

# FEEL THE DIFFERENCE

THE PROVEN CHOICE. EVERY TIME.

HIGH-PRECISION TOOLS FOR ELECTRONICS DEVICE MANUFACTURING



Swiss  
Made



[www.weller-tools.com](http://www.weller-tools.com)

**Weller**<sup>®</sup>  
Erem

# FEEL THE DIFFERENCE

THE PROVEN CHOICE. EVERY TIME.

Manufactured with uncompromising Swiss quality, and **created especially for electronics applications**, Weller Erem® tools are built to last. The signature high-performance cutters set the industry standard by providing over 1 million consistent precise and accurate movements.

With state-of-the-art advanced features like Magic Spring™, High-Precision Screw Joint, and Maximum Opening Stop Technology, Weller Erem Precision Tools provide the longest durability, highest precision and best quality on the planet.



Swiss  
Made

**Weller Erem products are made and manufactured with uncompromising Swiss quality, created to be strong, durable, sharp and precise**



# Just like a Swiss watch

Highest-quality tools  
and craftsmanship

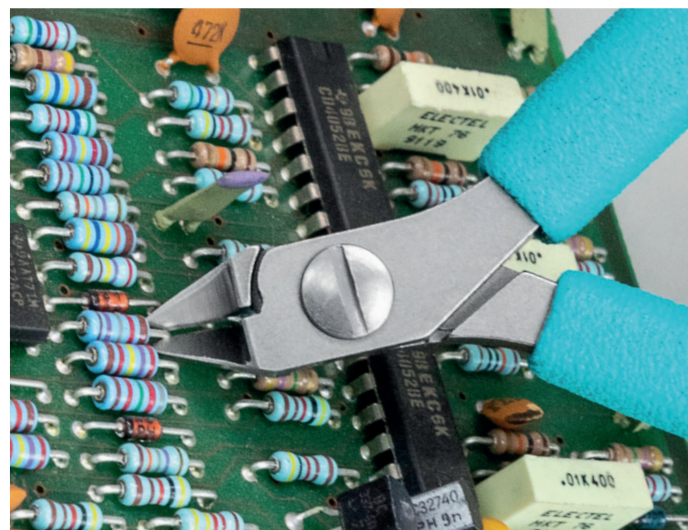


Weller Erem is a leader in the development and production of high-precision, top-quality precision tools (side and tip cutters, pliers and tweezers). Founded in Geneva, Switzerland in 1963, Weller Erem precision tools are the result of ongoing product development and innovation to meet customer demands and the requirements of modern manufacturing techniques.

## Custom-made

**Have a problem? We have the solution with our ability to quickly manufacture the custom tool you need.**

With an estimated 2-week turnaround time, Weller Erem will customize any of our precision tools to meet your applications needs.



## Cutters for electronics applications

A simple method to remove SMD ICs is to cut each of the individual leads to remove the device and then reflow the joint with a soldering iron and remove the component lead from the board.

The solder left on the board can then be removed with a desoldering tool or desolder braid and a new component fitted. The 670EP and 670EPF have fine pointed tapered and relieved heads that are able to fit between individual leads and cut them without causing damage to the printed circuit.

# THE PERFECT CUT

Strong, sharp and precise - every time

**Cutter Electronics Applications:** Remove Fine Pitch SMD ICs | Light engineering and Dental Applications

## + Precision

Experience precise cuts from the high-precision screw joint that enables a smooth action with no jaw overlap

## + Hardening Grade

Cutting blades are hardened to Rockwell 63-65 HRC by an induction heating process for exceptionally long service life

## + 1 Million Movements

Magic Spring™ design enables maximum durability with constant spring force movements

## + Comfort, Security and Grip

Ergonomically-shaped handles provide superior comfort and fatigue-free handling with our Maximum Opening Stop Technology



## ESD Safe

Made from ESD-safe material to prevent damage to sensitive components



Swiss Made

## Cut shape

Three blade options, including Weller Erem's exclusive Super Full Flush cut.



