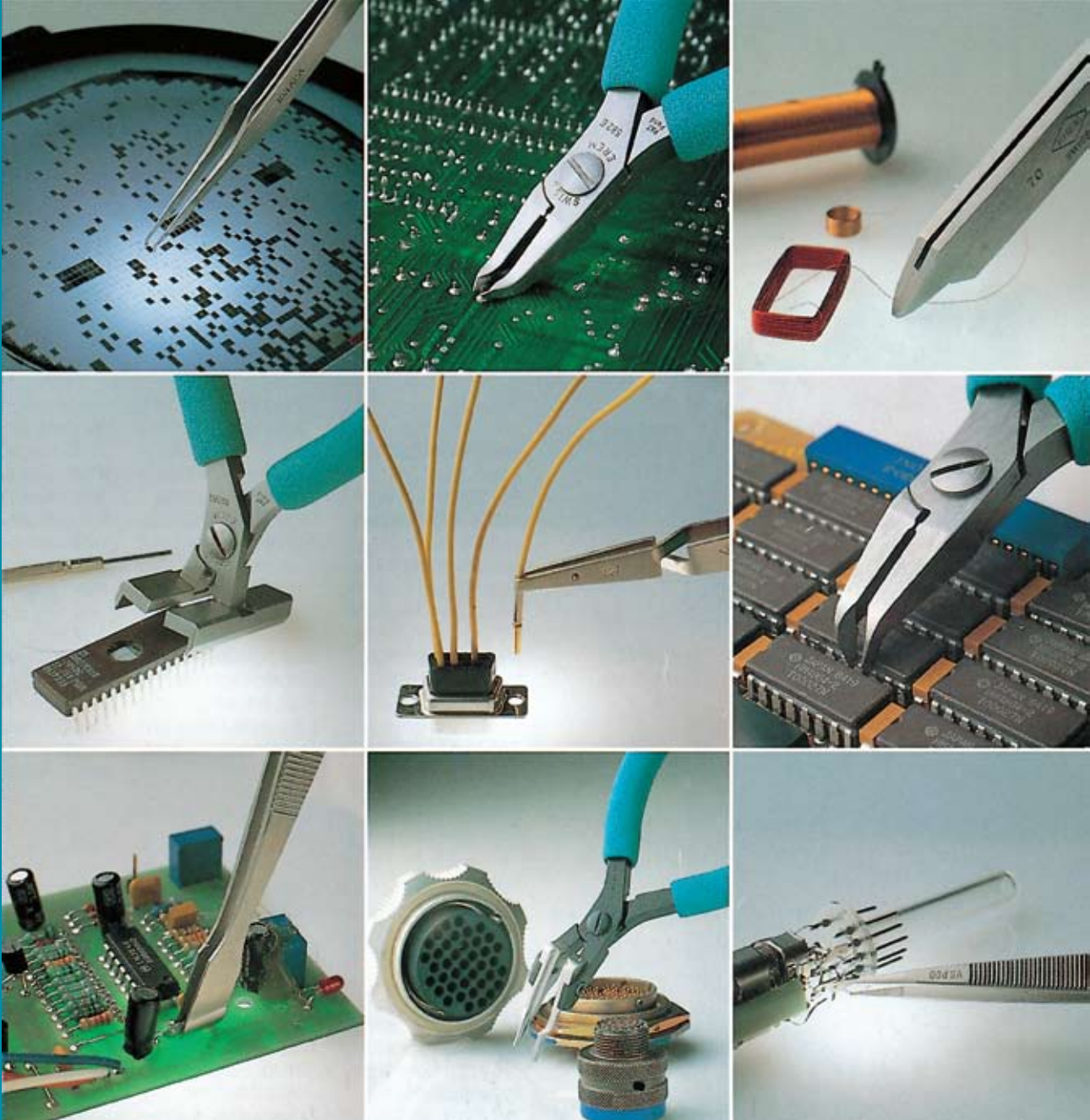


Erem™

The quality and performance of our erem precision tools are the product of more than 40 years of development and know-how. Made in Switzerland, Erem tools are the result of constant product development and innovation to meet customer demands and the requirements of modern manufacturing techniques. Constantly changing market developments encourage Erem to design and manufacture forward looking tools for applications in the fields of electronics, aviation/aerospace, biology, medical accessories, the watch industry, and telecommunications. Erem tools enjoy the deserved high reputation of Swiss precision manufacture and our expertise, combined with ease of use and operator comfort make them an ideal partner in global manufacturing processes.



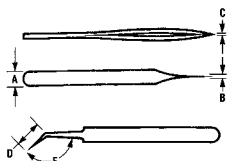
High Precision Tweezers

Erem Tweezers Introduction

The following pages show a selection of Erem high precision tweezers for the electronics industry. They are available in various shapes, finish, and materials such as:
Temperature resistant to 300°C.

| Suffix | Material |
|--------|-----------------------------------|
| S | Stainless Steel. |
| SA | Non-magnetic, anti-acid alloy. |
| N | Non-magnetic nickel-silver alloy. |
| TA | Non-magnetic titanium. |
| None | Tempered carbon steel. |

Reference Dimensions



Erem Coatings

The exclusive Erem Pyroplast coating is available by special order on many models. This coating protects sensitive parts against temperature change.

Features and benefits:

- Twice the heat resistance of Teflon (500°C).
- The non-stick property of the Pyroplast coating results in no capillary effect on the tweezers tips while soldering.
- No contamination can be caused by either a positive or negative charge.
- Resistant to radiation.
- Coating thickness is 40 microns.

Typical applications for Erem high precision tweezers:






- Electronic assembly
- Component handling
- Soldering
- Wire and lead cutting
- Gripping
- Wafer handling
- Wire stripping
- Biomedical





Pointed Tips Straight

| | Description | Material No. | Shelf Pack |
|--|--|--------------|------------|
| | <ul style="list-style-type: none"> • Precision micro tweezers • Stainless Steel • Very small and fine tips • 80mm, 6g | M5S | |
| | <ul style="list-style-type: none"> • Precision tweezers • Special Stainless Steel • Non-magnetic • Serrated grips • 108mm, 16g | ACSA | |
| | <ul style="list-style-type: none"> • Precision micro tweezers • Stainless Steel • Serrated grips and inside serrated tips • Guide pin to avoid tip overlapping • 80mm, 6g | 20AS | |
| | <ul style="list-style-type: none"> • Precision tweezers • Stainless Steel • Long tips • 110mm, 11g | 3CS | |
| | <ul style="list-style-type: none"> • Precision tweezers • Special Stainless Steel • Non-magnetic • Shorter tips than 3CS • 110mm, 11g | 3CSA | |
| | same as 3CSA but economy model | 3CSASL | |
| | <ul style="list-style-type: none"> • Precision tweezers • Titanium • Non-magnetic • Same as 3CSA but Titanium for heat resistance and light weight • 110mm, 8g | 3CTA | |
| | <ul style="list-style-type: none"> • Precision tweezers for handling of delicate parts • Special Stainless Steel • Non-magnetic • 110mm, 11g | 53CSA | |






Pointed Tips Straight (cont.)

| | Description | Material No. | Shelf Pack |
|---|--|--------------|------------|
|  | <ul style="list-style-type: none"> • Precision tweezers • Special Stainless Steel • Non-magnetic • Fine tips • 120mm, 14g | 3SA | |
| | same as 3SA but economy model | 3SASL | |
|  | <ul style="list-style-type: none"> • Precision tweezers • Special Stainless Steel • Non-magnetic • Thicker tips than 3SA • 120mm, 14g | 1SA | |
| | same as 1SA but economy model | 1SASL | |
|  | <ul style="list-style-type: none"> • Precision tweezers • Special Stainless Steel • Non-magnetic • Flat inside tips, very resistant • 120mm, 14g | 00SA | |
| | same as 00SA but economy model | 00SASL | |
|  | <ul style="list-style-type: none"> • Precision tweezers • Special Stainless Steel • Non-magnetic • Same as 00SA but shorter • 120mm, 18g | 00CSA | |
|  | <ul style="list-style-type: none"> • Precision tweezers with serrated grips • Special Stainless Steel • Non-magnetic • Same as 00SA but with serrated tips • 120mm, 20g | 00BSA | |
|  | <ul style="list-style-type: none"> • Precision tweezers • Same as 00SA but with serrated grips and inside serrated tips • Special Stainless Steel • Non-magnetic • 120mm, 20g | 00DSA | |
|  | <ul style="list-style-type: none"> • Precision tweezers with serrated grips • Special Stainless Steel • Non-magnetic • 120mm, 17g | 64SA | |
|  | <ul style="list-style-type: none"> • Precision tweezers • Nickel-Silver alloy • Absolute non-magnetic • 120mm, 17g | 11N | |
|  | <ul style="list-style-type: none"> • Precision tweezers • Nickel plated • 120mm, 16g | AAZ | |
|  | <ul style="list-style-type: none"> • Precision tweezers • Stainless Steel • Short but fine tips • 125mm, 16g | AAS | |
|  | <ul style="list-style-type: none"> • Precision tweezers • Special Stainless Steel • Non-magnetic • 12mm, 16g | AASA | |
| | same as AASA but economy version | AASASL | |



