DISPOSABLE ESD CLEANROOM CLOTHING

TYVEK PROTECH® clothing

TYVEK PROTECH® is a complete clothing line of products dedicated to operators working into clean room areas, needing perfect constant non contaminating clothes and ESD protection.

Tyvek is a Dupont brand for spunbonded polyolefin constructed with extra fine filaments thermo-sealed to prevent linting. Filaments are composed of 100% PE without resins or bonders.

The clean Tyvek surface is washable, thin, lightweight, flexible, withstands abrasion and is chemically inert.

Clean Tyvek is transpirant to moisture vapour, creating a barrier against liquids, powder, fibres and submicron particles. Ask for full technical documentation.

Features	Values
Structure	100% PE
Weigth	41 g/mq
Particles barrier	0.5 µ: 98,0%
Non dangerous transmission rate	Strong barrier
Solvents acids bases transmission rate	Ask specific bulletin
Surface resistance	10° Ohm
Air transmission rate	12 I/m/min - 200 Pa
Cleanliness rate category	Cat. I 50
(particles 0.5 micron x 10 minutes)	



Art. 9201 Overall/Mao collar, el. wrist + ankles, zip 2 curs.

Art. 9210 Overall/hood, elast. wrist + ankles, zip 2 curs.

Art. 9210/S As above with seals

Art. 9410 LABCOAT, Mao collar, zip, elastic wrist

Art. 9420 LABCOAT, shirt neck, zip, elastic wrist

Art. 9510 Trousers/waist elastic

Art. 9600 Flat hood, elast; face and neck

Art. 9606 Diving suit hood, only eyes opening

Art. 9700/TF Perfored headwear, diam. 50 cm.

Art. 9701/T Headwear, diam. 50 cm.

Art. 9801/T Shoecover

Art. 9900/T Boots, elast. at calf

Note: All above items are available in sterilized Gamma ray packaging



NON TYVEK® CLOTHING

Art. 9710/50 Headwear TNT perfored-lux, diam. 50 cm.
Art. 9710/60 Headwear TNT perfored-lux, diam. 60 cm.
Art. 9711/50 Headwear TNT perfored-economy, 50 cm.
Art. 9712/60 Headwear TNT perfored-economy, 60 cm.

Art. 9713/P/50 Headwear poliprop. 20 gr. - diam. 50 cm. Art. 9723/TNT Simple band cap, man, TNT perf., elast. neck

Art. 9722/TNT Universal cap, TNT perforate

Art. 9720/TNT Double band cap, man, TNT perf., elast. neck
Art. 9900/T/PVC Boots, PVC sole, 2 elast. as closure
Art. 9800/T/PVC Shoecover, PVC sole, elast. at ankles
Art. 9802/PVC Blue PVC shoecover - 41 cm.
Art. 9803/PLP Polipropilene 40 gr. shoecover

CONDUCTIVE CLEAN ROOM CHAIRS

Art. CLEAN K

Flame resistant fabric

CLEAN K clean room conductive chairs, especially designed for clean industrial applications, guarantee ESD protection, by dissipating totally and continuosly the static charge through the structure to earth.

Featuring a strong metal structure, including gas elevation, 5 points die-casted aluminium basis and special self adjustable backrest (permanent contact with the operator's back), CLEAN K chairs are lined with plastified static dissipative black cover, available either with ESD gliders or castors, the back of the backrest is made with moulded dissipative plastic.

2 heights available, the model CLEAN K2 features metal circular footrest as standard.

GENERAL FEATURES			
Elevation	Gas		
Adjustment	Seat height - Backrest height		
	Backrest depth		
	Backrest/permanent contact		
	Clean K1 Clean K2		
Height of the seat	450 - 580 mm	650 - 780 mm	
Footrest	None	Fixed, chromed ring	
Weigth	12 Kg	13.8 Kg	



ESD FEATURES		
Resist. surf. fabric	IEC 61340-5-1	R < 8 Mohm
Resist. to ground of the chair	IEC 61340-5-1	R < 8 Mohm
Static decay time		
fabric	IEC 61340-5-1	< 2 sec



ESD BRUSHES





This is a completed line of ESD conductive brushes disegned specifically for the operator's daily work on boards and components.