### Semi-flush

- Leaves a pyramidal tip at the end of the wire
- For standard jobs where the final shape does not play a significant role
- For both soft copper wires and very hard wires, such as stainless steel



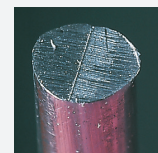
### Flush

- Leaves a much smaller tip at the end of the wire when compared to a Semi-Flush cut – without reducing the cutting ability
- The cutting edges are finer than on semi-flush cutters
- Effort exerted when cutting is less and the load on the component is reduced
- Flush wire ends reduce the effort needed to fit components on printed-circuit boards



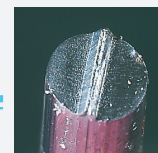
### Super Full Flush

- Provides absolutely flush wire ends, only offered from Weller Erem
- No rework is needed
- Cuts are absolutely precision-ground and sharpened
- Effort exerted when cutting is minimal, as is the load on the component caused by the cut
- Soldering tags in soldering-bath procedures are prevented



Weller Erem

VS



Competitor



# THE PERFECT COMBINATION

Precision, design, symmetry and balance

**Tweezer Electronics Applications:** Microelectronics, Jewelmaking and Watchmaking Applications

## + Comfort

Ergonomically-shaped handles provide superior comfort and fatigue-free handling

## + Wide Range

Weller has a wide range of tweezers made from various material and tips, for the right application

## + Precision

Superior symmetrically pointed tips



## ESD Safe

Made from ESD-safe material to prevent damage to sensitive components



# BUILT TO LAST

Longest lasting durability on the planet

**Pliers Electronics Applications:** For Miniature and standard electronics | Forming, Bending, Laying and Feeding in Wires

## + 1 Million Movements

Magic Spring™ design enables maximum durability with constant spring force movements

## + Comfort, Security and Grip

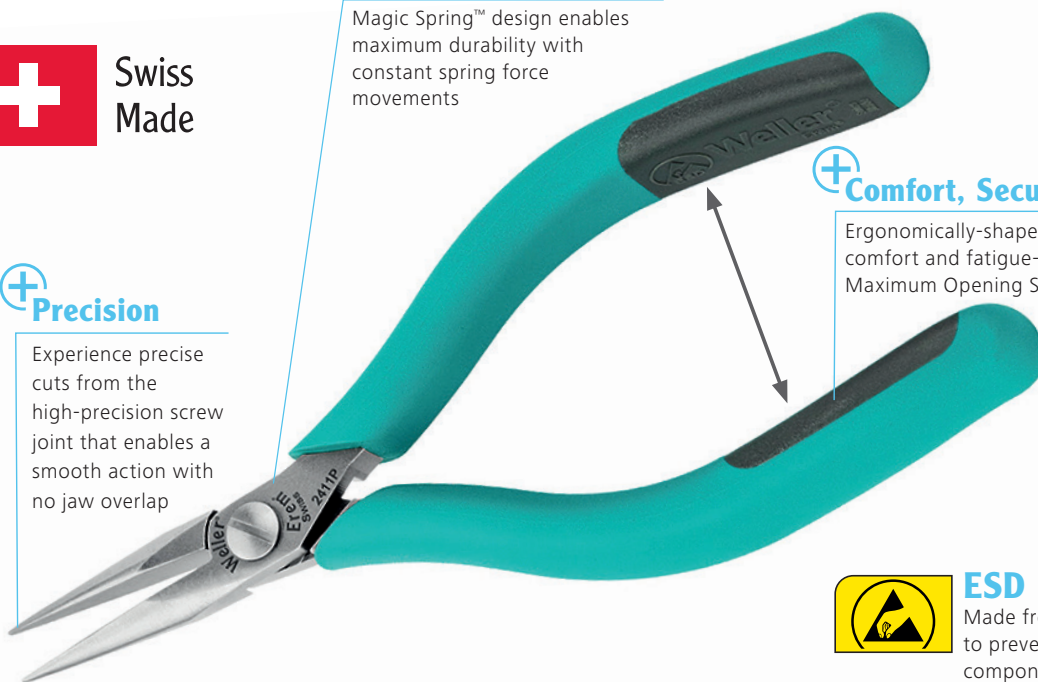
Ergonomically-shaped handles provide superior comfort and fatigue-free handling with our Maximum Opening Stop Technology

## + Precision

Experience precise cuts from the high-precision screw joint that enables a smooth action with no jaw overlap