Pointed Tips Straight (cont.)

| | Description | Material No. | Shelf Pack | |
|--|---|--------------|------------|--|
|  | <ul style="list-style-type: none"> • Precision tweezers Brass • Soft metal protects sensitive parts against damage • No sparks • 125mm, 17g | AM | | |
|  | <ul style="list-style-type: none"> • Precision tweezers with synthetic (PPS) tips • Special Stainless Steel • Non-magnetic • Heat resistant up to 250°C • Serrated grips • 130mm, 20g | 249SA | | |
|  | <ul style="list-style-type: none"> • Precision tweezers with Ceramic tips • Special Stainless Steel • Non-magnetic • Heat resistant up to 900°C • 130mm, 24g | 249CER | | |
|  | <ul style="list-style-type: none"> • Precision tweezers • Stainless Steel • Large, very strong, long version • 140mm, 30g | RRS | | |
|  | <ul style="list-style-type: none"> • Precision tweezers • Special Stainless Steel • Non-magnetic • Very narrow and long handles • Low tension • 140mm, 11g | SSSA | | |
|  | <ul style="list-style-type: none"> • Precision tweezers reverse action • Fibre-grip handles • Special Stainless Steel • Non-magnetic • 150mm, 26g | 29SA | | |
|  | <ul style="list-style-type: none"> • Precision tweezers with serrated grips and inside serrated tips • Long version, strong • Special Stainless Steel • Non-magnetic • 160mm, 23g | 21SA | | |

Pointed Tips Straight Relieved

| | | | | |
|--|---|-------|--|--|
|  | <ul style="list-style-type: none"> • Micro precision tweezers • Stainless Steel • Very small, very fine tips • 90mm, 9g | M4AS | | |
|  | <ul style="list-style-type: none"> • Precision tweezers, with very fine tips • Special Stainless Steel • Non-magnetic • 110mm, 13g | 4SA | | |
| | same as 4SA but economy model | 4SASL | | |
|  | <ul style="list-style-type: none"> • Micro precision tweezers, with extremely fine tips (~ 0,03 x 0,07 mm) • Stainless Steel • 115mm, 12g | 5MBS | | |
|  | <ul style="list-style-type: none"> • Micro precision tweezers, with extremely fine tips (~ 0,05 x 0,1 mm) • Special Stainless Steel • Non-magnetic • 115mm, 12g | 5FSA | | |
|  | <ul style="list-style-type: none"> • Precision tweezers, with very fine tips • Special Stainless Steel • Non-magnetic • 115mm, 12g | 5SA | | |



Pointed Tips Straight Relieved (cont.)

| Description | Material No. | Shelf Pack | |
|---|--------------|------------|--|
| same as 5SA but economy model | 5SASL | | |
|  <ul style="list-style-type: none"> • Precision tweezers with medium size tips • Special Stainless Steel • Non-magnetic • 115mm, 16g | 2SA | | |
| same as 2SA but economy model | 2SASL | | |
|  <ul style="list-style-type: none"> • Precision tweezers with synthetic (PPS) tips • Special Stainless Steel • Non-magnetic • ESD safe • Heat resistant up to 250°C • 120mm, 15g | 258SA | | |





Pointed Tips Bent

| | | | |
|---|--------|--|--|
|  <ul style="list-style-type: none"> • Precision tweezers with fine tips • Curved 40° • Stainless Steel • 110mm, 15g | 3CBS | | |
|  <ul style="list-style-type: none"> • Precision tweezers with fine tips • Curved 30° • Special Stainless Steel • Non-magnetic, relieved • 115mm, 12g | 5CSA | | |
|  <ul style="list-style-type: none"> • Precision tweezers with very fine tips • Curved 30° • Special Stainless Steel • Non-magnetic, relieved • 115mm, 12g | 5BSA | | |
|  <ul style="list-style-type: none"> • Precision tweezers with finer tips than 5CSA • Curved 30° • Special Stainless Steel • Non-magnetic, relieved • 115mm, 12g | 51SA | | |
| same as 51SA but economy model | 51SASL | | |
|  <ul style="list-style-type: none"> • Precision tweezers with fine tips • Oblique 15° • Special Stainless Steel • Non-magnetic • 115mm, 12g | 5ASA | | |
| same as 5ASA but economy model | 5ASASL | | |
|  <ul style="list-style-type: none"> • Precision tweezers with fine tips • Curved • Special Stainless Steel • Non-magnetic, relieved • 120mm, 15g | 7SA | | |
| same as 7SA but economy model | 7SASL | | |
|  <ul style="list-style-type: none"> • Precision tweezers bent 50° • Fine tips, long version • Special Stainless Steel • Non-magnetic • 140mm, 11g | 65ASA | | |









Pointed Tips Bent (cont.)

| | Description | Material No. | Shelf Pack |
|--|--|--------------|------------|
|  | <ul style="list-style-type: none"> Precision tweezers bent 40° Alignment pin Serrated grips and inside serrated tips Special Stainless Steel Non-magnetic 150mm, 22g | 24SA | |
|  | <ul style="list-style-type: none"> Precision tweezers bent 50° with fibre-grip handles Reverse action Special Stainless Steel Non-magnetic 150mm, 26g | 30SA | |







Flat Round Tips Straight

| | | | |
|--|--|---------|--|
| | <ul style="list-style-type: none"> Precision tweezers Non-magnetic Medium round tips for gripping tip side 2mm 120mm, 15g | 2ASASL | |
|  | same as 2ASA but Teflon coated tips for handling delicate parts | 2ASASLT | |
|  | <ul style="list-style-type: none"> Precision tweezers with anti-adhesive coated tips for handling adhesive parts Special Stainless Steel Non-magnetic 120mm, 16g | 2ASARU | |
|  | <ul style="list-style-type: none"> Precision tweezers with flat round tips Serrated grips Special Stainless Steel Non-magnetic 120mm, 15g | 25SA | |
|  | <ul style="list-style-type: none"> Precision tweezers Crush-proof design for handling delicate parts Special Stainless Steel Non-magnetic 120mm, 15g | 52ASA | |

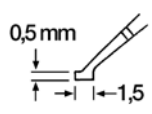
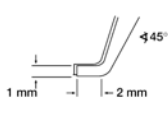
Precision Tweezers with Ergonomic Handles

| | | | |
|--|---|---|--|
|  | <ul style="list-style-type: none"> Precision tweezers with very fine tips Special Stainless Steel Non-magnetic ESD safe 120mm, 25g | E5SA  ESD SAFE | |
|  | <ul style="list-style-type: none"> Precision tweezers with long fine tips Special Stainless Steel Non-magnetic ESD safe 120mm, 25g | E3CSA  ESD SAFE | |
|  | <ul style="list-style-type: none"> Precision tweezers with straight and sturdy tips Special Stainless Steel Non-magnetic ESD safe 120mm, 30g | EOOSA  ESD SAFE | |
|  | same as EOOSA but serrated tips | EOODSA  ESD SAFE | |




Precision Tweezers with Ergonomic Handles (cont.)

| | Description | Material No. | Shelf Pack |
|---|---|---|------------|
|  | <ul style="list-style-type: none"> • Precision tweezers curved • Special Stainless Steel • Non-magnetic • ESD safe • 120mm, 28g | <p>E7SA</p>  | |
|  | <ul style="list-style-type: none"> • Precision tweezers flat round tips • Special Stainless Steel • Non-magnetic • ESD safe • 120mm, 28g | <p>E2ASA</p>  | |
|  | <ul style="list-style-type: none"> • Cutting tweezers • Carbon steel • ESD safe • 120mm, 30g | <p>E15AGW</p>  | |

