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Certification



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POCKET CATALOG

 ideal-tek 



Swiss manufacturer and supplier of precision tools

Since being established in Switzerland in 1964, Ideal-tek has become one of the world's leading manufacturers and suppliers of precision hand tools and instruments. Our products are used every day, all over the world, by thousands of customers in the medical device, microscopy and laboratory, electronics and semiconductor, watchmaking and jewellery industries.

The company

From our facility in the southern Switzerland region of Ticino, we design and manufacture high-quality specialist tweezers, cutters, pliers and custom-designed tools. We also provide customers with additional complementary products, sourced from highly respected third parties. These products include microscopes, scalpels and blades, printed circuit board holders, soldering/desoldering tools. Our products are sold in 45 countries by a network of some 150 distributor partners.

Mission

First quality manufacturer of precision instruments creating value through a perfect balance between industrialization and craftsmanship with a high understanding of our end users and distributors needs and expectations. We strongly believe that long-term partnerships are the key to our past, present and future success.

VALUES

TRANSPARENCY - Business ethics are our first priority.

RELIABILITY - We are always consistent and dependable.

BUSINESS AGILITY - Adapt to market and environmental changes.

POLITENESS - We are polite and professional in all our relationships.

QUALITY: ISO 9001 – ISO 13485

Production Quality Control processes include checks on geometry, hardness, chemical resistance and tool life. Every Ideal-tek instrument passes a rigorous final test before our customer handles it.





TWEEZERS

SWISS MADE 

HIGH PRECISION TWEEZERS

High precision tweezers are skilfully handcrafted to offer polished edges and a superior no-scratch/antiglare satin finish.

Used for microscopic work, precision handling, repair and manufacturing of electronic machinery along with other general applications, high precision tweezers guarantee the perfect symmetry and balance of tips.



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BIOLOGY TWEEZERS

Ideal for handling tiny material and grids, for applications involving extreme temperatures, chemicals and harsh conditions and in general for microscopic work with medical devices, biology tweezers feature ultra-fine tips in Superalloy (CX) and high-alloy stainless steel (DX).



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CUTTING TWEEZERS



The high-grade carbon steel cutting tweezers feature a tapered slim design for superior precision in cutting, dissecting and segmenting tiny items while working in narrow spaces.

Available with angled blades, predominantly angled blades, parallel blades, rounded tips, hard-metal carbide blades and in the miniature version, cutting tweezers find several applications.

They are especially used to cut soft wires such as copper, gold, silver as well as magnetic wires and hard hairsprings.

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PLASTIC REPLACEABLE TIP TWEEZERS

These tweezers feature durable and self-aligning replacement tips, anti-magnetic stainless steel handles and are available with a variety of tip geometries and materials: they offer a significant cost savings. Excellent for handling sensitive electronic components, and ceramic and glass parts where non-metallic non-scratching is critical.



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FULL PLASTIC TWEEZERS

Cost-effective alternative to metal tweezers for sensitive applications and handling scratch sensitive electronic parts, glass and ceramic substrates. Lightweight, strong and sturdy material make them ideal for forensic, electronic and sample preparation applications.



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CERAMIC REPLACEABLE TIP TWEEZERS

Zirconia ceramic tips (MZ) and ESD safe ceramic tips (ZJ) are contamination free as well as high temperature, wear and solder resistant. They feature alignable replaceable tips with stainless steel handles. High precision tips for high temperature applications and handling of sensitive components, ceramic and glass parts where non-metallic non-scratching is critical.



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FULL CERAMIC TWEEZERS



Ceramic tweezers in Zirconia combine high strength and flexibility, extreme resistance to wear and abrasion, high temperature and corrosion. The very hard surface, electrically insulating and resistant to wear and solder, allow a careful handling of sensitive components without risk of contamination in electronic device manufacturing and repair. Ceramic tweezers are ideal for applications in clean rooms, biotechnology and nanotechnology, manufacturing of semiconductor and electronics.