The program includes different sizes and shapes for both abrasion and dust and residues removal. The application does not generate static charges.

Features	EB 200	EB 06	EB 1	EB 30	EB WA	EB NAIL	EB SOFT	EB PRO
Handle	Plastic cond.	Metal	Metal	Plastic cond.	Metal cond.	Metal cond.	Plastic cond.	Plastic cond.
Bristle	Synthetic cond.	Synthetic cond.	Synthetic cond.	Synthetic cond.	Synthetic cond.	Synthetic cond.	Synthetic cond.	Synthetic cond.
Brush length Bristle area	160mm 155x40	95mm. 2 x 6 mm.	135 mm. 5x11mm.	190mm. 35 x 8 mm.	142mm. 22x10 mm	80mm. 70x20mm.	175mm. 60x10mm	100mm. 80x40mm
Bristle length	18mm	12 mm.	20mm.	13 mm.	12 mm.	12mm.	30mm.	20mm.

FLUX DISPENSING PENS

Refillable barrels and spare felt tips

FLUX PENS have been designed to dispense fluxes (noclean, RMA etc...), solvents, masking products and water based liquids, meeting current regulations for controlling substances capable of evaporation hazard.

The exclusive FLOW SEAL provides superior control of flooding and spattering during cleaning or tips replacement. Available as



transparent bottles.

Both pens and bottles use the same spare tips.

The tips are available with different shapes for each specific application.

Article	Description	Dimensions
FLUX PEN	ESD pen	Length 140mm Barrel 30ml
FLUX BOTTLE	Bottle of plastic	Length 120mm Barrel 60ml

Fluxtip spare universal set		
CHISEL	set 10 tips	Length 20mm
SPARE SET	screwdriver	Diameter 3mm
CIRCLE	set 10 tips	Length 20mm
SPARE SET	rounded	Diameter 3mm
POINTED	set 10 tips	Length 20mm
SPARE SET	pointed	Diameter 3mm

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PGA TOOLS

PGA UNIVERSAL INSERTER

Art. PGI

ESD safe PGA inserting tool available for components from 13x13 to 21x21 and from 17x17 to 24x24 PIN. Adjustment and release with the rotating knob.

PGA UNIVERSAL EXTRACTOR

Art. PGE

PGA extracting tool universally adjustable and ESD safe. The rotation of the knob will grab and extract the component. A reverse rotation will release the tool

ADJUSTABLE PGA EXTRACTOR

Art. PGE/2300

PGA extractor including vertical elevation mechanism. Minimized footprint on the board, strong aluminium construction, adjustable from 16x16 to 22x22 PIN, available with four or two grips, lifts the component up to 15 mm.







PLCC TOOLS

Art. PLE 2200

ESD safe PLCC universal extractor, uses a special mechanism to block the component which is lifted up by pressing simultaneously the lateral levers.

This system ensures a no-stress lift up of the component.









ESD PROBE TOOL SET



Art. CAPT. HOOK

ESD handle, different metal probes for your rework operations. Simply choose the most adequate probe among the four supplied in the set.

The set is supplied in a plastic conductive case, with one handle and four different probes.

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NO-CLEAN DE-SOLDERING WICK

Art. CW

Designed to clean contacts during component desoldering and board rework operations, it does not leave residues and ensures a fast solder melt absorption, resulting in reduced times and costs.



The used flux is NO-CLEAN organic and non corrosive.

Different wick sizes for any application. Available as reels of 1.6m or spools of 30m.

Article	Size	Lenght
CW 15-16	1.5mm	1.6m
CW 20-16	2.0mm	1.6m
CW 25-16	2.5mm	1.6m
CW 15-30	1.5mm	30m
CW 20-30	2.0mm	30m
CW 25-30	2.5mm	30m

LEAD STRAIGHTENERS

Art. ICB-3E

Metal construction, suitable for operations with 0.3'', 0.4'', 0.6'' (4 to 64 pins) components, continuous adjustment.

