and 2 Pre-Filters
 - Connection Kit 072300



Part No.	Description
072300	3-15TIP Analogue Tip Extraction System

FUMECUBE 230V / 170m³/h

- VariColour filter blocked warning system
- Highest grade HEPA and carbon technology
- Automatic electronic flow control – maintains a constant extraction rate even as the filter blocks
- Quiet in operation
- Simple to install and easy to relocate

- Included:
- Unit
 - Main and Pre-Filter
 - Connection Kit 100295



Part No.	Description
072066	Fumecube Single Arm
072065	Fumecube Dual Arm

FUMECUBE PRO 230V / 170m³/h

- VariColour filter blocked warning system
- Highest grade HEPA and carbon technology
- Automatic electronic flow control – maintains a constant extraction rate even as the filter blocks
- Quiet in operation
- Simple to install and easy to relocate

- Included:
- Unit
 - Main and Pre-Filter
 - Connection Kit 100295



Part No.	Description
072650	Fumecube Pro Single Arm
072600	Fumecube Pro Dual Arm

JBC Soldering Equipment

JBC CD-2BQE SOLDERING STATION 230V

- For general electronics jobs
- Features a large back-lit graphic display. Any changes to the original setting can be easily made via menu on the display.
- Incorporates a USB Connector (Type B) to update station software and create graphs
- All settings can be locked by PIN
- Peak Power: 130W / 23.5V
- Temperature Range: 90-450°C
- Included: Control Unit CD and Handpiece T245-A
- Cartridges C245-903 & C245-741 not included



Part No.	Description
CD-2BQE	Digital Soldering Station – STD Handpiece

JBC CS-2E ELECTRIC DESOLDERING STATION 230V

- Desoldering station with electric suction system
- Incorporates a USB Connector (Type B) to update station software and create graphs
- Flow Rate: 9 SLPM
- Peak Power: 40 W / 23.5V
- Temperature Range: 180°-450°C
- Included: Control Unit CSV, MS-A Electric Desoldering Module, DS360-A Micro Desoldering Iron with Tips C360-002 and C360-004



Part No.	Description
CS-2E	Electric Desoldering Station

JBC DDSE / DDVE DESOLDERING STATION 230V

- Complete solution to rework circuits, manages two tools simultaneously, compatible with ten different tools
- Peak Power: 150W per tool
- Temperature: 90-450°C
- Flow Rate: 9 SLPM / 15SLPM

- Included:
- Control Unit DDE
 - Desoldering Module MSE-A
 - Handles T245-A and DR560-A
 - Stands AS-SE and DR-SE
 - Tip Cleaner CL8499



Part No.	Description
DDSE-2QC	2 Tools Electric DDE Station
DDVE-2QC	2 Tools Pneumatic DDE Station

JBC METAL BRUSHES

For more in depth cleaning of the tips and cartridges



Part No.	Description
CL6217	Metal Brush narrow
CL8973	Metal Brush square for NAST Station
CL6220	Metal Brush wide

JBC CP-2QE MICRO TWEEZER STATION 230V

- For soldering and rework SMT components with Micro Tweezers
- Incorporates a USB Connector (Type B) to update station software and create graphs
- Peak Power: 80W / 23.5V
- Temperature Range: 90-450°C
- Included: Control Unit CP and AM120-A adjustable Micro Tweezers
- Cartridges C120 not included



Part No.	Description
CP-2QE	Micro Tweezer Station

JBC RMSE / RMVE REWORK STATION 230V

- Quickest and safest complete solution to repair and rework electronic circuits
- Can also be used for cleaning pads in SMD circuits
- It is composed by stackable modules and all the necessary accessories to make your job easier

Included:

- Control Units DDE and JTSE
- Stands AD-SE, JT-SE and DR-SE
- Desoldering Iron DR560-A
- Handpiece T245-A
- MSE-A Suction Module
- CL9885 Tip Cleaning Stand
- Nozzles JN2015, JN2012, JN2020, C560-005 and C560-013
- Extractor Desk with 3 Extractors, 5 Protectors and 2 Tripods
- Cartridge Holder SCH-A, Thermocouple PH218, Hose Set, Kapton Tape PH217, Pick & Place T260-A



Part No.	Description
RMSE-2QE	Digital Electric Rework Station
RMVE-2QE	Digital Pneumatic Rework Station

JBC CLEANING SPONGES

- Softest cleaning method to eliminate excess in any soldering or rework job
- Allows to maintain tips continuously clean by reducing wear
- Designed to be placed into the tip wiper. This way you just need one hand to use it.
- S0354 is also supplied with the tip cleaning stand



Part No.	Description
S7751	Sponge 46 x 37mm
S0354	Sponge 36 x 69mm
S6169	Sponge 58 x 58mm

JBC CL6210 BRASS WOOL

- Very effective cleaning method.
- Leaves a small layer of solder on the tip preventing oxidation between cleaning and reworking.