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MINI TWEEZERS

Extra light ergonomic tweezers with short and slim tips
ideal for working into tight spaces, under a microscope
and for short range precision work.

Efficient and accurate, mini tweezers are typically used
for specimen handling, microscopy preparation,
sorting, precision manufacturing,
electronic assembly, rework and repair.

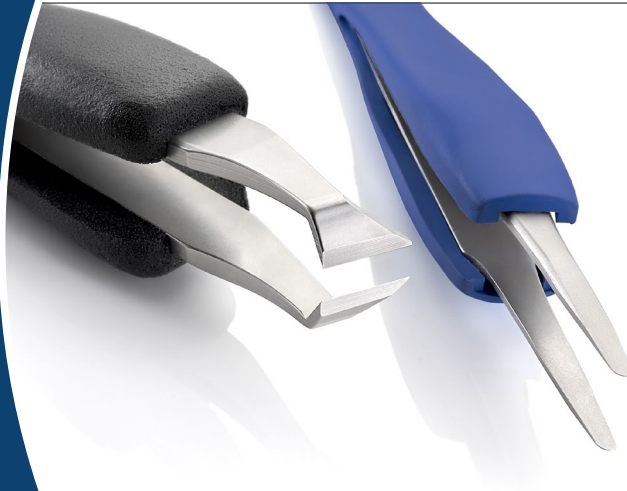


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ESD RUBBER TWEEZERS & ESD FOAM TWEEZERS

Soft ESD safe ergonomic cushion grips (resistivity 10^9 Ohm) provide enhanced operator comfort and reduced finger stress when handling ESD sensitive components or small static items. Two different handles are available: ESD safe blue Rubber (DR) or ESD safe black Foam (DN).



DR TW.



DN TW.



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ESD DIAMOND COATED



Diamond Like Carbon (DLC) tweezers are made with plasma-assisted deposition of carbon clusters. Non-toxic and biologically compatible, diamond coated tweezers are ideal for precision work in clean rooms and sterile environments: the diamond coating prevents contamination with metal particles, offering resistance to corrosion, humidity, extreme temperatures and wear. Long duration and perfect shape retention over time.

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ESD EPOXY COATED TWEEZERS

Enhanced operator comfort, resistance to impact and to the majority of diluted acids and alkalis, thanks to a black ESD-safe (resistivity 10^5 - 10^6 Ohm)

Epoxy coating: Ideal-tek Anti-Magnetic or Carbon precision tweezers guarantee superior precision in any condition, easy clean and maintenance.



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TEFLON COATED TWEEZERS

Teflon-coated tweezers are recommended for handling fragile material and for working in cryo-critical conditions. Teflon, or Polytetrafluoroethylene (PTFE), is a synthetic fluoropolymer consisting of carbon and fluorine. Thanks to its thermal and chemical properties, Teflon reduces the heat and corrosive action of acids and bases on the tips.



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PREMIUM ECONOMY TWEEZERS & ECONOMY TWEEZERS

Ideal-tek Premium Economy line includes a great variety of stainless steel tweezers suitable for many applications in electronic industry. Anti-acid and anti-magnetic, premium economy tweezers offer the most convenient quality/price ratio. The most popular tweezers are also available in the economical line at very competitive costs. Economy Tweezers are made in Asia from low carbon austenitic steel, and re-worked for a consistent performance.



PREM. ECON.



ECON.



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REVERSE ACTION TWEEZERS

Reverse Action Tweezers are specifically for applications that require a high precision self-closing action, such as microscopy and electronic assembly applications.

The peculiar shape of handles and tips guarantees a uniform tension in the handling of small fragile parts without finger strain, even for extended periods of time.



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WAFER TWEEZERS

Wafer tweezers feature flat tips for handling wafer semiconductors and other flat parts in electronic device repairing or manufacturing. The tips come in different shapes and sizes (from 5 to 65 mm width) to allow a smooth manoeuvring and positioning of thin and delicate substrates like glass, metal and silicon wafers.