SMD Tweezers

| | | | | |
|---|--|--|---------|--|
|  | <ul style="list-style-type: none"> • SMD tweezers • Angled head 45° • Special Stainless Steel • Non-magnetic • 115mm, 15g |  | 102ACA | |
|  | <ul style="list-style-type: none"> • SMD tweezers • Angled head 45°, reverse action • Special Stainless Steel • Non-magnetic • 115mm, 14g | | 102ACAX | |
|  | <ul style="list-style-type: none"> • SMD tweezers • Angled head 45° • Special Stainless Steel • Non-magnetic • 115mm, 15g |  | 103ACA | |
|  | <ul style="list-style-type: none"> • SMD tweezers curved head Ø 0,3 mm • Serrated grips • Special Stainless Steel • Non-magnetic • 110mm, 15g | | 39SA | |
|  | <ul style="list-style-type: none"> • SMD tweezers curved head Ø 0,4 mm • Serrated grips • Special Stainless Steel • Non-magnetic • 110mm, 15g | | 40SA | |
|  | <ul style="list-style-type: none"> • SMD tweezers curved head Ø 1,2 - 2,5 mm • Serrated grips • Special Stainless Steel • Non-magnetic • 120mm, 13g | | 150SAMB | |
|  | <ul style="list-style-type: none"> • SMD tweezers curved head Ø 1,5 - 3 mm • Serrated grips • Special Stainless Steel • Non-magnetic • 120mm, 13g | | 150SAD | |
|  | <ul style="list-style-type: none"> • SMD tweezers curved head Ø 1,5-3 mm • Serrated grips • Special Stainless Steel • Non-magnetic • 120mm, 13g | | 150SA | |
|  | <ul style="list-style-type: none"> • SMD tweezers curved head Ø 3-6 mm • Serrated grips • Special Stainless Steel • Non-magnetic • 120mm, 13g | | 151SA | |
|  | <ul style="list-style-type: none"> • SMD tweezers bent 45° • Curved head Ø 5 mm • Special Stainless Steel • Non-magnetic • 115mm, 17g | | 32BSA | |






SMD Tweezers (cont.)

| | Description | Material No. | Shelf Pack | |
|--|--|--------------|------------|--|
|  | <ul style="list-style-type: none"> • SMD tweezers bent 45° • Curved head Ø 2 mm • Special Stainless Steel • Non-magnetic • 115mm, 17g | 32BSA20 | | |
|  | <ul style="list-style-type: none"> • SMD tweezers bent 45° • Curved head Ø 2,5 mm • Special Stainless Steel • Non-magnetic • 115mm, 17g | 32BSA25 | | |
|  | <ul style="list-style-type: none"> • SMD tweezers bent 40° • Curved head Ø 1,2-2,5 mm, serrated grips • Special Stainless Steel • Non-magnetic • 115mm, 13g | 150SAMB | | |

Special Gripping Tweezers

| | | | | |
|--|--|-------|--|--|
|  | <ul style="list-style-type: none"> • Gripping tweezers with locking clip • Stainless Steel • 120mm, 17g | 940AS | | |
|--|--|-------|--|--|

Wafer Tweezers

| | | | | |
|--|--|---------|--|--|
|  | <ul style="list-style-type: none"> • Wafer tweezers 3"-4" • Serrated grips • Special Stainless Steel • Non-magnetic • 125mm, 15g | 91SA | | |
|  | <ul style="list-style-type: none"> • Wafer tweezers 6" • Serrated grips • Special Stainless Steel • Non-magnetic • 130mm, 23g | 600ASA | | |
|  | <ul style="list-style-type: none"> • Wafer tweezers 6" • Serrated grips • Special Stainless Steel • Non-magnetic • 130mm, 23g | 608ASA | | |
|  | <ul style="list-style-type: none"> • Wafer tweezers with free-floating Teflon paddle, 4"-6" • Serrated grips • Special Stainless Steel • Non-magnetic • 130mm, 24g | 600JSA | | |
|  | <ul style="list-style-type: none"> • Wafer tweezers with Polyester tips protecting delicate parts, 4"-6" • Serrated grips • Special Stainless Steel • Non-magnetic • 150mm, 30g | 141SAP | | |
| | same as 141SAP but with Halar coating (acid-resistant), plastic tips without pigmentation | 141SAPH | | |

Cutting Tweezers

| | | | | |
|--|---|-------|--|--|
|  | <ul style="list-style-type: none"> • Cutting tweezers • Carbon steel • Blade 5,5mm • 115mm, 21g | 15AGS | | |
|  | <ul style="list-style-type: none"> • Cutting tweezers • Carbon steel • Blade 9,5mm • 115mm, 26g | 15AGW | | |

Stripping Tweezers



| Description | Material No. | Shelf Pack | |
|---|--------------|------------|--|
| <ul style="list-style-type: none"> Stripping tweezers Ø 0,25 mm (AWG 30) Stainless Steel 120mm, 22g | 29Y30 | | |
| <ul style="list-style-type: none"> Stripping tweezers Ø 0,2 mm (AWG 32) Stainless Steel 120mm, 22g | 29Y32 | | |
| <ul style="list-style-type: none"> Stripping tweezers Ø 0,16 mm (AWG 34) Stainless Steel 120mm, 22g | 29Y34 | | |
| <ul style="list-style-type: none"> Stripping tweezers Ø 0,13 mm (AWG 36) Stainless Steel 120mm, 22g | 29Y36 | | |
| <ul style="list-style-type: none"> Stripping tweezers Ø 0,08 mm (AWG 40) Stainless Steel 120mm, 22g | 29Y40 | | |
| <ul style="list-style-type: none"> Stripping tweezers with fibre handles 0,25 mm Reverse action AWG 30 Stainless Steel 120mm, 28g | 29W30 | | |
| Replacement knife for 29W30 | XB29W301 | | |



Extraction Tweezers



| | | | |
|---|------|--|--|
| <ul style="list-style-type: none"> Extraction tweezers Stainless Steel Ø 1,75 mm / inside, Ø 2,15 mm / outside 120mm, 20g | 024C | | |
|---|------|--|--|

Premium Tweezers Tool Set - 3 Piece



| | | | |
|--|---------|---|--|
| <ul style="list-style-type: none"> 3 piece tweezer set in ESD safe plastic case High quality precision tweezers for microelectronics, light engineering, laboratory work, biology and medicine Set with three frequently used tweezers: <ul style="list-style-type: none"> 3SA - Precision Tweezer with pointed, straight tips 2ASA - Precision Tweezer with flat rounded tips, 2mm/.078" width, special stainless steel, non magnetic 7SA - Precision Tweezer, curved, relieved, with pointed tips Special stainless steel, non-magnetic, non-rusting, acid-proof tools | 3300TPS | 1 | |
|--|---------|---|--|

Premium Tweezers Tool Set - 4 Piece



| | | | |
|---|-----------|---|--|
| <ul style="list-style-type: none"> 4 piece tweezers kit in ESD safe plastic case High quality precision tweezers, non magnetic, for SMD work with assorted shapes of chip (Chip, SOT, MELF's, Mini MELF's, Flatpacks) Blunted edges prevent PCB damage Set with four frequently used tweezers: <ul style="list-style-type: none"> 103ASA - SMD Precision Tweezers, tip width 1mm/.039" angled 45° 150SAMF - SMD Precision Tweezers with round tips, Diam 1.2-2.5mm/.047-.098", angled 40°, serrated finger grips for gripping cylindrical components 102ACAX - SMD Precision Tweezers with angled pointed tips for vertical use, reverse clamping action for easy handling 7SA - Precision Tweezers, curved, relieved, with pointed tips Special stainless steel, non-magnetic, non-rusting, acid-proof tools | 3400TSMDU | 1 | |
|---|-----------|---|--|

Premium Tweezers Tool Set - 5 Piece



| | | | |
|---|--------|---|--|
| <ul style="list-style-type: none"> 5 piece tool kit in an ESD safe plastic case High quality precision tweezers for microelectronics, light engineering, laboratory work, biology and medicine Blunted edges prevent PCB damage Set with five frequently used tweezers: <ul style="list-style-type: none"> 3SA - Precision Tweezers with pointed, straight tips 2ASA - Precision Tweezer with flat rounded tips, 2mm/.078" width, special stainless steel, non magnetic 7SA - Precision Tweezers, curved, relieved, with pointed tips 102ACA - SMD Precision Tweezers with tip width of 0.5mm/.019", angled 45° 15AGW - Cutting Tweezers with narrow oblique head, for soft wires and hardened cutting edges for increased service life Special stainless steel, non-magnetic, non-rusting, acid-proof tools | 3500TP | 1 | |
|---|--------|---|--|

Advantages, Specifications and Listings

Technology

Special tool steel

Machined from high grade laminated tool steel for strength and toughness

Invisible Erem Magic Spring licensed

- return Magic Spring internally mounted
- constant opening and closing force
- 1 million operations guaranteed

Selflocking screwing system

- machined surfaces hold together by an interlocking precision screw
- ensures wobble free operation
- eliminates blade overlap

Blade opening limited to 5mm

Reduces operator fatigue by limiting the handle spread

Cut - blade specificity

Blade hardening

By induction heat treatment to 63-65 HRc Rockwell to impart strength and long life



1. Semi Flush

For general cutting applications in which the shape of the cut is not important. Leaves a wedge shape on the material to be cut. For hard and soft wires, robust and long lasting.