Part No.	Description
CL6210	Brass Cleaning Wool

JBC C245 SERIES TIPS FOR T245 STANDARD HANDPIECE

- The C245 cartridge range is the widest one of JBC with many shapes, sizes and special models.
- They are appropriate for general soldering purposes and they are perfect for both SMD components or for applications with high power requirements such as ground plane soldering.



Part No.	Description	Part No.	Description	Part No.	Description	Part No.	Description
C245-029	0.4mm Bent Conical	C245-030	0.3mm Conical	C245-032	0.4mm Conical	C245-126	0.4mm Bent Conical
C245-259	1.5mm Bent Conical	C245-260	2mm Bent Conical	C245-444	1.2mm Chisel	C245-731	0.3mm Chisel
C245-741	2.4mm Chisel	C245-742	0.8mm Chisel	C245-903	1mm Conical	C245-906	0.7mm Chisel
C245-907	1mm Chisel	C245-908	1.5 Chisel	C245-930	0.5mm Conical	C245-931	2.7mm Mini Spoon
C245-938	3.8mm Mini Spoon	C245-939	6mm Knife	C245-965	1.9mm Mini Spoon	C245-966	6.6mm Chisel
C245-041	1mm Conical	C245-052	4.9mm Dome	C245-053	3.8mm Dome	C245-054	6.5mm Dome
C245-119	1mm Teflon Conical	C245-121	13mm Scraper	C245-138	12mm Knife	C245-150	Chip Removal
C245-301	8.8mm Chamfered	C245-753	Chisel Nickel	C245-757	Chip Removal	C245-758	Chip Removal

Hakko Soldering Equipment

HAKKO FX888D DIGITAL SOLDERING STATION WITH IRON ESD SAFE

- Digital model in an analog-model price bracket
- Small footprint only 100mm (W) x 120mm (D)
- Simple and easy operation with only two operation buttons of UP and ENTER in the center
- Digital Display – Makes it easy to check the set temperature at a glance
- Password Function – Settings can be locked using a password to prevent them from being changed unexpectedly. Of course, it is possible to restrict all setting changes or prevent users from switching to particular modes.
- Preset Mode – Convenient feature to change the set temperature. Simply select the desired temperature from a selection of preset temperatures registered in advance. Up to five preset temperatures can be registered.
- Adjustment Mode – Temperature adjustment is an essential part of any strict quality control system. With the adjustment mode you can adjust the tip temperature to match the set temperature in case that there is a difference between those temperatures due to tip shape, heater replacement or other factors.



Part No.	Description
FX888D	Digital Soldering Station & Iron excl. Tip

HAKKO FX951 DIGITAL SOLDERING STATION WITH IRON ESD SAFE

- The new standard for lead-free soldering utilizing a 70W composite tip
- Rapid thermal response accurately maintains tip temperature
- 84 different tip profiles available
- Vertical, small foot print ESD safe design
- "Supervisor" card control of parameter settings
- Selectable shut-down and sleep modes to extend tip life and reduce oxidation
- Optional anti-bacterial coloured sleeves for quick tip selection
- Additional Nitrogen systems available for low flux soldering



Part No.	Description
FX951	Digital Soldering Station & Iron excl. Tip

HAKKO FX838 DIGITAL HEAVY DUTY SOLDERING STATION WITH IRON ESD SAFE

- The new standard for lead-free soldering utilizing a 70W composite tip
- Rapid thermal response accurately maintains tip temperature
- 84 different tip profiles available
- Vertical, small foot print ESD safe design
- "Supervisor" card control of parameter settings
- Selectable shut-down and sleep modes to extend tip life and reduce oxidation
- Optional anti-bacterial coloured sleeves for quick tip selection
- Additional Nitrogen systems available for low flux soldering



Part No.	Description
FX838	Digital Heavy Duty Soldering Station & Iron excl. Tip

HAKKO FX950 ANALOGUE SOLDERING STATION WITH IRON ESD SAFE

- The excellent thermal recovery allows setting lower preset temperatures
- It is also useful for lead-free soldering which requires higher melting temperatures
- The composite tip is a soldering tip integrated with heating element and sensor. Despite its highly compact design, the tip offers superior thermal responsivity and greatly improved thermal recovery.
- 85 variations of HAKKO tips are available for various types of soldering from IC modifications to soldering of power sections.
- The lock key can lock the present temperature
- Digital offset makes temperature correction easy



