



Electronics Product List

effective as from October 1st, 2010

Weller[®]



Need more information? Contact us:

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**This product list may be subject to technical change without notice.
This product list supersedes all previous lists.
Errors & Omissions excluded.**

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Erem[®]

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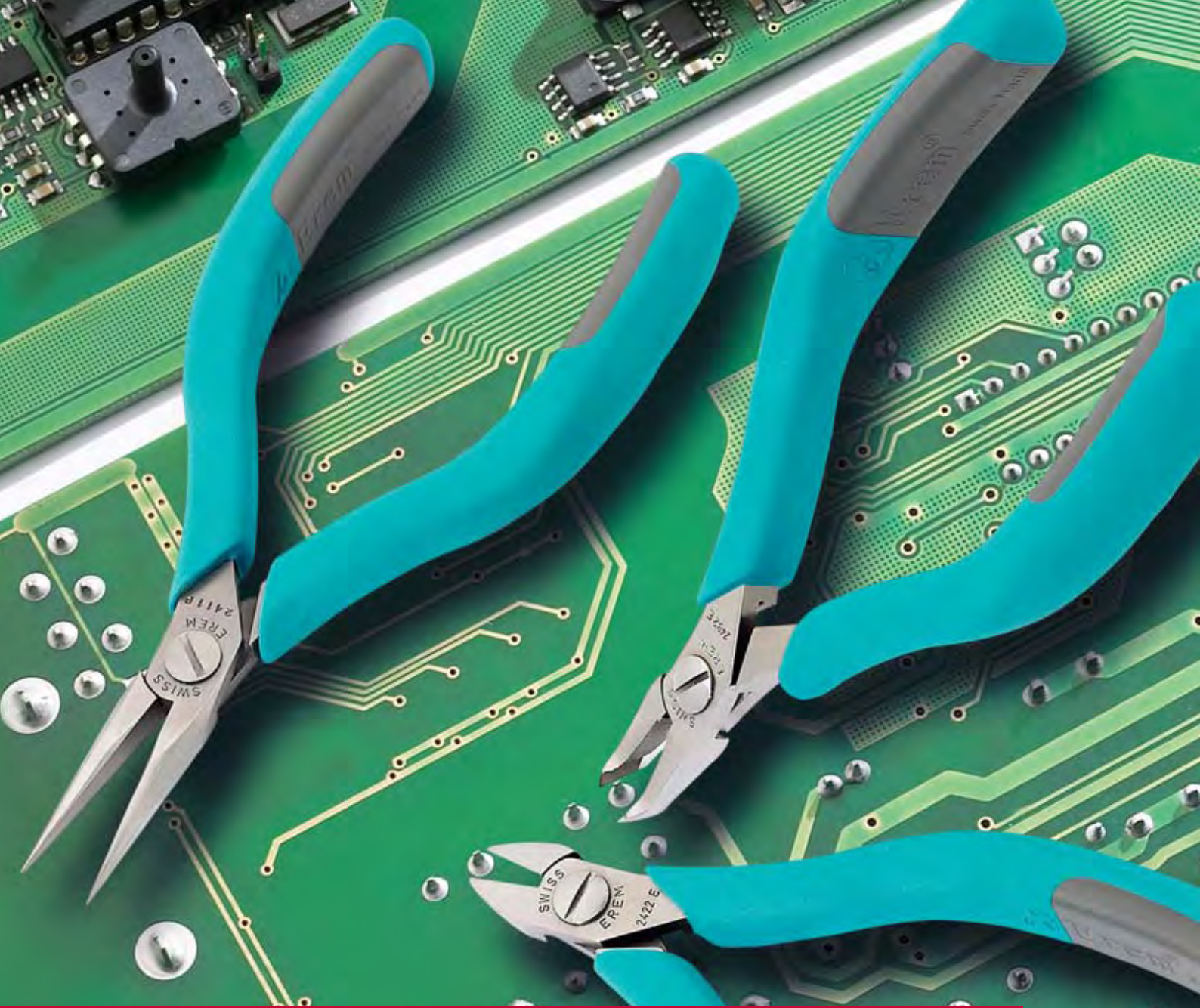
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Tweezers, Cutters, Pliers

Erem[®]

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Tweezers



Tweezers for high precision

Tweezers for use in areas like electronics, medical laboratories and other applications where high precision is required

- Pointed tips
- Flat round tips
- SMD tweezers
- Wafer tweezers
- Cutting tweezers
- Stripping tweezers
- Precision tweezers with ergonomic handle



Tweezers

Pointed Tips Straight

Pointed Tips Straight

Model/Order No.	Description
M5S	Precision micro tweezers, stainless steel, very small and fine tips, 80 mm, 6 g
ACSA	Precision tweezers, special stainless steel, unmagnetic, with serrated grips, 108 mm, 16 g
20AS	Precision micro tweezers, stainless steel, with serrated grips and inside serrated tips, guide pin to avoid tip overlapping, 108 mm, 12 g
3CS	Precision tweezers, stainless steel, with long tips, 110 mm, 11 g
3CSA	Precision tweezers, special stainless steel, unmagnetic, with shorter tips than 3CS, 110 mm, 11 g
3CSASL	same as 3CSA, but economy model
3CTA	Precision tweezers, Titanium, unmagnetic, same as 3CSA but Titanium for heat resistance and light weight, 110 mm, 8 g
53CSA	Precision tweezers for handling of delicate flexible parts, special stainless steel, unmagnetic, 110 mm, 11 g
3SA	Precision tweezers, special stainless steel, unmagnetic, fine tips, 120 mm, 14 g
3SASL	same as 3SA, but economy model
1SA	Precision tweezers, special stainless steel, unmagnetic, thicker tips than 3SA, 120 mm, 14 g
1SASL	same as 1SA, but economy model

Option: +PYR = Pyroplast coating on request (Euro 9,95), ex.: 2ASAPYR

Note: the Pyroplast coating is not available for all Erem tweezers.

It is made to order and needs a minimum order quantity. Please ask for further information.