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SMD TWEEZERS



SMD Tweezers are available in a variety of tips and angles configurations for smooth holding, positioning and controlling of small Surface Mount Device components.

Ergonomic and resistant to corrosion, chemicals and acids, SMD tweezers feature satin antiglare finish and a comfortable and safe design.

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COMPONENT POSITIONING TWEEZERS

Designed specifically to hold delicate components firmly and safely, these stainless steel tweezers are a handy and effective solution for many applications.

Positioning Tweezers offer a very good resistance to mechanical stress, wear and abrasion. Typical applications include assembling and positioning of small parts.



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BOLEY TWEEZERS

GENERAL PURPOSE TWEEZERS

Ideal-tek General Purpose Tweezers and Boley Tweezers are handcrafted to achieve perfect tip symmetry and balance. Made from stainless steel type SA, S or Carbon steel and covered with industrial nickel coating (type NP) to improve resistance to mechanical stress, corrosion, wear and abrasion, general purpose tweezers are suitable for several applications.



BOL. TW



GEN. P TW



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HEAVY DUTY TWEEZERS

Comfortable and precision handling of electronic components for soldering operations. Available in straight or bent (Suffix B) version and various lengths. For very firm hold available in stainless steel (SA) or nickel plated (NP).



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GOLD PLATED TWEEZERS



Ideal-tek 24-carat gold plated tweezers are perfect to work with scratch-sensitive items and nickel grids in immuno-gold environment. Finely-crafted from anti-acid non-magnetic stainless steel, high precision tweezers are plated with 2 microns of pure 24-carat gold: the coating improves resistance to chemical corrosion, oxidation and electrical conductivity.

Gold plated tweezers can withstand high volume in auto-claving, and are generally used where corrosion resistance and toughness are primary requirements. Typical applications include microelectronics, TEM staining, immunogold work, electro-chemistry and nanotechnology work.

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DIAMOND TWEEZERS

Ideal-tek jewellery Swiss Hand Made tweezers for diamonds and precious stones are made of Stainless steel or Titanium and have matt finishing. In our product range our customer can choose special tips with groove or with locking system or both. EG line has special satin finish (starlight) on tips and grips.



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EYELASH TWEEZERS



Designed and manufactured for the special needs of the eyelash market, Ideal-tek high precision beauty tweezers stand out for aesthetic and performance.

Light and handy, but consistent and built to last, beauty tweezers are made from Stainless steel type S and SA to offer strength, hardness and resistance to all conditions in total absence of contamination.

The beauty line includes different models of tweezers with curved, straight, flat or angled tips. Beauty tweezers offer the best support to the hands of beauticians and operators in the beauty and wellness sector.

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SLANT TWEEZERS



The line dedicated to beauticians and operators in the beauty and wellness sector includes slant tweezers available in four different colours and with many options of customisation.

Ideal-tek slant tweezers are ideal for sensitive applications: thanks to the perfect tip closure, symmetry and tension, they guarantee precision, reliability and consistent performances. Furthermore, the fun and fancy cover makes them the perfect complement to beauty salons.

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CUTTERS and PLIERS

SWISS MADE 

HIGH PRECISION CUTTERS



High Precision cutters are manufactured at Ideal-tek ISO9001-13485 factory in Switzerland from high quality ball bearing steel (63 HRC). Features include superior no-scratch/anti-glare satin finish; 2-Component ESD-safe user-friendly Ergonomic handles with a soft, no particulate, comfortable gripping surface; 2 handle size options: Ergo-tek (E) and Ergo-tek slim (ES) to custom fit your personal preference and application; dual leaf stainless steel springs in standard tension or high tension (KSPRING-S); lap joint with screw in order to achieve a high level of strength and precision. Cutters are available in three cutting blades: SEMI-FLUSH, FLUSH, FULL-FLUSH.