For soft steel and copper wires. The cutting effort is reduced and the component is subjected to less shock. A much smaller wedge shape is left on the material to be cut. Used for general purpose cutting, or where greater precision is required.



3. Super Full Flush

This cut provides absolutely flush wire ends. For copper wires. Reducing pressure on sensitive components and shock absorbing.

Service

Resharpener

Free of charge resharpener on almost all cutters that have failed through normal wear (up to 3 times).

Erem guarantees

Perfect functioning of cutters / pliers and the quality of the steel. Each tool being made with care and precision.



Series 2400 MagicSense

Grips

- soft for operator and reduce fatigue
- firm for increased operator control
- non slip for better grip

Ergonomic shape

- automatically positions the operators hand to spread pressure evenly over the tool handles to reduce the incidence of trauma disorders to the fingers, hand, wrist and arm.

Erem Series

Micro

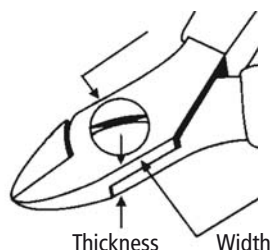


Series 600



Size
Width 9,0 mm
Thickness 6,0 mm

Miniature cutters for extremely fine electronics. Large variety of head forms offering improved access into confined areas.



Medium



Series 2400 MagicSense



Width 11,0 mm
Thickness 6,0 mm

Medium size cutters. Large variety of head forms combining strength, reach and high cutting capacity. The series 2400 MagicSense offers an optimized ergonomic form and an improved degree of hardness.

Series 500



Width 6,5 mm
Thickness 11,0 mm

Maxi



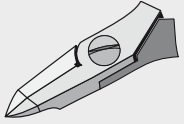
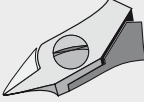
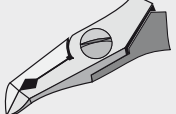
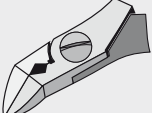
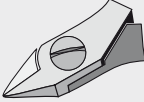
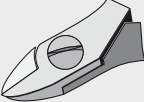
Series 800



Width 13,5 mm
Thickness 7,5 mm

The strongest and toughest series for general electronics. Cuts relatively large wire sizes.

How to choose the right tool?

| Shape | Access, space availability, visibility | Series 600 Micro | Series 2400 MagicSense | Series 500 Medium | Series 800 Maxi |
|--|--|---|------------------------|---|------------------|
| Tip Cutter - straight, tapered and relieved head  | The smallest cutting head. Provides improved access and visibility. | 670E*, 670EP*, 670EPF* * very short head | 2470E | 570E, 573E** ** straight head for vertical use | |
| Tip Cutter - tapered and relieved head  | The smallest cutting head. The underside is cut away, allowing to gain access into difficult areas. | 622NB, 632NCF, 676E, 776E | | 592E, 792E | 884E |
| Tip Cutter - angled, narrow head  | Long and narrow head for better reach between parts and into areas with limited access. | | 2475E, 2482E | 555E, 572E, 575E, 582E, 593AE | |
| Tip Cutter - angled, wide head  | For standard tip cutting applications. Combining strength, reach and high cutting capacity. | | 2403E, 2404E | 503E | |
| Side Cutter - tapered head  | For cutting tasks where easier access is required. Better tip access than the oval head with minimal impact on the cutting capability. | 622NA | 2477E | 577E, 595E | 886E |
| Side Cutter - oval head  | The most common head shape. For standard cutting applications. Combining strength and flexibility. High cutting capacity. | 612N, 622N, 632N | 2412E, 2422E, 2432E | 512E, 512N, 522N, 532N, 599E | 812N, 822N, 896E |





Wire Definitions

- Piano wire, hardened spring steel, material 1.4310, tensile strength of wire 2000-2600 MPa
- Hard wire, material 1.4301, tensile strength of wire 1800 MPa
- Medium hard wire, material 1.4301, tensile strength of wire 800 MPa
- Soft wire, copper, aluminium, tensile strength of wire 250 MPa

Cutters

Series 600 Micro - high grade tool steel, ESD safe, resharpenable

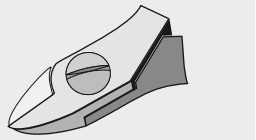



Miniature cutters for extremely fine electronics offering improved access into confined areas.

| | Micro | Medium | Maxi |
|---|---|--|---|
|  |  |  |  |
| | Series 600 | Series 2400 MagicSense | Series 500 |
| Width a | 9,0 mm | 11,0 mm | 13,5 mm |
| Thickness b | 6,0 mm | 6,0 mm | 7,5 mm |

Side Cutters - oval head

The most common cutting head for standard cutting applications. The robust cutting head allows high cutting capability.

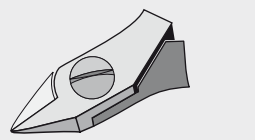



| Description | Material No. | Shelf Pack |
|---|---|------------|
|  | | |
| Side cutter semi flush cut, small head for very good access, medium hard wire 0,8 mm, hard wire 0,5 mm, Cu 1,3 mm, 110mm, 48g | 612N  | |
| Side cutter flush cut, small head for very good access, medium hard wire 0,8 mm, Cu 1,3 mm, 110mm, 48g | 622N  | |
| Side cutter super full flush cut, small head for very good access, medium hard wire 0,7 mm, Cu 1,3 mm, 110mm, 48g | 632N  | |

Side Cutters - tapered head

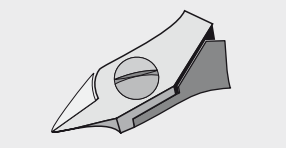







Small tapered head for cutting application in dense working areas.



| | | |
|---|--|--|
|  | | |
| Side cutter flush cut, medium hard wire 0,7 mm, Cu 1,0 mm, 110mm, 48g | 622NA  | |

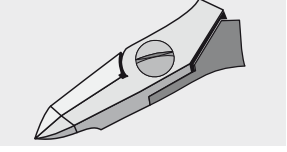






Tip Cutters - tapered and relieved head

Fine cutter head. One side is cut away for access even in confined areas

| Description | Material No. | Shelf Pack |
|--|--|------------|
|  | | |
|  <p>Side cutter flush cut, super fine relieved head, allows very good access, medium hard wire 0,6 mm, Cu 0,8 mm, 110mm, 48g</p> | <p>622NB</p>  | |
|  <p>Side cutter flush cut, same as 622NB, short cutting head and more robust medium hard wire 0,6 mm, Cu 0,8 mm, 110mm, 48g</p> | <p>676E</p>  | |
|  <p>Side cutter super full flush cut, miniature side cutter, super fine relieved head, allows very good access, medium hard wire 0,6 mm, Cu 0,8 mm 110mm, 48g</p> | <p>776E</p>  | |
|  <p>Side cutter super full flush cut, only for soft materials (see page 34, Specials) 110mm, 48g</p> | <p>632NCF</p> | |

Tip Cutters - straight, tapered and relieved head


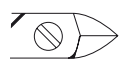


Fine cutter head allows access even in confined areas.

| | | |
|--|---|--|
|  | | |
|  <p>Tip cutter, flush cut, vertical, short head, medium hard wire 0,5 mm, Cu 0,8 mm 110mm, 48g</p> | <p>670E</p>  | |
|  <p>Tip cutter, flush cut, vertical, very precise, short head, for PCBs and micro packages up to 0,25 mm, medium hard wire 0,4 mm, Cu 0,6 mm 110mm, 48g</p> | <p>670EP</p>  | |
|  <p>Same as 670EP but finer version for micro pitches under 0,5 mm, short head, 110mm, 48g</p> | <p>670EPF</p>  | |

Cutters

Series 2400 MagicSense - high grade tool steel, ESD safe, resharpenable

Medium size. Combines robustness, view and accessibility. The series 2400 MagicSense offers optimal ergonomic shape and very high hardness grade.