„S“ in the order-no signifies: Stainless steel, strong tips, rust resistant

„SA“ in the order-no signifies: Non magnetique, rust resistant, anti acid alloy, temp. resistant up to 300°C

Tweezers

Pointed Tips Straight

Pointed Tips Straight (continued)

Model/Order No.	Description
 OOSA	Precision tweezers, special stainless steel, unmagnetic, flat inside tips, very resistant, 120 mm, 14 g
OOSASL	same as OOSA, but economy model
 OOCSA	Precision tweezers, special stainless steel, unmagnetic, same as OOSA but shorter, 120 mm, 18 g
 OOBSA	Precision tweezers with serrated grips, special stainless steel, unmagnetic, with serrated tips, 120 mm, 20 g
 OODSA	Precision tweezers with serrated grips and inside serrated tips, special stainless steel, unmagnetic, 120 mm, 20 g
 64SA	Precision tweezers with serrated grips, special stainless steel, unmagnetic, 120 mm, 17 g
 11N	Precision tweezers, Nickel-Silver alloy, unmagnetic, 120 mm, 17 g
 AAZ	Precision tweezers, Nickel plated, 120 mm, 16 g
 AAS	Precision tweezers, stainless steel, with short but fine tips, 125 mm, 16 g
 AASA	Precision tweezers, special stainless steel, unmagnetic, 125 mm, 16 g
AASASL	same as AASA, but economy version

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Tweezers

Pointed Tips Straight / Straight Relieved

Pointed Tips Straight (continued)



Model/Order No.	Description
AM	Precision tweezers Brass, soft metal protects sensitive parts against damage, no sparks, 125 mm, 17 g
249SA	Precision tweezers with synthetic (PPS) tips, special stainless steel, unmagnetic, heat resistant up to 250°C, serrated grips, 130 mm, 20 g
249CER	Precision tweezers with Ceramic tips, special stainless steel, unmagnetic, heat resistant up to 900°C, 130 mm, 24 g
RRS	Precision tweezers, stainless steel, large, very strong, long version, 140 mm, 30 g
SSSA	Precision tweezers, special stainless steel, unmagnetic, very narrow and long handles, low tension, 140 mm, 11 g
29SA	Precision flat round tweezers reverse action, with fibre-grip handles, special stainless steel, non-magnetic, 150 mm, 26 g
21SA	Precision tweezers, with serrated grips and inside serrated tips, long version, strong, special stainless steel, unmagnetic, 160 mm, 23 g

Pointed Tips Straight Relieved



Model/Order No.	Description
M4AS	Micro precision tweezers, stainless steel, very small, very fine tips, 90 mm, 9 g
4SA	Precision tweezers, with very fine tips, special stainless steel, unmagnetic, 110 mm, 13 g
4SASL	same as 4SA, but economy model

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Tweezers

Pointed Tips Straight Relieved / Pointed Tips Bent

Pointed Tips Straight Relieved (continued)

Model/Order No.	Description
5MBS	Micro precision tweezers, with extremely fine tips (~ 0,03 x 0,07 mm) stainless steel, 115 mm, 12 g
5FSA	Micro precision tweezers, with extremely fine tips (~ 0,05 x 0,1 mm) special stainless steel, unmagnetic, 115 mm, 12 g
5SA	Precision tweezers, with very fine tips, special stainless steel, unmagnetic, 115 mm, 12 g
5SASL	same as 5SA, but economy model
2SA	Precision tweezers, with medium size tips, special stainless steel, unmagnetic, 115 mm, 16 g
2SASL	same as 2SA, but economy model
258SA	Precision tweezers with synthetic (PPS) tips, special stainless steel, unmagnetic, ESD safe, heat resistant up to 250°C, 120 mm, 15 g

Pointed Tips Bent

Model/Order No.	Description
3CBS	Precision tweezers with fine tips, curved 40°, stainless steel, 110 mm, 15 g
5CSA	Precision tweezers with fine tips, curved 30°, special stainless steel, unmagnetic, relieved, 115 mm, 12 g
5BSA	Precision tweezers with very fine tips, curved 30°, special stainless steel, unmagnetic, relieved, 115 mm, 12 g
51SA	Precision tweezers with finer tips than 5CSA, curved 30°, special stainless steel, unmagnetic, relieved, 115 mm, 12 g






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Tweezers

Pointed Tips Bent / Flat Round Tips Straight

Pointed Tips Bent (continued)

Model/Order No.	Description
51SASL	same as 51SA, but economy model
 5ASA	Precision tweezers with fine tips, oblique 15°, special stainless steel, unmagnetic, 115 mm, 12 g
5ASASL	same as 5ASA, but economy model
 7SA	Precision tweezers with fine tips, curved, special stainless steel, unmagnetic, relieved, 120 mm, 15 g
7SASL	same as 7SA, but economy model
 65ASA	Precision tweezers bent 50°, fine tips, long version, special stainless steel, unmagnetic, 140 mm, 11 g
 24SA	Precision tweezers bent 40°, alignment pin, serrated grips and inside serrated tips, special stainless steel, unmagnetic, 150 mm, 22 g
 30SA	Precision tweezers bent 50°, with fibre-grip handles, reverse action, special stainless steel, unmagnetic, 150 mm, 26 g

Flat Round Tips Straight

Model/Order No.	Description
 2ASA	Precision tweezers, special stainless steel, unmagnetic, with medium round tips for gripping, tip side 2 mm, 120 mm, 15 g
2ASASL	same as 2ASA, but economy model
 2ASASLT	same as 2ASA but Teflon coated tips for handling delicate parts

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Tweezers

Flat Round Tips Straight / Precision Tweezers with Ergonomic Handles

Flat Round Tips Straight (continued)



Model/Order No.	Description
2ASARU	Precision tweezers with anti-adhesive coated tips for handling adhesive parts, special stainless steel, unmagnetic, 120 mm, 16 g
25SA	Precision tweezers, flat round tips, as model 2ASARU serrated grips, special stainless steel, unmagnetic, 120 mm, 15 g
52ASA	Precision tweezers, crush-proof design, for handling delicate flexible parts, special stainless steel, unmagnetic, 120 mm, 15 g

Precision Tweezers with Ergonomic Handles



Model/Order No.	Description
E5SA	Precision tweezers with very fine tips, special stainless steel, unmagnetic, ESD safe, 120 mm, 25 g
E3CSA	Precision tweezers with long fine tips, special stainless steel, unmagnetic, ESD safe, 120 mm, 25 g
E0OSA	Precision tweezers with straight and sturdy tips, special stainless steel, unmagnetic, ESD safe, 120 mm, 30 g
E0ODSA	Same as E0OSA, but serrated tips
E7SA	Precision tweezers curved, special stainless steel, unmagnetic, ESD safe, 120 mm, 28 g
E2ASA	Precision tweezers flat round tips, special stainless steel, unmagnetic, ESD safe, 120 mm, 28 g
E15AGW	Cutting tweezers, carbon steel tips, ESD safe, 120 mm, 30 g