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TUNGSTEN CARBIDE CUTTERS

The tungsten carbide cutters are specially designed for cutting hard metals: the same excellent qualities featuring Ideal-tek High-Precision Cutters are found in the Tungsten Carbide line (81 HRC). Ergonomic grips increase operational comfort and safety, while high quality ball bearing steel, dual-leaf stainless steel springs and hardened alloy steel nuts ensure superior cutting quality and durability.



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HIGH PRECISION PLIERS



High Precision pliers are manufactured at Ideal-tek ISO9001-13485 factory in Switzerland from high quality ball bearing steel (45 HRC). Features include superior no-scratch/anti-glare satin finish; 2-Component ESD-safe user-friendly Ergonomic handles with a soft, no particulate, comfortable gripping surface; 2 handle size options: Ergo-tek (E) and Ergo-tek slim (ES) to custom fit your personal preference and application; dual leaf stainless steel springs in standard tension or high tension (KSPRING-S); lap joint with screw in order to achieve a high level of strength and precision.

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MICRO-SHEARS AND MICRO-PLIERS

The new Ergo handles for the Ideal-trek Micro-Shears line were designed with a user centered design (UCD) philosophy. Ergo Micro-Shears are designed to maximize productivity while minimizing worker repetitive motion injuries. Micro-shears utilize a shearing cut to provide a clean and smooth cut. Anti-shock shear cutting greatly reduces mechanical shock delivered to the component and requires less effort to cut a wire as compared to compression wire cutters.



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PRECISION PLIERS

Ideal-tek precision pliers are popular for use in electronic assembly, rework and the fine jewelry trade for clamping and forming loops on leads or wire.

FEATURES

- AISI 410 Stainless Steel
- 45 Rockwell Hardness (HRC)
- Monocomponent ESD handles
- Box Joint

BENEFITS

- Perfect joint alignment
- Long wear
- No "slack" or "play"
- Lightweight
- Cost-effective



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PRECISION END CUTTERS

Ideal-tek precision end cutters are popular for fine mechanical work including watchmaking and repairs.

These cutters are tough enough for difficult jobs, ideal for working in confined spaces and for cutting hairsprings and soft metals.

BENEFITS

- Perfect joint alignment -
- Non-slip textured handles -
- Double-leaf springs to reduce fatigue -
- No “slack” or “play” -
- Lightweight -



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PROBES and SPATULAS

SWISS MADE 

PLASTIC PROBES AND SPATULAS



Plastic probes and spatulas are multi-purpose tools. Wear resistant, Ideal-tek plastic probes and spatulas have soft tips that do not scratch delicate surfaces:

high performance plastic materials (ESD CP and SV plastic types) offer excellent mechanical strength and toughness, high purity and stability at high temperatures.

Properties can vary significantly depending on the material, however general applications include soldering and assembly operations, application of adhesives and removal of welding masking agents, rubber latex, adhesive coatings and many others.

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STAINLESS STEEL PROBES

& STAINLESS STEEL SPATULAS

Stainless steel probes and spatulas are general tools that find different applications in the electronics field.

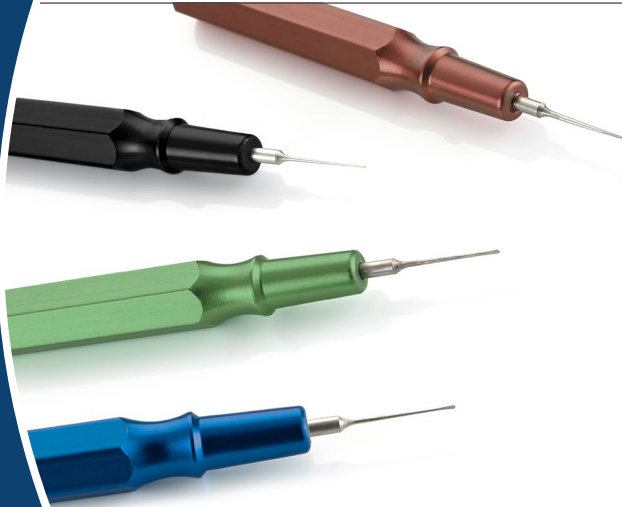
Perfect for repairing and reworking printed circuit boards, checking welding joints and performing mechanical inspections, Ideal-tek stainless steel probes are used to work with adhesives, to reach tight spaces, to pick and position small parts etc.