Part No.	Description
FX950	Analogue Soldering Station & Iron excl. Tip

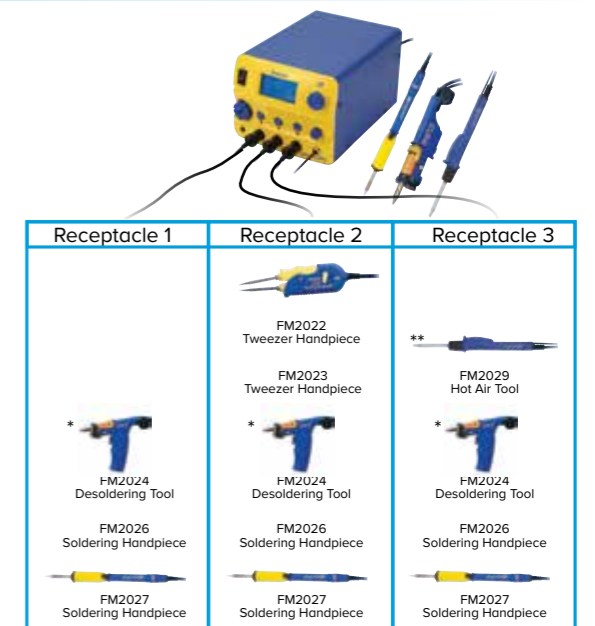
HAKKO FM206 3 PORT DE-/SOLDERING STATION ESD SAFE

- Multi-station enabling soldering, desoldering and SMD rework
- Single-nozzle hot air handpiece comes as standard equipment
- Graphic LCD display enables easy viewing and operation
- Features expandability in which the handpiece can be switched as needed for added functions
- Comes with hot air-type rework functions which expands the range of repair of SMD parts with hot air handpiece

- Included:
- FM2024 Desoldering Tool
 - FM2029 Hot Air Tool
 - FM2027 Soldering Handpiece

Optional additional handpieces available.

*FM2024 can be connected to FM206 to all 3 receptacles, but it can only be used with one receptacle at a time
 **FM2029 can only be used with FM206 receptacle 3



Part No.	Description
FM206	3 Port Soldering/Desoldering Station

HAKKO FM204 DESOLDERING STATION ESD SAFE

- New design with reduced distance between the nozzle end and filter pipe prevents clogging of sucked solder
- Easy maintenance
- Detachable handle allows two-ways use – Gun or Straight
- Equipped with a nozzle lock function
- With sleep function
- Auto power shut-off function
- Excellent thermal recovery with nozzle integrated with heater and sensor



Part No.	Description
FM204	Lead-Free Desoldering Station

HAKKO FM203 DUAL PORT DE-/SOLDERING STATION ESD SAFE

A single station plays multiple roles: Soldering, desoldering, and SMD rework

- Two handpieces can be selected in various combinations
- Supplied with one FM2027 soldering handpiece as standard
- A wide range of handpieces available
- Power save function
- Auto power shut-off function
- Two connection ports for simultaneous use of two handpieces
- N2 system can be incorporated with an optional handpiece (FM2026)
- Selectable buzzer and alert ON/OFF setting
- Excellent thermal recovery with the use of composite tip

Compatible Handpieces:

FM2022	FM2026**
FM2023	FM2027
FM2024*	

*FM2024: Each handpiece needs a desoldering control box and compressor
 **FM2026: Each handpiece needs an N2 generator (FX780), flowmeter (FX791), compressor, regulator etc.



Part No.	Description
FM203	Dual Port De-/Soldering Station

HAKKO FR400 HEAVY-DUTY DESOLDERING STATION ESD SAFE

- Heavy-duty desoldering station with built-in vacuum pump
- Quick and secure desoldering even on high heat capacity and high heat dissipation PWB with super power
- Secure desoldering with valve function
- Reduced solder clogging through anti clogging function



Part No.	Description
FR400	Heavy-Duty Desoldering Station

Various Soldering

WELLER MAINS MAGNASTAT IRONS

Temperature controlled mains soldering irons for all day use on production lines where static sensitive components are not involved.



Part No.	Description
W60D	60W Magnastat Iron
W100D	100W Magnastat Iron

QUICK BRAID DESOLDER WICK – GENERAL PURPOSE

- Cleaner, faster, more consistent
- Oxide-free clean copper
- More strands of copper (more surface area) per square inch
- Designed to leave residue which is environmentally safe
- Uses pure type 'R' resin flux conforming to all the requirements of Mil-F-14256F, Type 'R' and ANSI/J-STD-004
- Packaged in 5, 25 and 100 foot lengths