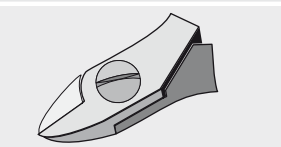
| | Micro | Medium | Maxi | |
|-------------|---|---|--|---|
| |  |  |  |  |
| | Series 600 | Series 2400 MagicSense | Series 500 | Series 800 |
| Width a | 9,0 mm | 11,0 mm | 11,0 mm | 13,5 mm |
| Thickness b | 6,0 mm | 6,0 mm | 6,5 mm | 7,5 mm |

Side Cutters - oval head

The most common cutting head for standard cutting applications. The robust cutting head allows high cutting capability.



Description



Semi flush cut, robust cutting head for general cutting applications, high cutting capability, medium hard wire 1,0 mm, hard wire 0,5 mm, Cu 1,6 mm, 130mm

Material No.

2412E



Shelf Pack



Flush cut, robust head for general cutting applications, high cutting capability, for soft wire, medium hard wire 1,0 mm, Cu 1,6 mm, 130mm

2422E



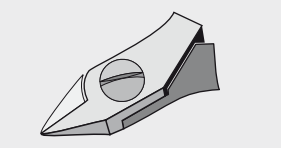
Super full flush cut, razor blades cut medium hard wire 0,8 mm, Cu 1,6 mm, 130mm

2432E



Side Cutters - tapered head

Small tapered head for cutting application in dense working areas.



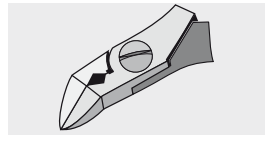
Flush cut, tapered head, for cutting application in dense working areas, medium hard wire, 1,0 mm, Cu 1,3 mm, 127mm

2477E



Tip Cutters - angled, wide head

Angled head for precision, reach and operator visibility.



Flush cut, blunt and robust cutting head, very precise cut, tip cutter for general cutting applications, angled 30° medium hard wire 1,0 mm, Cu 1,6 mm, 130mm

2403E



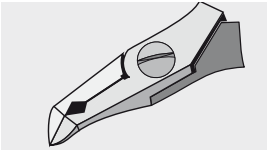


Flush cut, same as 2403E, but with fine and rounded head, angled 30° medium hard wire 0,8 mm, Cu 1,3 mm, 130mm

2404E



Tip Cutters - angled, narrow head

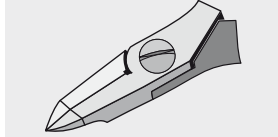

Angled head for precision, reach and operator visibility.

| Description | Material No. | Shelf Pack |
|---|--|------------|
|  | | |
| Flush cut, medium size, especially for cutting on circuit boards and DIL, for 90° and 180° operation cuts, angled 45° medium hard wire 0,6 mm, Cu 1,2 mm, 135mm | 2482E  | |
| Flush cut, for fine work at hybrid or micro component, allows very good access, angled 45° medium hard wire 0,4 mm, Cu 0,6 mm, 135mm | 2475E  | |



Tip Cutters - straight, tapered and relieved head

Long, fine straight tapered head for good access to narrow places.


| | | |
|---|--|--|
|  | | |
| Flush cut, angled head, for horizontal cutting and good access to narrow places, tip cutter for cutting at the extreme tip, medium hard wire 0,4 mm, Cu 0,6 mm, 140mm | 2470E  | |



ESD Tool Set - 3 Piece




NEW

| | | |
|---|--|---|
| <p>ESD Tool Kit - 3 Pce - Contains 2412E, 510AE, 2411P ESD Tools</p> <ul style="list-style-type: none"> • 3 piece tool kit in an ESD-safe plastic case • For use in electronics, PCB assembly, wire, connection handling and stripping of fine wires • MagicSense moulded handle with soft touch for increased comfort and grip • Induction-hardened cutting edges in Rockwell hardness 64-65 HRC • High grade of hardness for exceptionally long life • High grade tool steel, non-reflecting surface, ESD-safe, resharpenable • Internal Erem Magic Spring: constant spring force, guarantees more than 1 million operations • High precision screw joint: smooth jaw action with no play, smooth cutting operation with no jaw overlapping • Maximum opening stop: the limited extent to which the handles can open prevent user hand fatigue • Set with three frequently used tweezers: <ul style="list-style-type: none"> 2412E - Ergo, oval head, semi flush, for hard wire .5mm, medium hardness 1mm, Cu 1.6mm 510AE - High precision stripping pliers (AWG30 - 18), suitable for all types of insulation and optical fibres. Integral side cutting blade 2411P - Ergo, needle nose plier, with very precise, smooth and rounded jaws. | 2450K  | 1 |
|---|--|---|

MagicSense 2400 ESD Tool Set - 3 Piece







NEW

| | | |
|---|--|---|
| <p>MagicSense 2400 ESD Tool Set - 3 Pce - Contains 2412E, 2482E, 2411P ESD Tools</p> <ul style="list-style-type: none"> • 3 piece tool set in an ESD-safe plastic case • For use in electronics, PCB assembly, wire, connection handling • MagicSense moulded handle with soft touch for increased comfort and grip • Induction-hardened cutting edges in Rockwell hardness 64-65 HRC • High grade of hardness for exceptionally long life • High grade tool steel, non-reflecting surface, ESD-safe, resharpenable • Internal Erem Magic Spring: constant spring force, guarantees more than 1 million operations • High precision screw joint: smooth jaw action with no play, smooth cutting operation with no jaw overlapping • Maximum opening stop: the limited extent to which the handles can open prevent user hand fatigue • Set with three frequently used tweezers: <ul style="list-style-type: none"> 2412E - Ergo, oval head, semi flush, for hard wire .5mm, medium hardness 1mm, Cu 1.6mm 2482E - Ergonomic tip cutter, 45° angled narrow head, flush 2411P - Ergo, needle nose plier, with very precise, smooth and rounded jaws | 2400KMS  | 1 |
|---|--|---|

Cutters

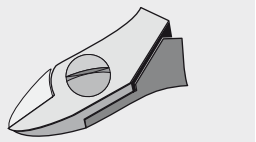










Series 500 Medium - high grade tool steel, ESD safe, resharpenable

Medium size. Combines robustness, view and accessibility. Big variety of cutting heads for precise cutting in dense working areas.

| | Micro | | Medium | Maxi |
|-------------|---|---|---|---|
| |  |  |  |  |
| | Series 600 | New | Series 500 | Series 800 |
| Width a | 9,0 mm | 11,0 mm | 11,0 mm | 13,5 mm |
| Thickness b | 6,0 mm | 6,0 mm | 6,5 mm | 7,5 mm |

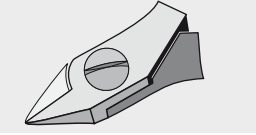




Side Cutters - oval head

The most common cutting head for standard cutting applications. The robust cutting head allows high cutting capability.

| Description | Material No. | Shelf Pack |
|--|---|------------|
|  | | |
|  Side cutter semi flush cut, economical line, robust, for general cutting applications and precise working, high cutting capability, medium hard wire 1,0 mm, hard wire 0,5 mm, Cu 1,6 mm, 115mm, 67g | 512N  | |
|  Side cutter semi flush cut, same as 512N but burnished head, medium hard wire 1,0 mm, hard wire 0,5 mm, Cu 1,6 mm, 115mm, 67g | 512E  | |
|  Side cutter flush cut, economical line, robust, for general cutting applications and precise working, high cutting capability, medium hard wire 1,0 mm, Cu 1,6 mm, 115mm, 67g | 522N  | |
|  Side cutter flush cut, with short and robust head, medium hard wire 1,0 mm, Cu 1,6 mm, 115mm, 67g | 599E  | |
|  Side cutter super full flush cut, for precise cutting, with very sharp cut, medium hard wire 0,8 mm, Cu 1,6 mm, 115mm, 67g | 532N  | |

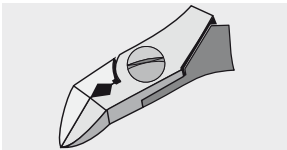


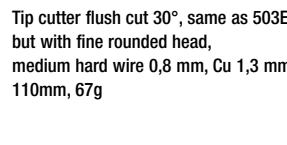


Side Cutters - tapered head

The small tapered cutter allows cutting in dense working areas.

| | | |
|--|---|--|
|  | | |
|  Side cutter flush cut, small tapered head for cutting in dense working areas, medium hard wire 1,0 mm, Cu 1,3 mm, 115mm, 67g | 595E  | |
|  Side cutter flush cut, small short tapered head for cutting in dense working area, medium hard wire 1,0 mm, Cu 1,3 mm, 115mm, 67g | 577E  | |