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MICROSPATULAS AND OILERS



Microspatulas and oilers can be used to apply lubricants to small moving parts, to position tools when working with mechanical parts or to apply adhesives in the assembly of electronic components. Ideal for working with small mechanical and electronic components, and safe from electrostatic discharge (ESD), Ideal-tek microspatulas and oilers are highly precise and reliable over time. The different shapes and dimensions of the tips and the coloured handles allow a rapid identification of the required instrument.

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SCISSORS

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SCISSORS AND INSTRUMENTS

Available in different materials, shapes and sizes depending on the application, Ideal-trek scissors and micro-scissors are designed and manufactured to meet the highest quality requirements of precision engineering. Professional scissors and micro scissors have many applications in the fields of medical device and electronics industries.



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SCALPELS and BLADES

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SCALPELS AND BLADES

Ideal-tek presents its premium quality scalpels and blades, including industrial trimming knives, trimaways, retractaways and utility blades. Accuracy, consistency and reliability are the main features of these handy tools, largely used in different sectors, including mold cutting, jewellery production, printing, graphics and artwork.



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SWABS

SWISS MADE 

SWABS



Designed and manufactured to serve a wide range of applications, markets and environments, Ideal-tek swabs are available in different types and materials. All our swabs are designed with scrupulous attention to offer rapid precision cleaning with degreasers, head cleaners, flux removers and other solvents used in medical devices and electronics industry, in Life Science applications and microscopy, in watchmaking and jewellery.

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ideal-tek 
SWISS TECHNOLOGY AT YOUR FINGERTIPS

VISUAL INSPECTION

SWISS MADE 

CLEANING PEN SYSTEM



The Cleaning Pen System is the ultimate solution for cleaning optical lenses with no fingerprints, dust and debris.

The invisible non-liquid carbon compound that never dries out on the tip is specially formulated to delete fingerprints without damaging the surface. Reliable, small and light, Ideal-tek cleaning pens are perfect for binocular lenses, digital cameras, mobile phones, digital microscopes and other optical objects.

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DIGITAL MICROSCOPES



To perform inspection, quality control, rework/repair or precision assembly tasks in the industry, Ideal-tek markets the Dino-Lite products: a full range of digital microscopes and accessories, specifically designed to support the work of engineers and technicians.

A powerful, portable and rich solution for microscopic inspection, the Dino-Lite digital microscope features rich software and advanced hardware features.

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LOUPES AND MAGNIFIERS

Loupes and magnifying lenses are essential for identifying and positioning small parts in machining, inspection, quality control, measurements, assembly and in general for any precision tasks. Ideal-tek offers a wide range of visual inspection tools with different ranges and magnification capabilities.



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TESTERS



SMART TWEEZERS



LCR Meter Smart Tweezers™ is a handheld electronic tool of a new concept.

Its unique design combines a pair of gold-plated SMD tweezers with ergonomic shielded handles and a precise full featured LCR impedance meter in a compact, lightweight instrument.

Smart Tweezers™ measures electronic component's capacitance, resistance and inductance with high speed and precision by evaluating circuit impedance. It is a perfect solution for testing and identification of Surface Mount Devices (SMD) as well as for troubleshooting of complex electronic systems.