Swiss Made











## ESD Safe

Made from ESD-safe material to prevent damage to sensitive components

# CUTTERS

| Model   | Cut  | Description  | Key Applications   | Dimensions  |             |             |             | Micro-Electronics | SMD | Carbide | Microscope | Head Size |
|---|--|--|--|-------------|-------------|-------------|-------------|-------------------|-----|---------|------------|-----------|
|   |  |  |  | A (in / mm) | B (in / mm) | C (in / mm) | D (in / mm) |                   |     |         |            |           |
| <b>TOP SELLER</b><br><b>776E</b><br> | <br><b>Full Flush</b>   | <ul style="list-style-type: none"> <li>• Tip cutter – pointed relieved head</li> <li>• This is the narrowest head shape</li> <li>• The underside is relieved and facilitates optimum access even to extremely hard-to-reach areas.</li> </ul>  | General - for all cutting applications with easy access        | 0.354       | 0.354       | 0.236       | 0.630       | ✓                 | ✓   |         | ✓          | SMALL     |
|   |  |  |  | 9           | 9           | 6           | 16          |                   |     |         |            |           |
| <b>612N</b><br>                      | <br><b>Semi-Flush</b>   | <ul style="list-style-type: none"> <li>• Side cutter – oval head</li> <li>• This is the most widely used head shape</li> <li>• Fits for all cutting applications where easy access is given</li> </ul>   | General - for all cutting applications with easy access        | 0.394       | 0.354       | 0.236       | 0.669       | ✓                 | ✓   |         | ✓          | SMALL     |
|   |  |  |  | 10          | 9           | 6           | 17          |                   |     |         |            |           |
| <b>512N</b><br>                      | <br><b>Semi-Flush</b>   | <ul style="list-style-type: none"> <li>• Side cutter - oval head</li> <li>• This is the most widely used head shape</li> <li>• Fits for all cutting applications where easy access is given</li> <li>• It is robust and offers the highest cutting capacity</li> </ul>   | General - for all cutting applications with easy access        | 0.472       | 0.433       | 0.236       | 0.748       | ✓                 | ✓   |         | ✓          | MED       |
|   |  |  |  | 12          | 11          | 6           | 19          |                   |     |         |            |           |
| <b>2412E</b><br>                     | <br><b>Semi-Flush</b>   | <ul style="list-style-type: none"> <li>• Side cutter – oval head</li> <li>• This is the most widely used head shape</li> <li>• Fits for all cutting applications where easy access is given</li> <li>• It is robust and offers the highest cutting capacity</li> <li>• The ergonomic handles and the special materials ensure a soft feel, operating comfort and safety</li> </ul>   | General - for all cutting applications with easy access        | 0.472       | 0.433       | 0.236       | 0.748       | ✓                 | ✓   |         | ✓          | MED       |
|   |  |  |  | 12          | 11          | 6           | 19          |                   |     |         |            |           |
| <b>2482E</b><br>                   | <br><b>Flush</b>      | <ul style="list-style-type: none"> <li>• Side Cutters and Tip Cutters</li> <li>• Tip cutter - angled narrow head</li> <li>• The angled head allows precise cuts at different working angles</li> <li>• Suitable for working on printed-circuit boards, component connections, can be used in both 90° and 180° applications</li> <li>• Ergonomic handle and special materials ensure a soft feel, operating comfort and safety</li> </ul>                                  | General - for all cutting application with limited access, SMD | 0.236       | 0.433       | 0.236       | 1.024       | ✓                 | ✓   |         | ✓          | MED       |
|   |  |  |  | 6           | 11          | 6           | 26          |                   |     |         |            |           |
| <b>2403E</b><br>                   | <br><b>Flush</b>      | <ul style="list-style-type: none"> <li>• Tip cutter - angled wide robust head Oval shape. 30°</li> <li>• Similar to 503E, but with ergonomic handles</li> <li>• The angled head provides for precise cuts at different working angles</li> <li>• The ergonomic handles and special materials ensure a soft feel, operating comfort and safety</li> </ul>   | Electronic, Microelectronic, Wires, PCB boards                 | 0.354       | 0.433       | 0.236       | 0.787       | ✓                 | ✓   |         | ✓          | MED       |
|   |  |  |  | 9           | 11          | 6           | 20          |                   |     |         |            |           |
| <b>599T</b><br>                    | <br><b>Semi-Flush</b> | <ul style="list-style-type: none"> <li>• Side cutter - oval head - hard metal blades</li> <li>• Fits for all cutting applications where easy access is given</li> <li>• This is the most widely used head shape</li> <li>• It is robust and size for size offers the highest cutting capacity</li> </ul>   | Carbide, Wire, Boards, Fine & Standard electronic              | 0.748       | 0.433       | 0.236       | 0.748       | ✓                 | ✓   | ✓       |            | MED       |
|   |  |  |  | 19          | 11          | 6           | 19          |                   |     |         |            |           |
| <b>503ET</b><br>                   | <br><b>Semi-Flush</b> | <ul style="list-style-type: none"> <li>• Tip cutter - angled wide head</li> <li>• Tungsten-carbide cutters</li> <li>• The angled head provides for precise cuts at different working angles</li> </ul>   | Hard and tough wires e.g. piano wire, nickle and diode leads   | 4.331       | 0.433       | 0.236       | 0.795       | ✓                 | ✓   | ✓       |            | MED       |
|   |  |  |  | 9.6         | 11          | 6           | 20.2        |                   |     |         |            |           |
| <b>1500BSF</b><br>                 |  | <ul style="list-style-type: none"> <li>• Pneumatic side cutter and tip cutter. Requires 4 - 6 bar oil-free clean compressed air</li> <li>• Pneumatic cutter</li> <li>• Handy, light and precise</li> <li>• Extremely versatile thanks to a selection of different cutting heads</li> <li>• Easily interchangeable cutting heads</li> <li>• Suitable for cutting conventional components, soft metals or small plastic parts</li> <li>• Pneumatic-cutter housing</li> </ul> | Hard and tough wires e.g. piano wire, nickle and diode leads   |             |             |             |             | ✓                 | ✓   |         |            |           |