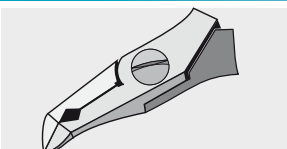






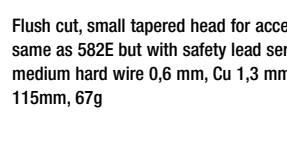





Tip Cutters - angled, wide head

Angled head for precision, reach and operator visibility.

| Description | Material No. | Shelf Pack |
|---|---|------------|
|  <p>Tip cutter flush cut 30°, wide and robust cutting head but precise cut, for general cutting applications, medium hard wire 1,0 mm, Cu 1,6 mm, 110mm, 67g</p> | 503E | |
|  |  ESD SAFE | |
|  <p>Tip cutter flush cut 30°, same as 503E but with fine rounded head, medium hard wire 0,8 mm, Cu 1,3 mm, 110mm, 67g</p> | 504AE | |
|  |  ESD SAFE | |

Tip Cutters - angled, narrow head

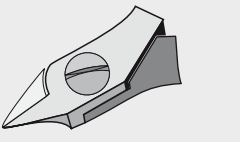

Angled head for precision, reach and operator visibility.

| | | |
|--|---|--|
|  | | |
|  <p>Tip cutter flush cut 35°, small cutting head, strong version, for cutting applications in confined areas where high cutting capacity is required, medium hard wire 0,6 mm, Cu 1,3 mm, 120mm, 68g</p> | 555E | |
| |  ESD SAFE | |
|  <p>Tip cutter flush cut 40°, relieved jaws for easier access, medium hard wire 0,6 mm, Cu 1,3 mm, 115mm, 68g</p> | 572E | |
| |  ESD SAFE | |
|  <p>Tip cutter flush cut 45°, ideal for working on PCBs or cutting component leads, "Anti Overbite System" avoids blades overlapping, medium hard wire 0,6 mm, Cu 1,3 mm, 115mm, 68g</p> | 582E | |
| |  ESD SAFE | |
|  <p>Flush cut, small tapered head for access even in confined areas, same as 582E but with safety lead service, medium hard wire 0,6 mm, Cu 1,3 mm, 115mm, 67g</p> | 582EW | |
| |  ESD SAFE | |
|  <p>Tip cutter flush cut 30°, cut easily DIL leads from the rear, cut pins on dense PCBs, medium hard wire 0,4 mm, Cu 1,0 mm, 115mm, 68g</p> | 593AE | |
| |  ESD SAFE | |
|  <p>Tip cutter flush cut 45°, very small cutting head, for delicate work on hybrid circuits or micro modules, medium hard wire 0,2 mm, Cu 0,6 mm, 110mm, 67g</p> | 575E | |
| |  ESD SAFE | |

Tip Cutters - tapered and relieved head

Fine cutter head. One side is cut away for access even in confined areas.



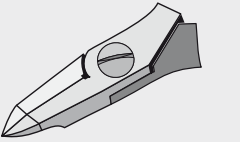
| Description | Material No. | Shelf Pack | |
|--|--------------|------------|--|
|  <p>Side cutter flush cut, medium hard wire 0,4 mm, Cu 0,8 mm, 115mm, 67g</p> | 592E | | |
|  <p>Side cutter super full flush cut, very sharp cut, medium hard wire 0,4 mm, Cu 0,6 mm, 115mm, 67g</p> | 792E | | |



Tip Cutters - straight, tapered and relieved head

Fine and narrow cutter head allows access in confined areas.s.



| | | | |
|---|------|--|--|
|  <p>Tip cutter flush cut, horizontal for cutting at extreme tips, medium hard wire 0,4 mm, Cu 0,6 mm, 120mm, 67g</p> | 570E | | |
|---|------|--|--|



Tip Cutters - oval head for vertical tip cutting



| | | | |
|---|------|--|--|
| <p>Tip cutter flush cut, for soft wire, Cu 0,8 mm, 120mm, 67g</p> | 573E | | |
|---|------|--|--|



Cutters

Series 800 Maxi - high grade tool steel, ESD safe, resharpenable

The strongest and toughest series. Cut relatively large wire sizes.

| | Micro | Medium | Maxi |
|-------------|-------------------|-------------------------------|-------------------|
| | | | |
| | Series 600 | Series 2400 MagicSense | Series 500 |
| Width a | 9,0 mm | 11,0 mm | 11,0 mm |
| Thickness b | 6,0 mm | 6,0 mm | 6,5 mm |

Side Cutters - oval head

The most common cutting head for standard cutting applications. The robust cutting head allows high cutting capability.



Side cutter semi flush cut, robust head, medium hard wire 1,2 mm, hard wire 0,6 mm, Cu 1,8 mm, 120mm, 67g



Side cutter semi flush cut, for hard wire, Kovar wire, connector pins, medium hard wire 1,2 mm, hard wire 0,6 mm, Cu 1,8 mm, 120mm, 67g



Side cutter flush cut, medium hard wire 1,2 mm, Cu 1,8 mm, 120mm, 67g

| Description | Material No. | Shelf Pack |
|-------------|--------------|------------|
| | | |
| | 812N | |
| | | |
| | 896E | |
| | | |
| | 822N | |
| | | |

Side Cutters - tapered head

Small tapered head for cutting application in dense working areas.



Side cutter flush cut, with robust, tapered head, medium hard wire, 1,0 mm, Cu 1,8 mm 120mm, 83g

| | | |
|--|------|--|
| | | |
| | 886E | |
| | | |

Tip Cutters - tapered and relieved head

The smallest head shape. One side is cut away for access even in confined areas.



Side cutter flush cut, with robust, tapered head, medium hard wire 0,8 mm, Cu 1,6 mm, 120mm, 81g

| | | |
|--|------|--|
| | | |
| | 884E | |
| | | |

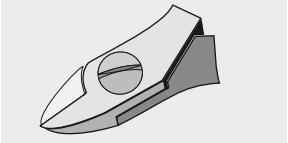









Cutters

Tungsten Hard Metal Cutters - high grade tool steel, ESD safe, resharpenable

High grade tool steel, Tungsten Carbide blades, for constant load. High precision side cutter for stainless and hard wires like Nickel plated wire and cored-wire electrode. Piano until 60 HRC.

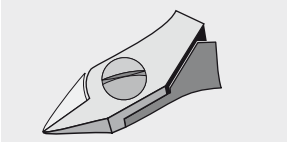












Side Cutters - oval head

The most common cutting head for standard cutting applications. The robust cutting head allows high cutting capability.

| Description | Material No. | Shelf Pack |
|---|---|------------|
|  | | |
|   <p>Flush cut, miniature side cutter, small head, piano wire 0,2 mm, medium hard wire 0,6 mm, hard wire 0,4 mm, Cu 1,2 mm</p> | 622TX  | |
|   <p>Semi flush cut, robust side cutter, Tungsten Carbide blades, for standard cutting applications, high cutting capability, piano wire 0,6 mm, medium hard wire 1,0 mm, hard wire 0,8 mm, Cu 1,5 mm, 115mm, 67g</p> | 599T  | |
|   <p>Flush cut, robust side cutter, Tungsten Carbide blades, for standard cutting applications, high cutting capability, piano wire 0,6 mm, medium hard wire 1,0 mm, hard wire 0,8 mm, Cu 1,5 mm, 115mm, 67g</p> | 599TF  | |

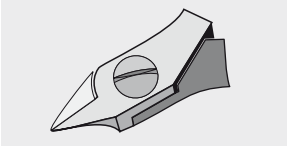


Side Cutters - tapered head

Small tapered head for cutting application in dense working areas.

| | | |
|--|--|--|
|  | | |
|   <p>Side cutter semi flush cut, Tungsten Carbide blades, piano wire 0,4 mm, medium hard wire 0,8 mm, hard wire 0,6 mm, Cu 1,5 mm, 115mm, 67g</p> | 595T  | |
|   <p>Side cutter flush cut, Tungsten Carbide blades, piano wire 0,4 mm, medium hard wire 0,8 mm, hard wire 0,6 mm, Cu 1,5 mm, 115mm, 67g</p> | 595TF  | |
|   <p>Flush cut, small head allows very good access, fine tips, high precision side cutter (MagicSense) for piano wire 0,3 mm, medium hard wire 0,5 mm, hard wire 0,4 mm, Cu 1,0 mm</p> | 2476TX1  | |
|   <p>Flush cut, small head allows very good access, fine tips, high precision side cutter for piano wire 0,3 mm, medium hard wire 0,5 mm, hard wire 0,4 mm, Cu 1,0 mm</p> | 576TX1  | |