Part No.	Width	Length	Colour
Q-A-5	0.63mm	1.5m / 5ft	Silver
Q-B-5	1.27mm	1.5m / 5ft	Gold
Q-C-5	1.90mm	1.5m / 5ft	Green
Q-D-5	2.54mm	1.5m / 5ft	Blue
Q-E-5	3.17mm	1.5m / 5ft	Brown
Q-A-25	0.63mm	7.6m / 25ft	Silver
Q-B-25	1.27mm	7.6m / 25ft	Gold
Q-C-25	1.90mm	7.6m / 25ft	Green
Q-D-25	2.54mm	7.6m / 25ft	Blue
Q-E-25	3.17mm	7.6m / 25ft	Brown
Q-A-100	0.63mm	30.5m / 100ft	Silver
Q-B-100	1.27mm	30.5m / 100ft	Gold
Q-C-100	1.90mm	30.5m / 100ft	Green
Q-D-100	2.54mm	30.5m / 100ft	Blue
Q-E-100	3.17mm	30.5m / 100ft	Brown

BUTANE GAS

- Gas for Piezo Cordless Soldering
- Use only filtered butane gas in piezo irons.



Part No.	Description
BR200	Butane Gas, 300ml

PORTASOL PIEZO KIT

- Gas soldering iron supplied in box with sponge
- Comes with hot knife tip



Part No.	Description
PSI 100K	Portasol Kit

KESTER LEAD FREE SOLDER WIRE – NO CLEAN

- Kester SN96.5 AG3 CU0.5 in 1lb (450g) spools in "275" no-clean cored flux, 58 core size (2.2%)
- RoHS Ready



Part No.	Description	Diameter
24-7068-7608	LF Solder Wire, No Clean	0.38mm
24-7068-7603	LF Solder Wire, No Clean	0.51mm
24-7068-7617	LF Solder Wire, No Clean	0.64mm
24-7068-7601	LF Solder Wire, No Clean	0.78mm

SOLDAPULT PLASTIC DESOLDERING PUMP

- Plastic Barrel Desoldering Pump
- For one-handed, high-vacuum solder suction



Part No.	Description
CE 114-202	Desoldering Pump Plastic 330mm OAL
CE 407-294	Desoldering Pump Conductive 330mm OAL

Ultrasonic Cleaning Baths

Ultrasonics are like soundwaves but have frequencies above our range of hearing. Ultrasound energy is transmitted to the liquid in the cleaning bath by transducers underneath. This energy causes cavitation – which is the rapid implosion and explosion of the tiny bubbles of air within the liquid. The cavitation causes turbulence in the liquid that gently scrubs all surfaces of the items being cleaned.

Pulse Swept power technology ensures printed circuit boards, instruments and delicate items are cleaned to your exacting requirements without damage. Enables cleaning without manual scrubbing. All models fitted with a timer and touch control keypad. Heating offered as an option.



Models with TD = Timer, no heater; Models with HD = Timer and heater

Part No.	Bath L x W x D (mm)	Size L x W x D (mm)	Capacity (L)	Heating (Peak)	Power
80TD	235 x 138 x 65	279 x 219 x 170	1.6	–	60W
120TD	153 x 138 x 100	180 x 219 x 179	2	–	60W
160TD	235 x 138 x 100	279 x 219 x 170	3	–	70W
160HD	235 x 138 x 100	279 x 219 x 170	3	100W	70W
250TD	295 x 150 x 150	338 x 234 x 232	6	–	120W
250HD	295 x 150 x 150	338 x 234 x 232	6	200W	120W
500TD	298 x 238 x 150	338 x 323 x 237	10	–	130W
500HD	298 x 238 x 150	338 x 323 x 237	10	200W	130W
800TD	300 x 330 x 150	340 x 323 x 285	15	–	250W
800HD	300 x 330 x 150	340 x 323 x 285	15	200W	250W
1000TD	495 x 295 x 150	545 x 380 x 240	20	–	250W
1000HD	495 x 295 x 150	545 x 380 x 240	20	400W	250W
2000TD	495 x 295 x 200	545 x 382 x 290	30	–	350W
2000HD	495 x 295 x 200	545 x 382 x 290	30	400W	350W
3000TD	620 x 495 x 200	545 x 382 x 290	60	–	600W
3000HD	620 x 495 x 200	545 x 382 x 290	60	1600W	600W
3800TD	600 x 450 x 300	712 x 591 x 419	80	–	650W
3800HD	600 x 450 x 300	712 x 591 x 419	80	1600W	650W

ISOPROPANOL

Mild cleaning of circuit boards, for removal of fluxes and other contaminants



Part No.	Description	Size
ISO-20L	Isopropanol	20L
ISO-5L	Isopropanol	5L
ISO-1L	Isopropanol	1L

SAFESHASH SUPER

Electrolube Safewash is the most effective aqueous cleaning product available. It is currently in use by major manufacturers in a wide variety of cleaning machines. Safewash is effective in all equipment types including batch ultrasonics, in-line spray, dishwasher and also by hand. Removes fluxes, solder paste and other contaminants.



Part No.	Description	Size
ISO-20L	Safewash Super	5L
ISO-5L	Safewash Super	25L