# CUTTERS

| Model   | Cut   | Description   | Key Applications   | Dimensions  |             |             |             | Micro-Electronics | SMD | Carbide | Microscope | Head Size |
|---------|---|---|--|-------------|-------------|-------------|-------------|-------------------|-----|---------|------------|-----------|
|         |   |   |  | A (in / mm) | B (in / mm) | C (in / mm) | D (in / mm) |                   |     |         |            |           |
| T622N   | <br>Full Flush   | <ul style="list-style-type: none"> <li>Side cutter – oval head</li> <li>Most widely used head shape</li> <li>Fits for all cutting applications where easy access is given</li> <li>It is robust and size for size offers the highest cutting capacity</li> </ul>  | Micro & Fine electronic  | 0.394       | 0.354       | 0.236       | 0.669       | ✓                 | ✓   |         | ✓          | MICRO     |
|         |   |   |  | 10          | 9           | 6           | 17          |                   |     |         |            |           |
| 530E15A | <br>Full Flush   | <ul style="list-style-type: none"> <li>Distance cutter, variable cutting length from 1.2 mm to 6 mm/ 0.47 to .236 inch</li> <li>Special tool steel, ESD-safe, Variable cutting length (= V)</li> <li>Protective stop screw</li> </ul>   | Micro electronics, PCB, SMD, for cutting wires to the right length and for fixing components             | 4.921       | 0.433       | 0.236       | 1.142       | ✓                 | ✓   |         | ✓          | MED       |
|         |   |   |  | 125         | 11          | 6           | 29          |                   |     |         |            |           |
| E147A   | <br>Semi-Flush   | <ul style="list-style-type: none"> <li>Side cutter with compound action</li> <li>For cutting hard wires with minimal effort</li> </ul>  | Guide Wires, Stents, Catheters, Single/ Multiple Filers, Lateral/ Internal Cuts, Electronic applications | 0.394       | 0.630       | 0.295       | 0.630       | ✓                 | ✓   | ✓       |            | MAXI      |
|         |   |   |  | 10          | 16          | 7.5         | 16          |                   |     |         |            |           |
| 886E    | <br>Full Flush   | <ul style="list-style-type: none"> <li>Side cutter - tapered head</li> <li>Jaws have straight edges and taper to a point. Head shape allows access to difficult-to-reach areas in comparison to the same size oval head cutter</li> </ul>   | Hard and tough components  |             | 0.531       | 0.284       | 0.827       | ✓                 | ✓   |         |            | MAXI      |
|         |   |   |  |             | 13.5        | 7.2         | 21          |                   |     |         |            |           |
| 2422E   | <br>Full Flush  | <ul style="list-style-type: none"> <li>Side cutter - oval head</li> <li>Offers the highest cutting capacity</li> <li>Most widely used head shape</li> <li>Fits all cutting applications where easy access is given</li> <li>The ergonomic handles and the special materials ensure a soft feel, operating comfort and safety</li> </ul> | Micro electronics  | 0.748       | 0.433       | 0.236       | 0.748       |                   |     | ✓       |            | MED       |
|         |   |   |  | 12          | 11          | 6           | 19          |                   |     |         |            |           |
| 599FO   | <br>Semi-Flush | <ul style="list-style-type: none"> <li>Fibre optic tools</li> <li>High precision for optical fibres - special tool steel</li> <li>Side cutter, suitable for cutting Kevlar® silks</li> <li>Avoid any other application than cutting Kevlar silks to avoid damaging the tool</li> </ul>  | Stainless Steel Coil Wires, Kevlar®, Vectran™ Braided Wires, Fiber Optics                                | 0.472       | 0.433       | 0.24        | 0.748       | ✓                 |     |         | ✓          | MED       |
