



ISO 9001  
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Certification



ISO 13485  
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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

**DIVERSE**  
ELECTRONICS

Shop online at [diverseelectronics.com](http://diverseelectronics.com)

1-800-381-7308 • [sales@diverseelectronics.com](mailto:sales@diverseelectronics.com)

Montreal 514-388-7308 Toronto 647-969-0709

Ottawa 343-550-2722 Vancouver 604-787-8266

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



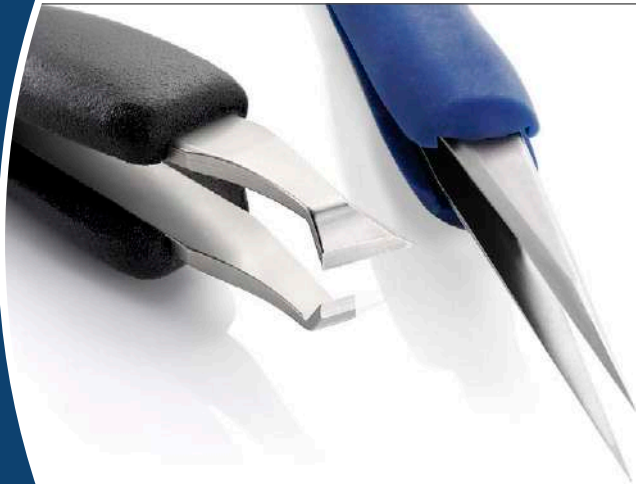
Extra light ergonomic tweezers with short and slim tips  
ideal for working into tight spaces, under a microscope  
and for short range precision work.  
Efficient and accurate, mini tweezers are typically used  
for specimen handling, microscopy preparation,  
sorting, precision manufacturing,  
electronic 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 autoclaving, 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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# CUTTERS and PLIERS

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## 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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## 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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# PROBES and SPATULAS

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## 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.

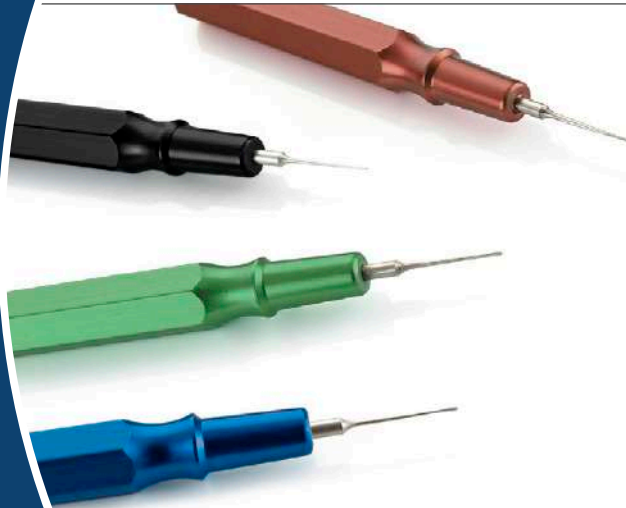
Perfect for repairing and reworking printed circuit boards, checking welding joints and performing mechanical inspections, Ideal-tek stainless steel probes are used to work with adhesives, to reach tight spaces, to pick and position small parts etc.



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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-tek scissors and instruments are designed and manufactured to meet the highest quality requirements of precision engineering. Professional scissors and needle holders have many applications in the fields of medical device and electronics industries.



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SWISS TECHNOLOGY AT YOUR FINGERTIPS

# VISUAL INSPECTION

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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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## 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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## 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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## 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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### **Custom Tools**

For 50+ years, Ideal-tek has made it our business to know your business. Our unmatched team of engineers has the experience and knowledge to understand our end users needs and expectations. Ideal-tek has the interest and capability to deliver custom tool solutions for your specific applications. And, we do it in a reasonable time frame with low minimal order quantities.

### **Lifetime Warranty**

All Ideal-tek manufactured tools carry a lifetime warranty against defects in material and workmanship. Wear and tear from normal use is not covered by warranty. Abuse and abnormal use is also exempt from warranty coverage. Warranty claims are to be made through dealer where the tool was purchased. All warranty claims are subject to approval by Ideal-tek and may result in tool repair or replacement with tool of equal value.





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