Art. ICB-5E

Conductive plastic construction, different paths for 0,3", 0,4", 0,6", 0,75", 0,9" components.





QFP LEAD STRAIGHTENER

Art. ICB-QFP



Use ICB-QFP to straighten bent fine pitch leads on Quad Flat Packs. Convenient and easy to straighten leads by hand with patented lead templates. Handles fine pitch components from 0.4 mm to 1.0 mm, up to 304 leads. set includes a laboratory grade AA granite surface plate, two lead straightening probes, tweezers and a Vampire vacuum pickup tool.

QFP Templates	Pitch
QFP 144	0.5 mm
QFP 144	0.65 mm
QFP 160	0.65 mm
QFP 184	0.65 mm
QFP 208	0.5 mm
QFP 240	0.5 mm
QFP 304	0.5 mm





OPTICAL INSPECTION



sity illumination system allowing daylight-like lightning.

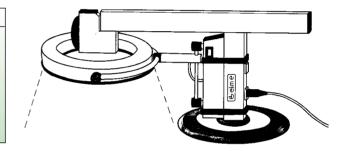
MICROSCOPE

Art. EV SCOPE Full vision system includes a balaced frame arm, incorporating one colour microcamera with high performance features (high definition and sensitivity). Vertical focus with manual optical adjustment system. Simple to use, can send images both to video monitors and to PC by means of an RCA connection or a data acquisition system. Images can then be stored for design purposes. Added precision

with the specially designed double inten-

VIDEO

Features	Values
Microcamera	CCD1/3"
Arm	540mm.
Usable surface	300mm.
Magnifications	10x to 25cm., 50x to 10 cm.
	Composite Video Output
Weigth	5 Kg.
Power	220/240V - 15W



ELECTRONIC VISION LIGHT - Art. EV LIGHT

6000k° electronic light, with circular shape, includes adjustment joints, allows images with no shades or reflexes.

Features	Values
Power	22W
Diam. Est. / Int.	250mm. / 170mm.
Weigth	1.5kg
Power	220V

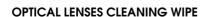
CONTACT SPOT MAGNIFICATION

Art. EV SPOT

Using a special colour microcamera, allows magnification 30X reproduction. Simply place the device over a significant portion of the area to be examined. EV SPOT has its own lighting source, which is activated by a light pressure on the small button.

Easy focusing by means of a simple rotation of the lens.

EV SPOT must be connected to the SCART connection of the monitor or television.



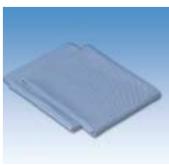
Art. GLASSWIPE

Microfibre wiper designed for optical cleaning, glass, plexiglass, laquered surfaces, laminates etc. Usage: dry or lightly wet (water) and no detergents

Material: polyester (70%) and polyamide (30%). Liquid absorption: 289.4% (distilled water). Dimensions 450x400mm.

Maintenance: wash with soap, any temperature water (no bleaching).





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MINI MIRRORS

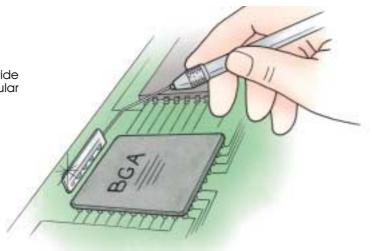
Art. EMR VISION SET BOX

This set box has been designed to provide you with a kit including the most popular mirrors, packed in a plastic box.

The set box includes:

- 1 EMR HANDLE
- **1 EMR SQUARE**
- I EMR SIDE LARGE
- 1 EMR T-SMALL





EMR MIRRORS SPARE PARTS AVAILABLE

Art.	Description	Shape
EMR HANDLE	ESD universal metal handle	
EMR SQUARE	Straight needle, square mirror, side 9,44mm., (left & right handed)	◇ ——
EMR SIDE SMALL EMR SIDE LARGE	45° angled needle, rectangular, dim. 6,3x1,16mm. 45° angled needle, rectangular rectangular, dim. 9,44x3,05mm.	
EMR T-SMALL EMR T-LARGE	45° angled needle, rectangular, dim. 19,15x4,8mm. 45° angled needle, rectangular, dim. 24,07x4,8mm.	R

LAMPS WITH MAGNIFIERS LENSES

Art. LITE 319

Lens 162 x 105mm - Diopters 3,0

3 x fluorescent lamp 9 W. Light output controlled with 2-way-switch.