|         |   |   |  | 12          | 11          | 6           | 19          |                   |     |         |            |           |
| 884EPCM | <br>Full Flush | <ul style="list-style-type: none"> <li>Side cutter flush cut, for PCB separation only</li> <li>Side cutter, suitable for cutting printed-circuit boards</li> </ul>  | Micro & Standard electronics   |             |             |             |             | ✓                 |     |         |            | MAXI      |
|         |   |   |  |             |             |             |             |                   |     |         |            |           |
| 505C    | <br>Full Flush | <ul style="list-style-type: none"> <li>IC and SMD tools for inserting, extracting, straightening and cutting IC and SMD components</li> <li>Inserting and extracting 14-16 pins</li> <li>Non-reflecting surface</li> <li>ESD-safe</li> </ul>  | Micro & Standard electronics, SMD rework   | 4.724       | 0.433       |             |             | ✓                 | ✓   |         |            | MEDIUM    |
|         |   |   |  | 120         | 11          |             |             |                   |     |         |            |           |




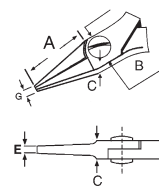

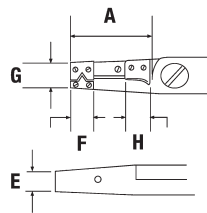



The items listed are the most popular Weller Erem products for the electronic's industry.

# CUTTERS

| Model  | Cut   | Description  | Key Applications                                       | Dimensions  |             |             |             | Micro-Electronics | SMD | Carbide | Microscope | Head Size |
|--|---|--|--|-------------|-------------|-------------|-------------|-------------------|-----|---------|------------|-----------|
|  |   |  |  | A (in / mm) | B (in / mm) | C (in / mm) | D (in / mm) |                   |     |         |            |           |
| <b>TOP SELLER</b><br>522N<br> | <br>Full Flush | <ul style="list-style-type: none"> <li>Side cutter - oval head</li> <li>This is the most widely used head shape</li> <li>Fits for all cutting applications where easy access is given</li> <li>It is robust and offers the highest cutting capacity</li> </ul> | General - for all cutting application with easy access | 0.472       | 0.433       | 0.236       | 0.748       | ✓                 | ✓   |         | ✓          | MEDIUM    |
|  |   |  |  | 12          | 11          | 6           | 19          |                   |     |         |            |           |
| 539EREC<br>                   | <br>Full Flush | <ul style="list-style-type: none"> <li>Distance cutter with patented receptacle</li> <li>Prevents residual wire contamination</li> </ul>   | Micro & Standard electronics, PCB                      | 0.472       | 0.433       | 0.236       | 0.728       | ✓                 | ✓   |         |            | MEDIUM    |
|  |   |  |  | 12          | 11          | 6           | 18.5        |                   |     |         |            |           |
| 2622NB<br>                    | <br>Full Flush | <ul style="list-style-type: none"> <li>Side cutter – pointed relieved head</li> <li>This is the narrowest head shape</li> <li>The underside is relieved and facilitates optimum access even to extremely hard-to-reach areas</li> </ul>                        | Micro & Standard electronics                           | 0.236       | 0.354       | 0.236       | 0.630       | ✓                 | ✓   |         |            | SMALL     |
|  |   |  |  | 6           | 9           | 6           | 16          |                   |     |         |            |           |