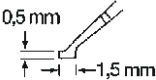


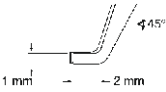




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„SA“ in the order-no signifies: Unmagnetic, rust resistant, anti acid alloy, temp. resistant up to 300°C

Tweezers

SMD Tweezers

SMD Tweezers

Model/Order No.	Description
  102ACA	SMD tweezers, angled head 45°, special stainless steel, unmagnetic, 115 mm, 15 g
 102ACAX	SMD tweezers, angled head 45°, reverse action, special stainless steel, unmagnetic, 115 mm, 14 g
  103ACA	SMD tweezers, angled head 45°, special stainless steel, unmagnetic, 115 mm, 15 g
 39SA	SMD tweezers curved head Ø 0,3 mm, serrated grips, special stainless steel, unmagnetic, 110 mm, 15 g
 40SA	SMD tweezers curved head Ø 0,4 mm, serrated grips, special stainless steel, unmagnetic, 110 mm, 15 g
 150SAMF	SMD tweezers curved head Ø 1,2–2,5 mm, serrated grips, special stainless steel, unmagnetic, 120 mm, 13 g
 150SAD	SMD tweezers curved head Ø 1,5–3 mm, serrated grips, special stainless steel, unmagnetic, 120 mm, 13 g

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Tweezers

SMD Tweezers

SMD Tweezers



Model/Order No.	Description
150SA	SMD tweezers curved head Ø 1,5–3 mm, serrated grips, special stainless steel, unmagnetic, 120 mm, 13 g
151SA	SMD tweezers curved head Ø 3–6 mm, serrated grips, special stainless steel, unmagnetic, 120 mm, 13 g
32BSA	SMD tweezers bent 45°, curved head Ø 5 mm, special stainless steel, unmagnetic, 115 mm, 17 g
32BSA20	SMD tweezers bent 45°, curved head Ø 2 mm, special stainless steel, unmagnetic, 115 mm, 17 g
32BSA25	SMD tweezers bent 45°, curved head Ø 2,5 mm, special stainless steel, unmagnetic, 115 mm, 17 g,
150SAMB	SMD tweezers bent 40°, curved head Ø 1,2–2,5 mm, serrated grips, special stainless steel, unmagnetic, 115 mm, 13 g


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Tweezers


Special Gripping Tweezers / Wafer Tweezers

Special Gripping Tweezers



Model/Order No.	Description
940AS	Gripping tweezers with locking clip, stainless steel, 120 mm, 17 g

Wafer Tweezers



Model/Order No.	Description
91SA	Wafer tweezers 3"-4", serrated grips, special stainless steel, unmagnetic, 125 mm, 15 g
600ASA	Wafer tweezers 6", serrated grips, special stainless steel, unmagnetic, 130 mm, 23 g
608ASA	Wafer tweezers 6", serrated grips, special stainless steel, unmagnetic, 130 mm, 23 g
600JSA	Wafer tweezers with free-floating Teflon paddle, 4"-6", serrated grips, special stainless steel, unmagnetic, 130 mm, 24 g
141SAP	Wafer tweezers with Polyester tips protecting delicate parts, 4"-6", serrated grips, special stainless steel, unmagnetic, 150 mm, 30 g
141SAPH	same as 141SAP, but with Halar coating (acid-resistant) on handle, plastic tips without pigmentation

Tweezers

Cutting Tweezers / Stripping Tweezers / Extraction Tweezers

Cutting Tweezers



Model/Order No.	Description
15AGS	Cutting tweezers, carbon steel, blade 5,5 mm 115 mm, 21 g
15AGW	Cutting tweezers, carbon steel, blade 9,5 mm 115 mm, 26 g

Stripping Tweezers



Model/Order No.	Description
29Y30	Stripping tweezers Ø 0,25 mm (AWG 30), stainless steel, 120 mm, 22 g
29Y32	Stripping tweezers Ø 0,2 mm (AWG 32), stainless steel, 120 mm, 22 g
29Y34	Stripping tweezers Ø 0,16 mm (AWG 34), stainless steel, 120 mm, 22 g
29Y36	Stripping tweezers Ø 0,13 mm (AWG 36), stainless steel, 120 mm, 22 g
29Y40	Stripping tweezers Ø 0,08 mm (AWG 40), stainless steel, 120 mm, 22 g

Please provide wire sample when ordering



29W30	Stripping tweezers with fibre handles 0,25 mm, reverse action AWG 30, stainless steel, 120 mm, 28 g
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XB29W301	Replacement knife for 29W30
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Extraction Tweezers



Model/Order No.	Description
024C	Extraction tweezers, stainless steel, Ø 1,75 mm / inside, Ø 2,15 mm / outside, 120 mm, 20 g

Cutters



Erem will impress you



Induction hardened blades in Rockwell hardness 63 – 65 HRC

- for exceptionally long life

Internal patented Erem Magic Spring

- constant spring force
- more than 1 million cutting cycles guaranteed

High Precision screw joint

- smooth cutting action
- wobble free operation with no blade overlap

Erem Cut

- special cutting blade for achieving the desired cutting shape

MagicSense shaped handle with Softtouch feature

- for high comfort, better grip and added safety

EMOS maximum opening stop

- limits blade opening to 5 mm maximum
- reduces operator fatigue by preventing excessive hand spread

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 5 mm

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.



2. Flush

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.



ESD safe

Series 2400 MagicSense

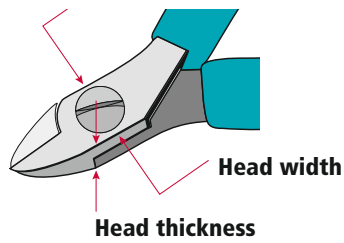
Grips

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

Ergonomic shape

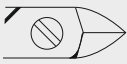






- automatically positions the operators hand to spread pressure evenly over the tool handles to reduce the incidence of trauma disorders to the fingers, hand, wrist and arm

Erem Series



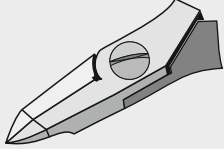
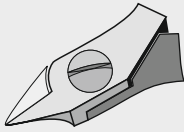
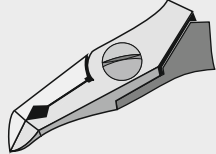
Erem offers the right head size to suit every application. There are three main sizes: Micro, Medium and Maxi.