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WORKBENCH ACCESSORIES

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BONPENS

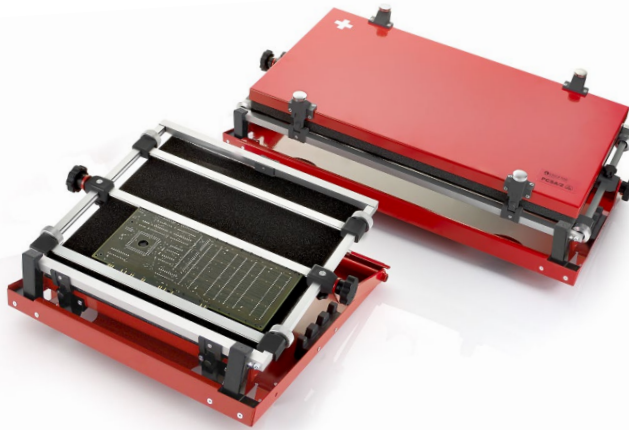


Bonpens by Bonkote™ are refillable flux pens, that allow a precise and consistent flux application. Accurate, reliable and easy to refill, Bonpens prevent evaporations of the flux and guarantee a constant flux density. The Bonpens are refillable and each model is compatible with the different tips: for different types of applications of the same flux, you can change the tip according to your needs, using a single handle.

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ESD CIRCUIT BOARD HOLDERS



The ESD-safe circuit board holders PCSA family is the perfect support for the assembly and soldering/de-soldering processes of circuit boards.

Ideal for the assembly of printed circuit boards with components, the PCSA series printed circuit boards can be easily assembled in different combinations.

The PCSA-1/2/4 standard models are equipped with removable intermediate bridge and 2 adjustable splints: it is therefore possible to create different work areas.

ESD Safe in accordance with regulations IEC 61340-5-1:2016 and IEC 61340-2-3:2016.

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DESOLDERING ESD PUMP



Ideal-tek offers several accessories for the workbench, including the ESD metal desoldering pump. The manually-operated device is used to remove solder from printed circuit boards. The suction is activated simply by pressing a button able to create vacuum inside the pump. Specially designed for E.P.A. applications, our desoldering pump is fully conductive from the body to the tip.

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SODER-WICK



Soder-Wick®, global leading brand of desoldering braid, is the fastest, cleanest and safest braid in the industry. Designed for modern heat-sensitive electronic components, Soder-Wick® features a pure copper braid structure and a lighter mass that allows good thermal conductivity, even at low temperatures.

The precise weaving design allows maximum capillary action and solder capacity in electronics maintenance or repair. Soder-Wick® reaction times are faster than conventional desoldering braids, with the advantage of reduced rework/repair time, minimal risk of overheating and prevention of PCB damage.

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SOLDERING IRONS AND GAS TORCH

Portasol brand products constitute a valid range of gas heating instruments distributed worldwide by a network of reliable distributors.

Professional welding tools are available in practical kits, including technic soldering irons and the butane-powered instruments (no cords or wires needed) with ergonomic handle and adjustable temperature control. Welded gas tanks avoid gas leaks in the event of exposure to shocks, UV light or hot and cold temperatures.



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SOLVENT DISPENSER



ESD-Safe Solvent Dispensers are designed for the safe storage and dosage of fluids in the electronics industry. Easy-to-use, clean and safe from contamination, Ideal-tek solvent dispensers are suitable for most liquids such as degreasers, oils and solvents without risk of leakage, evaporation or contamination. The content of the bottle is sealed until use by stainless steel valves, while the pump mechanism integrated in the dispenser protects liquids from dripping back after use. The use is simplified by the absence of stoppers/caps: the required amount of solvent is immediately brought to the dispensing plate at the touch of a brush, a cloth or another applicator.

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VACUUM TOOLS



Ideal-tek offers a wide range of tools to grip, lift, hold and position sensitive components and small devices. The line includes manual vacuum tools compatible with all the pick-up probes, rubber suction cups and accessories for the Vampire vacuum pen without battery, for picking up components with the push of a button. The P-830 manual vacuum pick-up will replace traditional tweezers in holding components with smooth and delicate surface. Ideal for SMD positioning and vertical handling of components in congested areas that are difficult to reach, the manual vacuum tool can be used with all pick-up probes.

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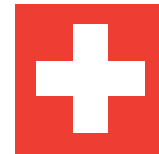
We look forward to
working with you !



[illegible]



SWISS TECHNOLOGY AT YOUR FINGERTIPS



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