# PLIERS

| MODEL   | DESCRIPTION   | Key Applications   | Dimensions  |             |             |             |             |             | Micro-Electronics  | SMD | Carbide | Microscope | Head Size |
|---|---|--|-------------|-------------|-------------|-------------|-------------|-------------|--|-----|---------|------------|-----------|
|   |   |  | A (in / mm) | B (in / mm) | C (in / mm) | D (in / mm) | E (in / mm) | G (in / mm) |  |     |         |            |           |
| 2443P<br>   | <ul style="list-style-type: none"> <li>Round nose pliers with very precise, smooth jaws</li> <li>Pliers for miniature and standard electronics</li> <li>Optimized ergonomically shaped handles for increased comfort</li> <li>Non-reflecting surface, ESD-safe</li> <li>Suitable for bending wires</li> </ul>   | Fine and Standard electronic, bending wire   | 5.748       | 0.433       | 0.236       | 1.594       | 0.031       | 0.063       | ✓  | ✓   |         |            | MEDIUM    |
|   |   |  | 146         | 11          | 6           | 40.5        | 0.8         | 1.6         |  |     |         |            |           |
| 2442P<br>  | <ul style="list-style-type: none"> <li>Flat nose pliers</li> <li>Pliers for miniature and standard electronics</li> <li>Optimized ergonomically shaped handles for increased comfort</li> <li>Non-reflecting surface, ESD-safe</li> <li>Suitable for gripping flat workpieces</li> <li>With smooth jaws and precision-machined edges</li> </ul>   | Miniature and standard electronics   | 1.307       | 0.433       | 0.236       | 1.594       | 0.134       | 0.047       | ✓  | ✓   |         | ✓          | MEDIUM    |
|   |   |  | 33.2        | 11          | 6           | 40.5        | 3.4         | 1.2         |  |     |         |            |           |
| 531E<br>   | <ul style="list-style-type: none"> <li>Flat nose pliers with replaceable nylon jaws</li> <li>Non-reflecting surface, ESD-safe, high grade tool steel</li> <li>Nylon jaws prevent nicking and scratching</li> </ul>  | Forming and handling components while preventing scratching and nicking for miniature and standard electronics | 0.91        | 0.43        | 0.24        |             | 0.2         | 0.12        |  <p>A = Jaw length<br/>B = Head width<br/>C = head thickness<br/>E = Width of tips<br/>G = Total height of both tips</p>                              |     |         |            |           |
|   |   |  | 23          | 11          | 6           |             | 5           | 3           |  |     |         |            |           |
| 552S<br>   | <b>Wire Stripper:</b> <ul style="list-style-type: none"> <li>Suitable for all types of insulation, Teflon®, Tefzel and optical fibres</li> <li>Unlimited stripping length thanks to side stripping</li> <li>Suitable for simple and precise stripping of optical fibres</li> <li>Non-reflecting surface</li> <li>Robust, high-precision tools for use in electronics and aeronautical engineering</li> <li>The required diameter is set by means of screws</li> <li>Screwdriver and key are included</li> <li>Interchangeable blades</li> <li>ESD-safe</li> <li>Unique precision for damage-free stripping of fine wires</li> </ul> | All Types of Insulation, Teflon, Tefzel and optical fibers.  |             |             |             |             | 0.433       | 0.354       |  <p>A = Jaw length<br/>B = Width of tips<br/>C = Depth of interchangeable blade<br/>E = Total height of both tips<br/>G = Length of cutting blade</p> |     |         |            |           |
|   |   |  |             |             |             |             | 11          | 9           |  |     |         |            |           |
| 2411PD<br> | <ul style="list-style-type: none"> <li>Needle nose pliers with very precise and rounded jaws</li> <li>Non-reflecting surface, ESD-safe</li> <li>Inside serrated jaws for better grip</li> </ul>   | For miniature and standard electronics application   | 1.307       | 0.433       | 0.236       | 5.291       | 0.039       | 0.047       | ✓  | ✓   |         | ✓          | MEDIUM    |
|   |   |  | 33.2        | 11          | 6           | 150         | 1           | 1.2         |  |     |         |            |           |