Each head size is available in different head shapes.

Micro	Medium		Maxi
			
Serie 600	Serie 2400 MagicSense	Serie 500	Serie 800
			
Size			
Head width 9,0 mm	Head width 11,0 mm	Head width 11,0 mm	Head width 13,5 mm
Head thickness 6,0 mm	Head thickness 6,0 mm	Head thickness 6,5 mm	Head thickness 7,5 mm
Miniature cutter for applications in microelectronics and for fine wires. Offers a large variety of head shapes for very good access even to hard-to-reach areas.	Medium-size cutter. Combines robustness, visibility and accessibility. Large variety of head shapes for precision working in hard-to-reach areas. The Serie 2400 MagicSense offers an optimised ergonomic shape and an improved grade of hardness.		The strongest and most robust head size for general cutting applications in electronics, cuts large wire diameters.

How to choose the right tool?

Erem offers the right head shape to suit your application. The head shapes differ in terms of shape and design. There are six basic shapes:

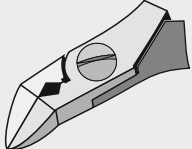
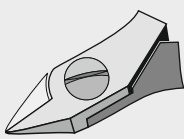
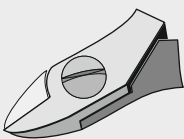
Shape	Tip Cutter Straight relieved head	Tip Cutter Pointed relieved head	Tip Cutter Angled, narrow head
Visibility and accessibility Cutting at the outermost tip of the cutter	 <p>This head is suitable for horizontal and vertical cuts. The long tips facilitate cutting in hard-to-reach areas.</p>	 <p>This is the narrowest head shape. The underside is relieved and facilitates optimum access even to extremely hard-to-reach areas.</p>	 <p>The angled head provides for precise cuts at different working angles.</p>
Series 600 Micro	670E*, 670EP*, 670EPF* (p. 25)	622NB, 632NCF, 676E, 776E (p. 25)	
Series 2400 MagicSense	2470E (p. 27)		2475E, 2482E (p. 27)
Series 500 Medium	570E, 573E** (p. 31)	592E, 792E (p. 31)	555E, 572E, 575E, 582E, 593AE (p. 30)
Series 800 Maxi		884E (p. 33)	

* very short head

** straight head for vertical working

Wire definition

- Piano wire, stainless spring steel wire, material 1.4310, tensile strength 2000–2400 MPa
- Hard wire, stainless steel wire, material 1.4301, tensile strength 1800 MPa
- Medium-hard wire, stainless steel wire, material 1.4301, tensile strength 800 MPa
- Soft wire, copper, aluminium, tensile strength 250 MPa

Tip Cutter Angled wide head	Side Cutter Tapered head	Side Cutter Oval head
		
<p>The angled head provides for precise cuts at different working angles.</p>	<p>One side of the cutter is tapered, enabling the user to work even in hard-to-reach areas without reducing the cutting capacity.</p>	<p>This is the standard head shape. It is used for all cutting jobs in easy-to-reach areas. The solid head provides for a high cutting capacity and is characterised by its robustness.</p>
	622NA (p. 24)	612N, 622N, 632N (p. 24)
2403E, 2404E (p. 27)	2477E (p. 26)	2412E, 2422E, 2432E (p. 26)
503E, 504AE (p. 29)	577E, 595E (p. 29)	512E, 512N, 522N, 532N, 599E (p. 28)
	886E (p. 33)	812N, 822N, 896E (p. 32)

High cutting capacity

Cutting over the full length of the cutter


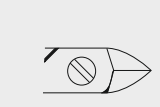
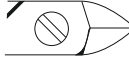

Erem offers carbide cutters for (see P. 34/35) for cutting high-hardness wire (piano wire).

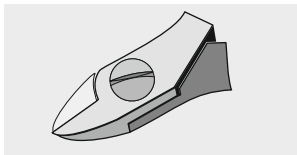
Cutters

Side- and Tip 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	New 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.



Model/Order No.

Description

612N

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, 110 mm, 48 g



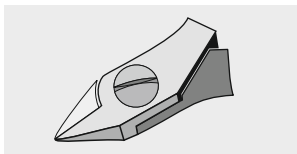
622N

Side cutter flush cut, small head for very good access, medium hard wire 0,8 mm, Cu 1,3 mm, 110 mm, 48 g



632N

Side cutter super full flush cut, small head for very good access, medium hard wire 0,7 mm, Cu 1,3 mm, 110 mm, 48 g



Side Cutters – tapered head

Small tapered head for cutting application in dense working areas.



Model/Order No.

Description

622NA

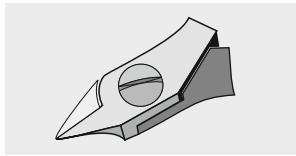
Side cutter flush cut, medium hard wire 0,7 mm, Cu 1,0 mm, 110 mm, 48 g

Optional: Safety lead device + 12,60 Euro holds wire scraps after cutting.

Note: For all side cutters series 500, 600 and 2400. Add "W" when ordering, e. g. 595EW
Wire definitions see p. 22

Cutters

Side- and Tip Cutters



Tip Cutters – tapered and relieved head

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



Model/Order No.

Description

622NB

Side cutter flush cut, super fine relieved head, allows very good access, medium hard wire 0,6 mm, Cu 0,8 mm, 110 mm, 48 g



676E

Side cutter flush cut, same as 622NB, short cutting head and more robust medium hard wire 0,6 mm, Cu 0,8 mm, 110 mm, 48 g



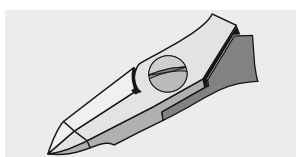
776E

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, 110 mm, 48 g



632NCF

Side cutter super full flush cut, only for soft materials 110 mm, 48 g



Tip Cutters – straight tapered and relieved head

Fine cutter head allows access even in confined areas.



Model/Order No.