Arm 430+400mm with table clamp or wall bracket on request.

Supply voltage 230 V/ 50 Hz. Power cord 3m/Schucko. Weigth (net) approx. 4.4 kg.

Available standard version, electronic switch version or black ESD version.

Art. LITE 122

Dimensions Ø 120 mm lens with 1 fluorescent lamp 22 W. Clip replaceable lens (diopters 3.5, 4, 6, 8) with magnifier cover.

Lenses are treated anti-scratch, withstand alchool solvents and chemicals.

Arm 430+400mm, light grey, table clamp or wall bracket on request.

Weigth (net) approx. 2,8 kg Supply voltage 230 V/50 Hz.





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SPOT BOARDS INDICATORS

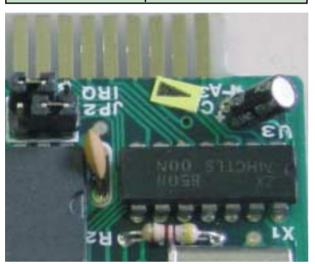
ADHESIVE ARROWS

Art. MINI ARROWS

Self adhesive coloured arrows designed specifically for indications on PCBs of components to be reworked or replaced.

Block of 5000 pcs (sheets of 50 pcs).

Article	Description
MINI ARROWS RED	3 x 5mm colour red
MINI ARROWS YELLOW	3 x 5mm colour yellow



TEMPORARY MARKING PENS

Art. TEMPO MARK

Temporary marking on pcbs and components, with highly visible fluorescent ink. ideally designed for the rework process.

Tempo Mark enables the operator to mark with a fluorescent ink dot the specific point, 10 minutes to dry, and the dot may be easily removed without leaving any residue (no adhesives contained). Easily replaces adhesive labels



and leaves no residues. Micro Tip available. Important: always close the cap after usage.

Article	Colour
TEMPO MARK Yellow	fluorescent yellow
TEMPO MARK Green	fluorescent green
TEMPO MARK Orange	fluorescent orange

LABEL REMOVER

Art. TIDY PEN

Quickly removes label adhesives without leaving residues!

Designed to easily remove labels, tapes and adhesives residues with astounding speed.

With this felt-tipped marker pen you can quickly clean without elbow grease (eliminating the need for messy chemicals, fumes, odors and spills). With just a modest citrus aroma.

The solvent is combustible and with neutral pH. Low cost-per-use. Test on plastics.



TEMPERATURE INDICATING SELF ADHESIVE LABELS

Art. EAS-CELSI

Mini-labels sensitive to temperature, irrevocable recording of defined level trepass. Available ranges between 40°C and 260°C. The points turn the colours when temperature is over the defined limit. Applications are: pcb soldering and drying processes, specific heating of mechanical parts, delivery and stockage of heat sensitive parts.



- Celsi strip 8 levels self adhesive strip labels dim. 45x15mm. Ranges from 40° C > 70° C to 210° C > 260° C.
- Celsi strip 5 levels self adhesive strip labels dim. 45x15mm. Ranges from 40° C > 54° C to 232° C> 260° C.
- Celsi dot 1 level self adhesive labels dim. 10x14mm. Single points from 40°C to 260°C.
- Celsi point 1 level self adhesive rounded labels ø 10 mm. Single points from 40°C to 260°C.
- Celsi clock 5 levels self adhesive rounded labels Ø 14 mm. Ranges from 40°C > 54°C to 232°C > 260°C.

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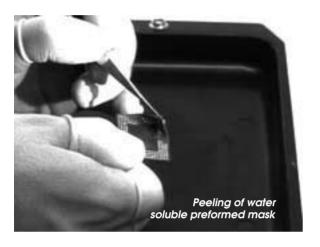
BGA RE-BALLING KIT

Art. BGA RE-BALLING

A new innovative re-balling system for bga components, allows a simple, fast and effective rework of BGA.