# TWEEZERS

| Model   | Shape   | Description   | Key Applications  | Length (in/mm) | Weight (oz/g) | Micro-Electronics | SMD | Microscope | Various Electronic | Material        | Head Size              |
|---------|---|---|---|----------------|---------------|-------------------|-----|------------|--------------------|-----------------|------------------------|
| 3SA     |    | <ul style="list-style-type: none"> <li>Suitable for delicate standard applications and precision work on small components or wires</li> <li>Special stainless steel, non-magnetic, non-rusting, acid-proof, heat-resistant</li> </ul>   | General purpose use in microelectronics, medical and laboratories   | 4.724          | 0.49          |                   | ✓   |            | ✓                  | Stainless Steel | Fine Point             |
|         |   |   |   | 120            | 14            |                   |     |            |                    |                 |                        |
| 102ACAX |    | <ul style="list-style-type: none"> <li>SMD tweezers, angled 45°, with pointed tips for vertical application, and reverse clamping action for easy holding</li> </ul>  | SMD with different designs (chip, MELFs, mini MELFs)  | 0.010          | 0.49          | ✓                 | ✓   | ✓          | ✓                  | Stainless Steel | Fine Point             |
|         |   |   |   | 0.25           | 14            |                   |     |            |                    |                 |                        |
| 2ASASL  |    | <ul style="list-style-type: none"> <li>Precision tweezers with flat rounded tips for gripping, small components. Tip width 2 mm/.078 Inch</li> <li>Special stainless steel, nonmagnetic, non-rusting, acid-proof, heat-resistant</li> </ul>   | Standard gripping applications and assembly jobs on printed-circuit boards, e.g. in the goldsmith and jewelry industries                                      | 4.843          | 0.564         | ✓                 | ✓   | ✓          | ✓                  | Stainless Steel |                        |
|         |   |   |   | 123            | 16            |                   |     |            |                    |                 |                        |
| E3CSA   |    | <ul style="list-style-type: none"> <li>Ergonomic precision tweezers with long, straight and pointed tips, e.g. for assembly jobs on printed-circuit boards</li> <li>Thermally insulated, soft foam handles, ESD-safe</li> </ul>   | Standard gripping applications and assembly jobs on printed-circuit boards, e.g. in the goldsmith and jewelry industries                                      | 4.724          | 0.582         | ✓                 | ✓   | ✓          | ✓                  | Stainless Steel |                        |
|         |   |   |   | 120            | 17            |                   |     |            |                    |                 |                        |
| 024C    |    | <ul style="list-style-type: none"> <li>Extraction tweezers for Sub-D connectors.</li> </ul>   | Suitable for extracting contacts from the rear of a plug connector  | 4.724          | 0.53          | ✓                 | ✓   | ✓          | ✓                  | Stainless Steel |                        |
|         |   |   |   | 120            | 15            |                   |     |            |                    |                 |                        |
| 258SA   |    | <ul style="list-style-type: none"> <li>Precision tweezers with pointed synthetic tips (PPS) and serrated finger grips for secure handling</li> <li>Volume resistance 16 Ω/cm. Heat-resistant up to 250°C (480°F)</li> <li>Resistant to acids and molten soldering tin. Water-repellent</li> </ul> | Microscope, applications with acids and molten soldering tin.   | 4.724          | 0.53          |                   |     | ✓          | ✓                  | Stainless Steel |                        |
|         |   |   |   | 120            | 15            |                   |     |            |                    |                 |                        |
| 141SAP  |   | <ul style="list-style-type: none"> <li>Wafer tweezers with polyester tips for protecting Si, GaAs or Ti wafers against damage. For 4" – 6" wafers.</li> </ul>   | All Wafer applications  | 5.906          | 1.05          |                   |     |            |                    | Stainless Steel |                        |
|         |   |   |   | 150            | 30            |                   |     |            |                    |                 |                        |