Description

670E

Tip cutter, flush cut, vertical, short head, medium hard wire 0,5 mm, Cu 0,8 mm, 110 mm, 48 g



670EP

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, 110 mm, 48 g



670EPF

Same as 670EP, but finer version for micro pitches under 0,5 mm, short head, 110 mm, 48 g


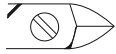

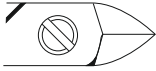
Cutters

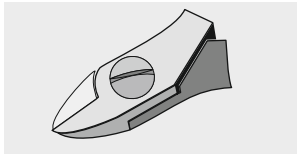
Side- and Tip Cutters

NEW

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 New	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.



Model/Order No.

Description

2412E

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, 130 mm



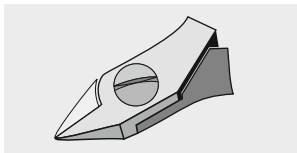
2422E

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



2432E

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



Side Cutters – tapered head

Small tapered head for cutting application in dense working areas.



Model/Order No.

Description

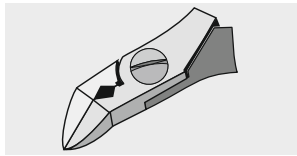
2477E

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

Wire definitions see p. 22

Cutters

Side- and Tip Cutters



Tip Cutters – angled, wide head

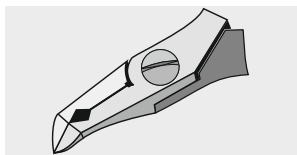
Angled head for precision, reach and operator visibility.

Model/Order No.	Description
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2403E	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, 130 mm
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2404E	Flush cut, same as 2403E, but with fine and rounded head, angled 30° medium hard wire 0,8 mm, Cu 1,3 mm, 130 mm
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Tip Cutters – angled, narrow head

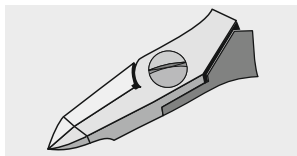
Angled head for precision, reach and operator visibility.

Model/Order No.	Description
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2482E	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, 135 mm
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2475E	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, 135 mm
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Tip Cutters – straight, tapered and relieved head

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

Model/Order No.	Description
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2470E	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, 140 mm
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Optional: Safety lead device + 12,60 Euro holds wire scraps after cutting.
Note: For all side cutters series 500, 600 and 2400. Add "W" when ordering, e. g. 595EW
Info: Pliers of series 2400 MagicSense see chapter pliers.
Wire definitions see p. 22

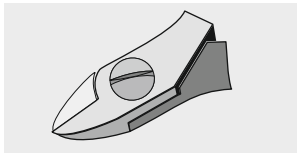
Cutters

Side- and Tip 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 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.



Model/Order No.

512N

Description

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, 115 mm, 67 g



512E

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, 115 mm, 67 g



522N

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, 115 mm, 67 g



599E

Side cutter flush cut, with short and robust head, medium hard wire 1,0 mm, Cu 1,6 mm, 115 mm, 67 g

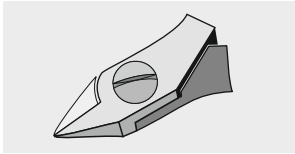


532N

Side cutter super full flush cut, for precise cutting, with very sharp cut, medium hard wire 0,8 mm, Cu 1,6 mm, 115 mm, 67 g

Cutters

Side- and Tip Cutters



Side Cutters – tapered head

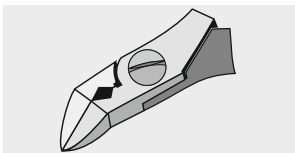
The small tapered cutter allows cutting in dense working areas.



Model/Order No.	Description
595E	Side cutter flush cut, small tapered head for cutting in dense working areas, medium hard wire 1,0 mm, Cu 1,3 mm, 115 mm, 67 g



577E	Side cutter flush cut, small short tapered head for cutting in dense working areas, medium hard wire 1,0 mm, Cu 1,3 mm, 115 mm, 67 g
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Tip Cutters – angled, wide head

Angled head for precision, reach and operator visibility.



Model/Order No.	Description
503E	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, 110 mm, 67 g



504AE	Tip cutter flush cut 30°, same as 503E but with fine rounded head, medium hard wire 0,8 mm, Cu 1,3 mm, 110 mm, 67 g
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Optional: Safety lead device + 12,60 Euro holds wire scraps after cutting.

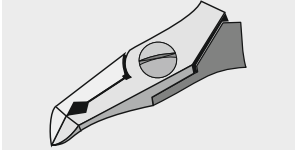
Note: For all side cutters series 500, 600 and 2400. Add "W" when ordering, e. g. 595EW

Info: Pliers of series 500 see chapter pliers.

Wire definitions see p. 22

Cutters

Side- and Tip Cutters



Tip Cutters – angled, narrow head

Angled head for precision, reach and operator visibility.



Model/Order No.

Description

555E

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, 120 mm, 68 g



572E

Tip cutter flush cut 40°, relieved jaws for easier access, medium hard wire 0,6 mm, Cu 1,3 mm, 115 mm, 68 g



582E

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, 115 mm, 68 g



582EW

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, 115 mm, 67 g



593AE

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, 115 mm, 68 g



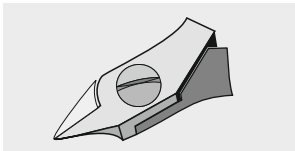
575E

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, 110 mm, 67 g

Wire definitions see p. 22

Cutters

Side- and Tip Cutters



Tip Cutters – tapered and relieved head

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



Model/Order No.

Description

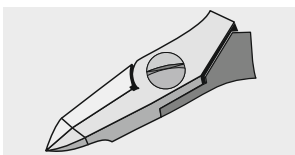
592E

Side cutter flush cut,
medium hard wire 0,4 mm, Cu 0,8 mm,
115 mm, 67 g



792E

Side cutter super full flush cut, very sharp cut,
medium hard wire 0,4 mm, Cu 0,6 mm,
115 mm, 67 g



Tip Cutters – straight, tapered and relieved head

Fine and narrow cutter head allows access in confined areas.



Model/Order No.

Description

570E

Tip cutter flush cut, horizontal
for cutting at extreme tips,
medium hard wire 0,4 mm, Cu 0,6 mm,
120 mm, 67 g

Tip Cutters – oval head for vertical tip cutting



Model/Order No.

Description

573E

Tip cutter flush cut, for soft wire,
Cu 0,8 mm,
120 mm, 67 g

Optional: Safety lead device + 12,60 Euro holds wire scraps after cutting.