Free from complicate and expensive equipments, this system includes pre-formed masks and frames for the re-balling of each specific size of BGA components on the market.

A simple operation which enables you to save time and money.



Frame Preformed mask Clean BGA

Different packages available on request

CIRCUIT TECH REWORK KIT

The Professional Repair Kit is the most complete and most versatile circuit board repair kit you'll find anywhere. It's the total package. The kit includes dry film, epoxy-backed circuit frames, and unique replacement circuits that require no messy liquid epoxy. There are eyelets and setting tools for plated through hole repair, Circuit Tracks to repair damaged circuits, epoxy and color agents for solder mask or base board repairs, and a comprehensive manual...all packaged in a convenient carrying case. If you need to repair damaged circuit boards, the all-in-one Professional Kit is just what you need. In case of need you can browse on www.circuittechctr.com

FLEXTAC BGA REWORK STENCILS Art. 201-3120

Stencil kit for BGA components: self adhesive, reusable, for the specific dispensing on BGA.





GOLD CONTACT PLATYING SYSTEM 120/230VAC Art. 115-1702

Complete system for replating solder-contaminated gold edge contacts, contact's thikness. Plating solutions are available separately.

PROFESSIONAL KIT Art. 201-2102

The most complete and versatile kit for boards rework.



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ELECTRIC SCREWDRIVERS

Art. FAB

Designed for electronic assembly (clean room admissible) the electric screwdrivers FAB use a 30 Vdc engine (low voltage) and a protection electronic circuit, ensuring the maximum security for the operator.

The automatic stop clutch (±5% repeatability) is coupled with an electronic control to ensure durability to the screwdriver itself.



TORQUE TESTER

Art. E-K2

Electronic torque tester designed for high-precision measurement of the static or dynamic torque on electric and pneumatic screwdrivers

Front display indicates torque, power supply conditions and threshold conditions (2 lines -16 characters).

Keys: ON/OFF, MENU, RESET, SCROLL, CS1 SENSOR,

RS232C PORT

.Power supply: 9V battery

TECHNICAL FEATURES SCREWDRIVERS

Features	FAB 05 SF	FAB 10 RE	FAB 12 RE	FAB 18 RE
Screw size	M 2,5	M3	M3	M4
Torque Nm	0,05-0,8	0,05 -0,8	0,2 -1,4	0,3 - 1,8
Speed Rpm	200	1000	1000	650
Voltage	30V	30V	30V	30V
Diam. body	33mm	33mm	33mm	33mm
Body length	190mm	220mm	220mm	220mm
Start	Lever	Lever	Lever	Lever
Weight Kg.	0.350	0.480	0.480	0.480
Suggested supply	EDU.1NS	EDU.1NS	EDU.1NS	EDU.1NS

For different torques and screws, please ask.



POWER SUPPLIES FOR FAB SCREWDRIVERS

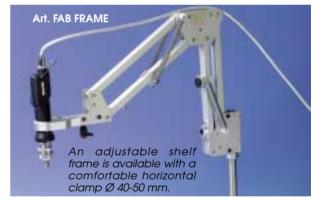
Art. EDU

Notes to the following list:

/R (Ramp): torque curve adjustment

/RA (Ramp-Acceleration): speed increase adjustment these adjustments are designed to avoid mechanical stresses risks on delicate parts (glass, metal or plastic).

Torque adjustment is independent from Rampa and Acceleratio adjustments.





POWER SUPPLIES TECHNICASL FEATURES

TO WER OUT	WER 0011 E120 12011WG/ 102 1 27W0 RE0					
Article	Features	Weigth and Dimensions	Applications	Screwdrivers types		
EDU.1NS	67VA, 1 connector, 1 speed	130x114x75mm 1.650 Kg.	Metrical screws or self tapping screw	LEVA FAB e RAF		
EDU.1NS/R	67VA, 1 connector, 1 speed	130x114x75mm 1.650 Kg.	Metrical screws or self tapping screw	LEVA FAB e RAF		
	with adjustable ramp					
EDU.1NS/RA	67VA, 1 connettore, 1 speed	130x114x75mm 1.650 Kg.	Metrical screws or self tapping screw	LEVA FAB e RAF		
	adjustable, with adjustable ramp					
EDU.2CL	100VA, 2 connectors, 2 speed	180x124x90mm 2.650 Kg.	Metrical screws or self tapping screw	LEVA FAB e RAF		
EDU.2CS	100VA, 2 connectors, 2 speed	180x124x90mm 2.650 Kg.	Metrical screws or self tapping screw	LEVA FAB e RAF		