| OOSA    |  | <ul style="list-style-type: none"> <li>Precision tweezers with pointed tips. Very robust. Suitable for standard applications, e.g. for assembly in electronics</li> <li>Special stainless steel, non-magnetic, non-rusting, acid-proof, heat-resistant</li> </ul>                                 | General purpose use in microelectronics, medical and laboratories Suitable for delicate standard applications and precision work on small components or wires | 4.724          | 0.71          |                   | ✓   |            | ✓                  | Stainless Steel | Fine Point             |
|         |   |   |   | 120            | 30            |                   |     |            |                    |                 |                        |
| 15AGW   |  | <ul style="list-style-type: none"> <li>Cutting tweezers with narrow oblique head</li> <li>Hardened cutting edges for long service life</li> <li>Suitable for cutting fine, soft wires and small components</li> </ul>   | Designed for cutting fine soft wires up to dia. 0.25 mm/.010 in. and small components   | 4.528          | 0.74          |                   | ✓   |            | ✓                  | Carbon Steel    | 0.216 narrowed to a pt |
|         |   |   |   | 115            | 21            |                   |     |            |                    |                 |                        |
| 51SA    |  | <ul style="list-style-type: none"> <li>Precision tweezers, curved 30°, relieved</li> <li>Very pointed tips</li> <li>Relieved shape at front of handle provide excellent visibility of the area to be worked on</li> </ul>   | Applications in biology, medicine, laboratory technology and microelectronics   | 4.528          | 0.42          | ✓                 | ✓   | ✓          | ✓                  | Stainless Steel |                        |
|         |   |   |   | 115            | 12            |                   |     |            |                    |                 |                        |
| 7SA     |  | <ul style="list-style-type: none"> <li>Precision tweezers, curved, relieved, with pointed tips</li> <li>Bent shape facilitates access to confined spaces</li> <li>Special stainless steel, nonmagnetic, non-rusting, acid-proof, heat-resistant</li> </ul>  | For applications in biology, medicine, laboratory technology and microelectronics   | 4.724          | 0.53          |                   | ✓   |            | ✓                  | Stainless Steel | Very Fine              |
|         |   |   |   | 120            | 15            |                   |     |            |                    |                 |                        |
| 249CER  |  | <ul style="list-style-type: none"> <li>Precision tweezers with ceramic tips and serrated finger grips for secure handling. Volume resistance 16 Ω/cm. Heat-resistant up to 900°C (1500°F). Resistant to acids and molten soldering tin. Water-repellent</li> </ul>                                | General purpose use in microelectronics, medical and laboratories   | 5.118          | 0.84          | ✓                 | ✓   | ✓          | ✓                  | Stainless Steel | Very Fine              |
|         |   |   |   | 130            | 24            |                   |     |            |                    |                 |                        |
| B15AGS  |  | <ul style="list-style-type: none"> <li>Black cutting tweezers with narrow oblique head. For soft wires up to dia. 0.25 mm/.010 Inch</li> <li>Hardened cutting edges for long service life</li> </ul>  | Cutting fine, soft wires and small components   | 4.528          | 0.741         | ✓                 | ✓   | ✓          | ✓                  | Carbon Steel    |                        |
|         |   |   |   | 115            | 21            |                   |     |            |                    |                 |                        |
| 29W30   |  | <ul style="list-style-type: none"> <li>Stripping tweezers with synthetic fibre handle. For wires of dia. 0.25 – 0.3 mm/.010 – .011 Inch (AWG 30 – 28).</li> <li>For standard and Teflon® insulation</li> </ul>  | Stripping fine wires with PVC or Teflon® insulation   | 4.724          | 0.99          |                   |     |            | ✓                  | Stainless Steel |                        |
|         |   |   |   | 120            | 28            |                   |     |            |                    |                 |                        |



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Weller Tools GmbH  
Carl-Benz-Straße 2  
74354 Besigheim

Tel: +49 (0) 7143 580-0  
Fax: +49 (0) 7143 580-108

### CHINA

Apex Tool Group  
Room 302A, NO 177 Bibo Road  
Shanghai 201203

Tel: +86 (21) 60880288  
Fax: +86 (21) 60880289

### USA

Apex Tool Group, LLC  
670 Industrial Drive  
Lexington, SC 29072

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