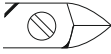
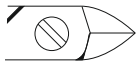
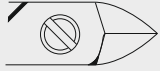
Note: For all side cutters series 500, 600 and 2400. Add "W" when ordering, e. g. 595EW

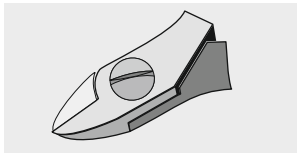
Cutters

Side- and Tip 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	New 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.



Model/Order No.

Description

812N

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



896E

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,
120 mm, 67 g



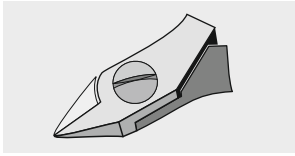
822N

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

Wire definitions see p. 22

Cutters

Side- and Tip Cutters

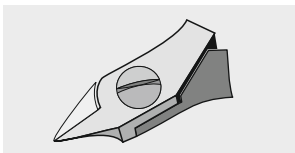


Side Cutters – tapered head

Small tapered head for cutting application in dense working areas.



Model/Order No.	Description
886E	Side cutter flush cut, with robust, tapered head, medium hard wire 1,0 mm, Cu 1,8 mm, 120 mm, 83 g



Tip Cutters – tapered and relieved head

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



Model/Order No.	Description
884E	Side cutter flush cut, with robust, tapered head, medium hard wire 0,8 mm, Cu 1,8 mm, 120 mm, 81 g

Optional: Safety lead device + 12,60 Euro holds wire scraps after cutting.

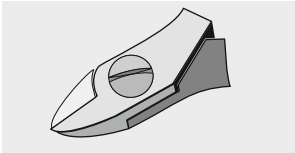
Note: For all side cutters series 500, 600 and 2400. Add "W" when ordering, e. g. 595EW

Cutters

Side- and Tip 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.



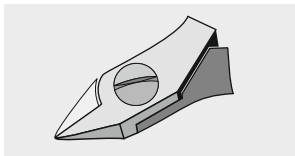
Model/Order No.	Description
622TX	Flush cut, miniature side cutter, small head, piano wire 0,2 mm, medium hard wire 0,6 mm, hard wire 0,4 mm, Cu 1,2 mm, 115 mm, 67 g



599T	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, 115 mm, 67 g
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599TF	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, 115 mm, 67 g
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Side Cutters – tapered head

Small tapered head for cutting application in dense working areas.



Model/Order No.	Description
595T	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, 115 mm, 67 g



595TF	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, 115 mm, 67 g
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Wire definitions see p. 22

Cutters

Side- and Tip Cutters

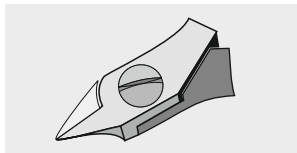
Side Cutters – tapered head (continued)



Model/Order No.	Description
2476TX1	Flush cut, small head allows very good access, fine tips, high precision side cutter series 2400 (MagicSense) for piano wire 0,3 mm, medium hard wire 0,5 mm, hard wire 0,4 mm, Cu 1,0 mm



576TX1	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
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Tip Cutters – tapered and relieved head

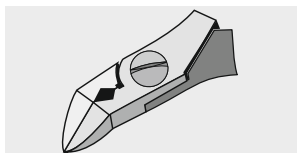
The smallest head shape. One side is cut away for access even in confined areas.



Model/Order No.	Description
2476TX	Flush cut, high precision tip cutter series 2400 (MagicSense), very fine tips, piano wire 0,1 mm, medium hard wire 0,3 mm, hard wire 0,2 mm, Cu 1,0 mm



576TX	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, 115 mm, 67 g
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Tip Cutters – angled, wide head

Angled head for precision, reach and operator visibility.



Model/Order No.	Description
503ET	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, 110 mm, 67 g



503ETF	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, 110 mm, 67 g
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Cutters

Specials / Pneumatic Side + Tip Cutters

Specials – high grade tool steel, ESD safe



Model/Order No.	Description
147A	Side cutter semi flush cut, compound action, Cu 1,8 mm, 120 mm, 100 g



884EPCM	Side cutter flush cut, for PCB separation only, 115 mm, 79 g, max. cutting capability wide 2,0 mm thickness 1,5 mm
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632NCF	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, 110 mm, 67 g
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599FO	Side cutter for Kevlar silks only, 115 mm, 67 g
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599TFO	Side cutter semi flush cut, high grade tool steel, Tungsten Carbide blades, for cutting fibre optics, Kevlar, vectran braided wires or small stainless wires, 115 mm, 67 g
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Pneumatic Side + Tip Cutters



Model/Order No.	Description
1500BSF	Pneumatic cutter housing, 130 mm, 130 g

Cutters

Pneumatic Side + Tip Cutters

Cutting Heads for 1500BSF

Side Cutters – Oval Head



Model/Order No.	Description
1512N	Cutting head semi flush cut, high grade tool steel, max. Cu 1,6 mm



1522N	Cutting head flush cut, high grade tool steel, max. Cu 1,6 mm
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Side Cutters – Tapered Head



Model/Order No.	Description
1522NA	Cutting head flush cut, high grade tool steel, max. Cu 1,4 mm

Side Cutters – relieved head



Model/Order No.	Description
1522NB	Cutting head flush cut, high grade tool steel, max. Cu 1,2 mm

Tip Cutters – angled head



Model/Order No.	Description
1503E	Cutting head flush cut 30°, high grade tool steel, max. Cu 1,2 mm



Model/Order No.	Description
1522NPC	Side cutter, suitable for cutting printed circuit boards, max. cutting capability wide 2,0 mm, thickness 1,5 mm

Cutters

Distance Cutters

Distance Cutters – high grade tool steel, ESD safe Fixed Cutting Height (= F)



Model/Order No.	Description
530E06	Distance cutter, flush cut, F = 0,6 mm, max. Cu 1,2 mm, 120 mm, 67 g
530E08	Distance cutter, flush cut, F = 0,8 mm, max. Cu 1,2 mm, 120 mm, 67 g
530E10	Distance cutter, flush cut, F = 1,0 mm, max. Cu 1,2 mm, 120 mm, 67 g
530E12	Distance cutter, flush cut, F = 1,2 mm, max. Cu 1,2 mm, 120 mm, 67 g
530E13	Distance cutter, flush cut, F = 1,3 mm, max. Cu 1,2 mm, 120 mm, 67 g
530E15	Distance cutter, flush cut, F = 1,5 mm, max. Cu 1,2 mm, 120 mm, 67 g
530E18	Distance cutter, flush cut, F = 1,8 mm, max. Cu 1,2 mm, 120 mm, 67 g
530E20	Distance cutter, flush cut, F = 2,0 mm, max. Cu 1,2 mm, 120 mm, 67 g