Tip Cutters - tapered and relieved head

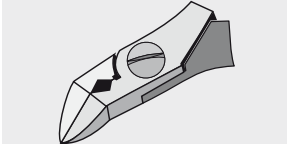


The smallest head shape. One side is cut away for access even in confined areas

| Description | Material No. | Shelf Pack | |
|--|--|------------|--|
|  | | | |
| Flush cut, high precision tip cutter (MagicSense), very fine tips, piano wire 0,1 mm, medium hard wire 0,3 mm, hard wire 0,2 mm, Cu 1,0 mm | 2476TX1  | | |
| Flush cut, high precision tip cutter, Tungsten Carbide blades, very fine tips, piano wire 0,1 mm, medium hard wire 0,3 mm, hard wire 0,2 mm, Cu 1,0 mm, 115mm, 67g | 576TX  | | |



Tip Cutters - angled, wide head











Angled head for precision, reach and operator visibility.

| | | | |
|--|---|--|--|
|  | | | |
| Tip cutter semi flush cut 30°, Tungsten Carbide blades, wide and robust head but fine cut, piano wire 0,4 mm, medium hard wire 0,8 mm, hard wire 0,6 mm, Cu 1,2 mm, 110mm, 67g | 503ET  | | |
| Same as 503ET but flush cut, Tungsten Carbide blades, piano wire 0,4 mm, medium hard wire 0,8 mm, hard wire 0,6 mm, Cu 1,2 mm, 110mm, 67g | 503ETF  | | |





Specials - Pneumatic side & tip cutters

High grade tool steel, ESD safe.

| | | | | |
|---|--|--|--|--|
|  | Side cutter semi flush cut, compound action, Cu 1,8 mm, 120mm, 100g | 147A  | | |
|  | Side cutter flush cut, for PCB separation only, 115mm, 79g | 884EPCM  | | |
|  | Miniature side cutter super full flush cut, ergonomical line, designed for soft materials like small Silicone tubing, miniature rubber gaskets or cutting of molded soft synthetic parts, 110mm, 48g | 632NCF  | | |
|  | Side cutter for Kevlar silks only, 115mm, 67g | 599FO  | | |
|  | Side cutter semi flush cut, high grade tool steel, Tungsten Carbide blades, for cutting fibre optics, Kevlar, vectran braided wires or small stainless wires, 115mm, 67g | 599TFO  | | |

Pneumatic Side + Tip Cutters

| | Description | Material No. | Shelf Pack |
|--|---|--|------------|
|  | Pneumatic cutter housing 130mm, 130g | 1500BSF  | |

Cutting Heads for 1500BSF Side Cutters

Oval Head



Cutting head semi flush cut, high grade tool steel,
max. Cu 1,6 mm

1512N



Cutting head flush cut, high grade tool steel,
max. Cu 1,6 mm

1522N



Tapered Head



Cutting head flush cut, high grade tool steel,
max. Cu 1,4 mm

1522NA



Relieved Head



Cutting head flush cut, high grade tool steel,
max. Cu 1,2 mm

1522NB



Tip Cutters



Cutting head flush cut 30°, high grade tool steel,
max. Cu 1,2 mm

1503E



Distance Cutters

- high grade tool steel, ESD safe
Fixed Cutting Height (= F)



Distance cutter, flush cut,
F = 0,6 mm, max. Cu 1,2 mm,
120mm, 67g

530E06



Distance cutter, flush cut,
F = 0,8 mm, max. Cu 1,2 mm,
120mm, 67g

530E08



Distance cutter, flush cut,
F = 1,0 mm, max. Cu 1,2 mm,
120mm, 67g

530E10



Distance cutter, flush cut,
F = 1,2 mm, max. Cu 1,2 mm,
120mm, 67g

530E12



Distance cutter, flush cut,
F = 1,3 mm, max. Cu 1,2 mm,
120mm, 67g

530E13



Distance cutter, flush cut,
F = 1,5 mm, max. Cu 1,2 mm,
120mm, 67g

530E15



Distance cutter, flush cut,
F = 1,8mm, max. Cu 1,2 mm,
120mm, 67g

530E18



Distance cutter, flush cut,
F = 2,0 mm, max. Cu 1,2 mm,
120mm, 67g

530E20



Distance Cutters

- high grade tool steel, ESD safe
Fixed Cutting Height (= F), angled 45°



Distance cutter, flush cut,
F = 1,5 mm, max. Cu 1,2 mm
120mm, 67g

549E



Distance cutter, flush cut,
F = 1,0 mm, max. Cu 1,2 mm,
120mm, 67g

549E10







Distance cutter, flush cut,
F = 1,2 mm, max. Cu 1,2 mm,
120mm, 67g













549E12



Distance Cutters

| Description | Material No. | Shelf Pack |
|--|---|------------|
| - high grade tool steel, ESD safe Adjustable Cutting Height (= V) | | |
|  <p>Distance cutter, flush cut, V = 1,2 to 6 mm, max. Cu 1,2 mm, 120mm, 70g</p> | 530E15A  | |
|  <p>Distance cutter, plastic anvil, flush cut, V = 0 to 5 mm, max. Cu 0,8 mm, 115mm, 70g</p> | 573EB  | |

Pliers

| Description | Material No. | Shelf Pack |
|---|--|------------|
| - high grade tool steel, anti-glare finish, ESD safe | | |
|  <p>Round nose pliers, with smooth jaws, very precise, 120mm, 67g</p> | 543E  | |
|  <p>Needle nose plier, with smooth rounded jaws, very precise, 120mm, 67g</p> | 547  | |
|  <p>Flat nose plier, with smooth jaws, precise radiused edges, 120mm, 67g</p> | 542E  | |
|  <p>Flat nose plier, Nylon inserts to prevent nicking 125mm, 67g</p> | 531E  | |
|  <p>Chain nose plier, with smooth jaws, 120mm, 67g</p> | 544E  | |
|  <p>Chain nose plier, with smooth jaws, inside serrated, 125mm, 67g</p> | 544D  | |

Pliers Series 2400 MagicSense

- high grade tool steel, anti-glare finish, ESD safe



Needle nose pliers with smooth rounded jaws, very precise, 146mm

2411P



Needle nose pliers, same as 2411P, but inside serrated tips, 146mm

2411PD



Flat nose pliers with smooth jaws, precise radiused edges, 146mm

2442P



Round nose pliers with smooth jaws, very precise, for bending wires, 146mm

2443P



EROP Side Cutters



Side cutter, semi flush cut, burnished, ESD safe, max. Cu 1,0 mm, 110mm, 61g

EROP355



Side cutter, semi flush cut, burnished, ESD safe, max. Cu 1,0 mm, 110mm, 72g

EROP155



Side cutter, semi flush cut, burnished, ESD safe, max. Cu 2,0 mm, 130mm, 110g

EROP419



Side cutter, semi flush cut, burnished, ESD safe, max. Cu 0,6 mm, 110mm, 61g

EROP357



Tip Cutters



Tip cutter, flush cut, burnished, ESD safe, max. Cu 1,5 mm, 120mm, 81g

EROP331















Tip cutter, flush cut, burnished, ESD safe, max. Cu 1,0 mm, 130mm, 84g

EROP330



EROP Pliers

| | Description | Material No. | Shelf Pack |
|--|---|--|------------|
|  | Round nose plier, burnished, ESD safe, 125mm, 63g | EROP172  | |
|  | Needle nose plier, burnished, ESD safe, 120mm, 66g | EROP174  | |
|  | Needle nose plier, burnished, ESD safe, 140mm, 90g | EROP277  | |
|  | Needle nose plier, burnished, ESD safe, 170mm, 113g | EROP280  | |
|  | Flat nose plier, burnished, ESD safe, 120mm, 63g | EROP170  | |
|  | Flat nose plier, burnished, ESD safe, 120mm, 67g | EROP171  | |

Stripping Tools

Front Stripping - high grade tool steel, ESD safe



Front stripping tool, adjustable AWG 30-18 (0,25-1,02 mm), 120mm, 75g

510AE



Front stripping tool, high precision, adjustable AWG 42-24 (0,06-0,60 mm), 120mm, 80g