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NEW SOLDERING, DE-SOLDERING AND HOT AIR SYSTEM

Art. FALCON

The FALCON rework system has been designed to assemble and rework standard and SMT components on boards with a 100% control of all dynamic parameters. The system includes a soldering unit, a de-soldering unit and a hot-air unit PTC cartridge.

✓ PTC CARTRIDGE

All FALCON units use a special PTC (Positive Tem Coefficent) heating element which varies the resistance (Ohms) in relation to temperatures, enabling temperature controls each 0.01 secs!

✓ TIPS INCLUDE THE HEATING ELEMENTS

The heating elements of all FALCON units are included into the tips. Therefore the short size of the tips provide several advantages:

- minimizing the thermal excursion due to temperature control
- tuning the right energy consumption from small to larger joints
- reducing the average working temperature
- giving always immediate reactions to temperature and supply of energy adjustments
- increasing the tips lifetime



Art. FALCON SALDA

Soldering unit

- -Digital microprocessor tip temperature control with 3 digits readout
- Comfortable min/max button control
- Temp. tollerance: ± 2%
- Power max: 100W
- Power supply: 230 Vac
- Soldering iron voltage: 24 Vac
- Unit dimensions: 67x137x200 mm

Art. FALCON D-SALDA

De-soldering unit

- Shortest isothermic path of the solder from the joint to the glass tank
- -Long-life desoldering tips with internal stainless steel tube
- Adjustable delay for the pump switch-off
- Higher vacuum capability (500mm Hg approx.)
- Digital microprocessor tip temperature control with 3 digits readout
- Comfortable min/max button control
- Temp. tollerance: ± 2%
- Power max: 100W
- Power supply: 230 Vac
- Soldering iron voltage: 24 Vac
- Unit dimensions: 67x137x200 mm - Graphite pump (0÷8 Lt)

Art. FALCON ARIA - Hot-air unit

The new hot-air unit ARIA is designed to be extremely flexible. Infact it suits well different situations as high density of components, dif-ferent standards (traditional, J, flat or BGA), microscopes and restricted temperature ranges. This is possible due to the ergonomic design and the available power.

- -Digital temperature control with microprocessor
- 3 digits display
- automatic stand-by with de-activated
- fine adjustment of air flow (software re-adjustable)
- PTC heating element
- Toilerance on temper, regulation ±5%
- Available nitrogen supply version
- Power: 100W
- Power supply: 230 AC Pump: 0÷8 lt/min
- Dimensions: 67x137x200 mm Weight: 2.5 Kg

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Linea di macchine preformatrici per compo-nenti elettronici. Sistemi per lavorazioni speciali disponibili a richiesta.

The full line of standard lead forming equipment. Custom systems are available upon request.

Standardsbearbeitungsmaschinen für elek-

tronische Bautelle. Sonderformungswerkzeuge können auf gewünschte Bedürfnisse gebaut werden.

Gamme de machines de coupe et preformage. Systemes de preformagé speciaux sur demande.