Cutters

Distance Cutters

Distance Cutters – high grade tool steel, ESD safe Fixed Cutting Height (= F), angle 45°



Model/Order No.	Description
549E	Distance cutter, flush cut, F = 1,5 mm, max. Cu 1,2 mm, 120 mm, 67 g

549E10	Distance cutter, flush cut, F = 1,0 mm, max. Cu 1,2 mm, 120 mm, 67 g
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549E12	Distance cutter, flush cut, F = 1,2 mm, max. Cu 1,2 mm, 120 mm, 67 g
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Distance Cutters – high grade tool steel, ESD safe Adjustable Cutting Height (= V)









Model/Order No.	Description
530E15A	Distance cutter, flush cut, V = 1,2 to 6 mm, max. Cu 1,2 mm, 120 mm, 70 g



573EB	Distance cutter, plastic anvil, flush cut, V = 0 to 5 mm, max. Cu 0,8 mm, 115 mm, 70 g
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Pliers

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

	Model/Order No.	Description
	543E	Round nose plier, with smooth jaws, very precise, 120 mm, 67 g
	547	Needle nose plier, with smooth rounded jaws, very precise, 120 mm, 67 g
	542E	Flat nose plier, with smooth jaws, precise radiused edges, 120 mm, 67 g
	531E	Flat nose plier, Nylon inserts to prevent nicking 125 mm, 67 g
	544E	Chain nose plier, with smooth jaws, 120 mm, 67 g
	544D	Chain nose plier, with smooth jaws, inside serrated, 125 mm, 67 g

Pliers

Pliers Series 2400 MagicSense – high grade tool steel, anti-glare finish, ESD safe

Model/Order No.	Description
2411P	Needle nose pliers with smooth rounded jaws, very precise, 146 mm
2411PD	Needle nose pliers, same as 2411P, but inside serrated tips, 146 mm
2442P	Flat nose pliers with smooth jaws, precise radiused edges, 146 mm
2443P	Round nose pliers with smooth jaws, very precise, for bending wires, 146 mm

Side Cutters



Model/Order No.	Description
EROP355	Side cutter, semi flush cut, burnished, ESD safe, max. Cu 1,0 mm, 110 mm, 61 g



EROP155	Side cutter, semi flush cut, burnished, ESD safe, max. Cu 1,0 mm, 110 mm, 72 g
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EROP419	Side cutter, semi flush cut, burnished, ESD safe, max. Cu 2,0 mm, 130 mm, 110 g
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EROP357	Side cutter, semi flush cut, burnished, ESD safe, max. Cu 0,6 mm, 110 mm, 61 g
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Tip Cutters



Model/Order No.	Description
EROP331	Tip cutter, flush cut, burnished, ESD safe, max. Cu 1,5 mm, 120 mm, 81 g



EROP330	Tip cutter, flush cut, burnished, ESD safe, max. Cu 1,0 mm, 130 mm, 84 g
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EROP

Cutters and Pliers

Pliers



Model/Order No.	Description
EROP172	Round nose plier, burnished, ESD safe, 125 mm, 63 g



EROP174	Needle nose plier, burnished, ESD safe, 120 mm, 66 g
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EROP277	Needle nose plier, burnished, ESD safe, 140 mm, 90 g
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EROP280	Needle nose plier, burnished, ESD safe, 170 mm, 113 g
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EROP170	Flat nose plier, burnished, ESD safe, 120 mm, 63 g
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EROP171	Flat nose plier, burnished, ESD safe, 120 mm, 67 g
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Stripping Tools

Front Stripping – high grade tool steel, ESD safe



Model/Order No.	Description
510AE	Front stripping tool, adjustable AWG 30–18 (0,25–1,02 mm), 120 mm, 75 g



552E	Front stripping tool, high precision, adjustable AWG 42–24 (0,06–0,60 mm), 120 mm, 80 g
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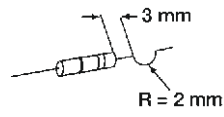

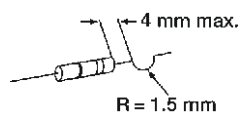

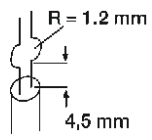

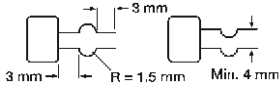

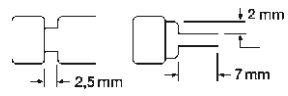
Side Stripping – high grade tool steel, ESD safe



Model/Order No.	Description
552S	Side stripping tool, high precision, adjustable AWG 42–24 (0,06–0,60 mm), 120 mm, 80 g

Pre-Forming Tools

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

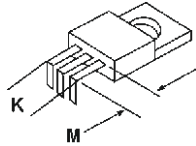
Model/Order No.	Description
 <p>554E</p> 	<p>Pre-forming tool, u-shape max. 65 mm, capacitors 0,7 mm, resistors 1/2 W, 120 mm, 70 g</p>
 <p>554A</p> 	<p>Pre-forming tool, u-shape transverse, max. 65 mm, head width 4 mm, 120 mm, 70 g</p>
 <p>554TX</p> 	<p>Pre-forming tool, double u-shape simultaneously,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

Pre-Forming Tools

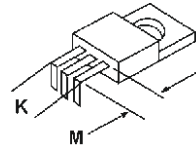
For Active Components – high grade tool steel, anti-glare finish, ESD safe



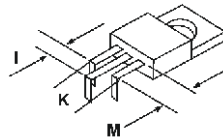
Model/Order No.	Description
500103A	Pre-forming tool, bents 3–12 mm, 120 mm, 85 g



500210E	Pre-forming tool, cut and bent 3,8–15 mm, 120 mm, 85 g
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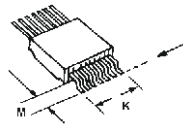
500104A	Pre-forming tool for 3 leads, 3,5–15 mm, 120 mm, 85 g
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For Flat Packs, Quads – high grade tool steel, ESD safe