552E



Side Stripping - high grade tool steel, ESD safe




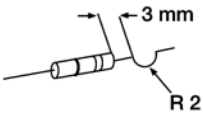

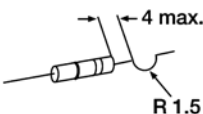

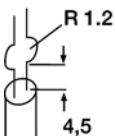

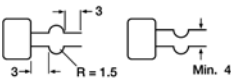


Side stripping tool, high precision, adjustable AWG 42-24 (0,06-0,60 mm), 120mm, 80g

552S


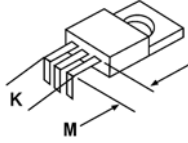

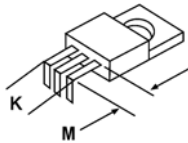

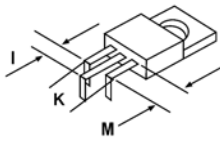


Pre-Forming Tools


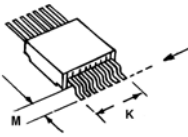
For Passive Components - high grade tool steel, anti-glare finish, ESD safe

| | Description | | Material No. | Shelf Pack | |
|---|--|--|--------------|------------|--|
|  | Pre-forming tool, u-shape max. 65 mm, capacitors 0,7 mm, resistors 1/2 W, 120mm, 70g |  | 554E | | |
|  | Pre-forming tool, u-shape transverse, max. 65 mm, head width 4 mm, 120mm, 70g |  | 554A | | |
|  | Pre-forming tool, double u-shape simultaneously, max. 65 mm, head width 2,5 mm, 120mm, 70g |  | 554TX | | |
|  | Pre-forming tool, cut and bent max. 65 mm, 120mm, 70g |  | 50788 | | |
|  | Pre-forming tool, cut and bent max. 65mm, 120mm, 70g |  | 50789Z | | |


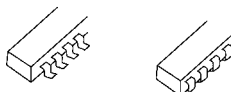
For Active Components - high grade tool steel, anti-glare finish, ESD safe

| | | | | | |
|---|--|--|---------|--|--|
|  | Pre-forming tool, bend 3-12 mm, 120mm, 85g |  | 500103A | | |
|  | Pre-forming tool, cut and bent 3,8-15 mm, 120mm, 85g |  | 500210E | | |
|  | Pre-forming tool for 3 leads, 3,5-15 mm, 120mm, 85g |  | 500104A | | |









For Flat Packs, Quads - high grade tool steel, ESD safe

| | | | | | |
|---|---|--|--------|--|--|
|  | Pre-forming tool, cut and bent, mex. 13 mm, 120mm, 100g |  | 80013C | | |
|---|---|--|--------|--|--|






For DIL / IC - high grade tool steel, ESD safe

| | | | | | |
|---|---|--|-------|--|--|
|  | Pre-forming tool, cut and bent, up to 20 pins, 120mm, 98g |  | 8091C | | |
|---|---|--|-------|--|--|

IC + SMD Tools

| Description | Material No. | Shelf Pack |
|--|--|------------|
| Inserting and Extracting - high grade tool steel, ESD safe | | |
|  <p>Inserting and extracting pliers, 14-16 pins, 20 mm, adjustable, 120mm, width .300</p> | 505C  | |
| <p>Inserting and extracting pliers, 28 pins, 36 mm, adjustable, 120mm, width .300</p> | 505BGC  | |
| <p>Inserting and extracting pliers, 28 pins, 36 mm, adjustable, 120mm, width .600</p> | 505BG  | |
| Cutting - high grade tool steel, anti-glare finish, ESD safe | | |
|  <p>High precision tip cutter for cutting leads up to 0,25 mm, 110mm, 48g</p> | 670EP  | |
|  <p>High precision tip cutter bent, cuts leads from the rear, medium hard wire 0,4 mm, Cu 1,0 mm, 115mm, 67g</p> | 593AE  | |

Fibre Optic Tools/Kits

| | | |
|---|---|--|
| Side Stripping - high grade tool steel, anti-glare finish, ESD safe | | |
|  <p>Side stripping tool, high precision, adjustable AWG 42-30 120mm, 80g</p> | 552S  | |
| Cutting - high grade tool steel, ESD safe | | |
|  <p>Side cutter for Kevlar silks only. 115mm, 67g</p> | 599FO | |
|  <p>Side cutter semi flush cut, Tungsten Carbide blades, for cutting fibre optics, Kevlar and small stainless wires, 115mm, 67g</p> | 599TFO | |
| Holding / Gripping | | |
|  <p>Precision tweezers with PPS tips, special stainless steel, non magnetic, 120mm, 20g</p> | 249SA | |

Kit for SMD handling



| Description | Material No. | Shelf Pack |
|--|--------------|------------|
| Kit for SMD handling consists of: 51SA precision tweezers 102ACA SMD tweezers 103ACA SMD tweezers 150SAMB SMD tweezers 150SAMF SMD tweezers 670EP tip cutter | 3900KC | |

Premium Universal Tool Set - 11 Piece



| | | |
|---|--------|---|
| Premium Universal Tool Set - 11 Pce - Contains XP600 (6pce set), 2412E, 2442P, 622NB, AASA, 2ASASL • 11 piece tool kit in an ESD-safe plastic case, 2 cutters, 1 plier, 2 tweezers, 6 screwdrivers • High quality precision tweezers, cutters and screwdrivers, non reflecting surface, resharpenable • Internal Erem Magic Spring provides constant spring force, guarantees more than 1 million operations • High precision screw joint with smooth jaw action with no play, smooth cutting operation with no jaw overlapping • Maximum opening stop allows the limited extent to which the handles can open prevent user hand fatigue • For use in electronics assembly, the watch making industry, medicine • Precision screwdriver with hardened, durable Tips, for precision working in confined areas • Set contains the following: XP600 - Precision screwdriver set for electronics - 4 Regular and 2 Philips 2412E - Ergo, oval head, semi flush cutters 2442P - Ergo flat nose plier w/- precision-machined smooth jaws 622NB - Miniature tip cutter, flush, relieved, long fine head, for medium hardness 0.6mm Cu. 0.8mm AASA - Precision tweezers, pointed tips, straight, special stainless steel, non magnetic 2ASASL - Precision tweezers w/- flat rounded tips, tip widths 2mm/.078", special stainless steel, non magnetic | 3600KU | 1 |
|---|--------|---|

Vacuum Manipulator

Housing



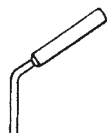
Inserts for Housing 3000ESD



Adapter 360° rotating, straight nozzle



Adapter fix for use with suction tips series 3300



Adapter fix for use with suction cup 2052E

| Description | Material No. | Shelf Pack | |
|---|--------------|------------|--|
| Housing | 3000ESD | | |
| Adapter 360° rotating, straight nozzle | 3200 | | |
| Adapter fix for use with suction tips series 3300 | 3231 | | |
| Adapter fix for use with suction cup 2052E | 3232 | | |

Vacuum Kit



Vacuum Kit consists of:
 3000ESD Housing
 3200 Adapter rotating
 3231 Adapter fix
 3305Z, 3310Z, 3315 Suction needles bent
 2052E Suction cup 4,5 mm
 KDS 260L Suction cup 9,5 mm
 3740 Table holder
 3714Z Membrane pump 230 V
 3008ESD tubing system
 3717 Filter
 102ACA SMD tweezers

| | | |
|-----------|--|--|
| 3000KCESD | | |
| | | |
| 2044Z | | |
| 2041Z | | |

Suction Tips Straight

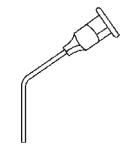


Suction tip 0,90 mm straight, Teflon tip for use with rotating adapter 3200 or fix adapter 3232



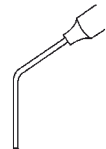
Suction tip 1,4 mm straight, Teflon tip for use with rotating adapter 3200 or fix adapter 3232

Suction Needles



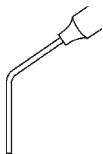
Suction needle bent 45°, 0,16 mm, stainless steel, for use with fix adapter 3231

3303



Suction needle bent 45°, 0,25 mm, stainless steel, for use with fix adapter 3231

3305Z



Suction needle bent 45°, 0,65 mm, stainless steel, for use with fix adapter 3231

3310Z

Vacuum Manipulator Suction Cups



Suction cup Ø 4,5 mm, Silicone rubber, for use with rotating adapter 3200 or fix adapter 3232

2052E

Accessories

Membrane pumb 230 V, 5l/min, max. vacuum -250 mbar (NOT FOR USE WITH 3000WESD)

3714Z

Tubing system flexible, 1,8 m, ESD safe

3008ESD



Table holder for 3000ESD or 3000WESD w/o accessory

3740

Exploded Drawing 1500 BSF