TP6/V



Macchina per taglio e piegatura di componenti assiali per montaggio verticale

Outting and bending machine for axial components for vertical mounting

Schneide-und Biegemaschine für axiale Bauteile, stehende Montage

Machine de coupe et cambrage vertical pour composants axiaux



Macchina per taglio e piegatura di componenti assiali

Cutting and bending machine for axial components

Schneide-und Biegemaschine für axiale Bauteile

Machine de coupe et cambrage pour composants axiaux



TP6/V-PR

assiali per montaggio verticale Cutting, bending and forming

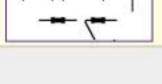
machine for axial components for vertical mounting

Macchina per taglio, piegatura

e formatura di componenti

Schneide-und Biegemaschine für axiale Bauteile, stehende Montage, mit Sickeneinrichtung

Machine de coupe, cambrage et clipsage vertical, pour composants axiaux



Macchina per taglio, piegatura. e formatura di componenti negiali

Cutting, bending and forming machine for axial components

Schneide-und Biegemaschine für axiale Bauteile mit Sickeneinrichtung

Machine de coupe, cambrage et clipsage pour composants axiaux



CS10-CS20-CS30-

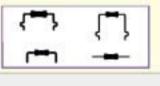
CS40

Caricatori per componenti assiali sfusi per le macchine TP

Loose axial component feeders for all TP machines

Zuführeinhait für lose axiale Bauteile für alle TP Maschinen

Système pour composants axiaux en vrac pour les machines TP

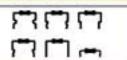


TP6/PR-B

Macchina per taglio, piegatura e formatura di componenti assiali

Cutting, bending and forming machine for axial components





Schneide-und Biegemaschine für axiale Bauteile mit Sickeneinrichtung

Machine de coupe, cambrage et clipsage pour composants axiaux



Macchina per taglio dei componenti radiali nastrati

Cutting machine for taped radial components

Schneidemaschine für gegurtete radiale Bautelle



TP6/R

Machine de coupe pour composants radiaux en bande.



TP/IC-F

nenti integrati

Macchina per formare compo-

Dip lead forming machine

IC-Richtgerät

Machine à cambrer les composants DIP



TP6/97 TP6 PR-B/97 Macchina per taglio, piegatura. e formatura di componenti assiali

Cutting, bending and forming machine for axial components

Schneide-und Biegemaschine für axiale Bauteile mit. Sickeneinrichtung

Machine de coupe, cambrage et clipsage vertical, pour composants axiaux



Gruppo di motorizzazione per tutte le macchine TP manuali

Motor drive unit for all TP handcrank machines

MOT-98 MOT-98/A

Motor für alle TP handbetriebenen Maschinen

Machine de coupe, cambrage et clipsage pour composants axiaux



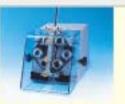
TP/TC4

Macchina automatica per il taglio di componenti radiali sfusi

Motorized cutting machine for loose radial components

Motorbetriebene Schneidemaschine für lose radiale Bautelle

Machine automatique de coupe pour composants radiaux en vrac



Macchina per tagliare componenti radiali in stecca.

Cutting machine for radial components in stick

TP/TC5 Schneide machine für Radiale Bautelle



Machine de coupe pour composant radiaux en stick



TP/LN-500



Macchina pneumatica per il taglio di componenti radiali sfusi

Pneumatic cutting machine for loose radial components

Pneumatisches Schneidegerät für lose radiale Bauteile

Machine pneumatique de coupe pour composants radiaux en vrac



Macchina pneumatica per taglio e formatura di componenti radiali sfusi

Pneumatic cutting and forming machine for loose radial components

Pneumatische Schneide-und Sickenmaschine für lose radiale Bautelle

Machine pneumatique de coupe et clipsage pour composants radiaux en vrac



Macchina pneumatica per taglio e formatura di componenti radali sfusi

Pneumatic cutting and forming machine for loose radial components



TP/SC4



Pneumatische Schneide-und Sickenmaschine für lose radiale Bautelle

Machine pneumatique de coupe et clipsage pour composants radiaux en vrac



P/R-PR-AS1

Macchina automatica pneumatica per taglio e formatura di componenti radiali nastrati

Automatic pneumatic cutting and forming machine for taped radial components

AutomatischePneumatische Schneide-und Biegemaschine für gegurtete radiale Bautele, mit Sickeneinrichtung

Machine pneumatique automatique de coupe et clipsage pour composants radiaux en bande



Macchina automatica per taglio e formatura di componenti radial in stecca

Automatic cutting-forming machine for radial components in stick

Automatische Schneide-und Sickeemaschine für radale Bautelen von stange