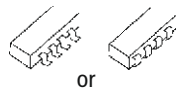
Model/Order No.	Description
80013C	Pre-forming tool, cut and bent, max. 13 mm, 120 mm, 100 g



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



Model/Order No.	Description
8091C	Pre-forming tool, cut and bent, up to 20 pins, 120 mm, 98 g



IC + SMD Tools

Inserting and Extracting – high grade tool steel, ESD safe



Model/Order No.	Description
505C	Inserting and extracting pliers, 14–16 pins, 20 mm, adjustable, 120 mm, width .300

505BGC	Inserting and extracting pliers, 28 pins, 36 mm, adjustable, 120 mm, width .300
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505BG	Inserting and extracting pliers, 28 pins, 36 mm, adjustable, 120 mm, width .600
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Straightening – high grade tool steel, ESD safe



Model/Order No.	Description
808G	Straightening pliers, 8 to 16 pins, parallel or laterally, 125 mm, 85 g

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



Model/Order No.	Description
670EP	High precision tip cutter for cutting leads up to 0,25 mm, 110 mm, 48 g



593AE	High precision tip cutter bent, cuts leads from the rear, medium hard wire 0,4 mm, Cu 1,0 mm, 115 mm, 67 g
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Fibre Optic Tools/Kits

Side Stripping – high grade tool steel, anti-glare finish, ESD safe



Model/Order No.	Description
552S	Side stripping tool, high precision, adjustable AWG 42–30 120 mm, 80 g

Cutting – high grade tool steel, ESD safe



Model/Order No.	Description
599FO	Side cutter for Kevlar silks only, 115 mm, 67 g



Model/Order No.	Description
599TFO	Side cutter semi flush cut, Tungsten Carbide blades, for cutting fibre optics, Kevlar and small stainless wires, 115 mm, 67 g

Holding / Gripping



Model/Order No.	Description
249SA	Precision tweezers with PPS tips, special stainless steel, unmagnetic, 120 mm, 20 g

Kit for SMD handling



Model/Order No.	Description
3900KC	Kit for SMD handling consists of: 51SA precision tweezers 102ACA SMD tweezers 103ACA SMD tweezers 150SAMB SMD tweezers 150SAMF SMD tweezers 670EP tip cutter

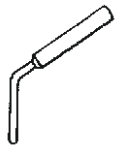
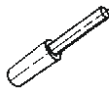
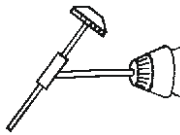
Vacuum Manipulator

Handle



Model/Order No.	Description
3000ESD	Handle

Adapter



Model/Order No.	Description
3200	Adapter 360° rotating, straight nozzle

3231	Adapter fix for use with suction tips series 3300
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3232	Adapter fix for use with suction cup 2052E
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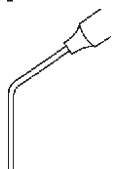
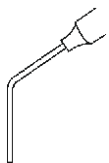
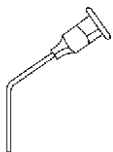
Suction Tips Straight



Model/Order No.	Description
2044Z	Suction tip 0,90 mm straight, Teflon tip for use with rotating adapter 3200 or fix adapter 3232

2041Z	Suction tip 1,4 mm straight, Teflon tip for use with rotating adapter 3200 or fix adapter 3232
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Suction Needles



Model/Order No.	Description
3303	Suction needle bent 45°, 0,16 mm, stainless steel, for use with fix adapter 3231

3305Z	Suction needle bent 45°, 0,25 mm, stainless steel, for use with fix adapter 3231
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3310Z	Suction needle bent 45°, 0,65 mm, stainless steel, for use with fix adapter 3231
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Vacuum Manipulator/Kits

Suction Cups



Model/Order No.	Description
2052E	Suction cup Ø 4,5 mm, Silicone rubber, for use with rotating adapter 3200 or fix adapter 3232

Accessories

Model/Order No.	Description
3715Z	Membrane pump 230 V, 5 l/min, max. vacuum -250 mbar (NOT FOR USE WITH 3000WESD)

3008ESD	Tubing system flexible, 1,8 m, ESD safe
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3717	Filter for tubing system 3008ESD
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3740	Table holder for 3000ESD w/o accessory
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Vacuum-Kit

Model/Order No.	Description
3000KCESD	Vakuum-Kit
	consists of:
	3000ESD Handle
	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
	3715Z Membrane pump 230 V
	3008ESD tubing system
	3717 Filter
	102ACA SMD tweezers



Tool Kits



Erem Toolset Universal

Model/Order No.	Description
3600KU	Erem Toolset Universal consists of: XP600 Precision-screwdriver set for electronics 2412E Series 2400 MagicSense side cutter, semi-flush, oval head 2442P Series 2400 MagicSense flat nose pliers 622NB Tip cutter, flush, relieved, long, fine head AASA Precision tweezers 2ASASL Precision tweezers



Erem 2400 MagicSense

Model/Order No.	Description
2400KMS	Erem 2400 MagicSense consists of: 2412E Series 2400 MagicSense side cutter, semi-flush, oval head 2482E Series 2400 MagicSense tip cutter, flush, narrow head 2411P Series 2400 MagicSense needle nose pliers



Erem Tweezers Prime Selection

Model/Order No.	Description
3300TPS	Erem Tweezers Prime Selection consists of: 3SA Precision tweezers with pointed tips straight 2ASA Precision tweezers with flat rounded tips for gripping smaller components, tip width 2 mm 7SA Precision tweezers curved, relieved, with pointed tips



Erem SMD Tweezers – Universal

Model/Order No.	Description
3400TSMDU	Erem SMD Pinzetten – Universal consists of: 103ACA SMD precision tweezers angled 45°, tip width 0.5 mm 150SAMF SMD precision tweezers with round tips, angled 40° 102ACAX SMD precision tweezers with angled pointed tips 7SA Precision tweezers curved, relieved, with pointed tips



Erem Premium Tweezers

Model/Order No.	Description
3500TP	Erem Premium Tweezers consists of: 3SA Precision tweezers with pointed tips straight 2ASA Precision tweezers with flat rounded tips 7SA Precision tweezers curved, relieved, with pointed tips 102ACA SMD precision tweezers tip width 0.5 mm, angled 45° 15AGW Cutting tweezers with narrow oblique head

Notes

