



Side cutters and tip cutters

FOR ALMOST EVERY APPLICATION

Internal patented Erem Magic Spring

The Magic Spring system used in Erem precision tools is unique. It is integral to the cutting head and provides a constant closing and re-opening force. It is highly reliable, makes the tools easy to use and reduces operator fatigue.

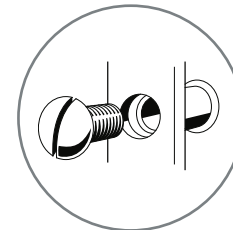
- Reduce costs thanks to long life
- Constant spring force
- Guarantees more than 1 million operations



High-precision screw joint

This self locking screw joint system gives a smooth cutting and opening action and ensures that there is no blade overlap or play.

- Smooth jaw action with no play
- Smooth cutting operation with no jaw overlapping



Induction-hardened cutting edges

The cutting blades of Erem cutters are hardened to Rockwell 63-65 HRc by an induction-heating process.

- High durability thanks special material selection

Special tool steel

Erem electronics tools are made from bright steel. They are not drop forged. The special tool steel is made using a unique Swiss processing technique.

- The bright tool steel gives additional strength and toughness to the tools to promote a long service life.



ESD-safe

The interchangeable foam-cushion handles are ESD-safe and are fitted as standard on all Erem cutters and pliers.



+ SAFE, RELIABLE AND FAST OPERATION BY PRECISE CUTS

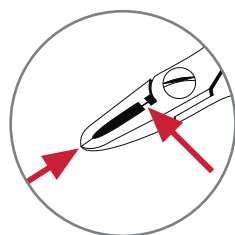
Ergonomically shaped handles

- For high comfort, better grip and added safety.

EMOS maximum opening stop

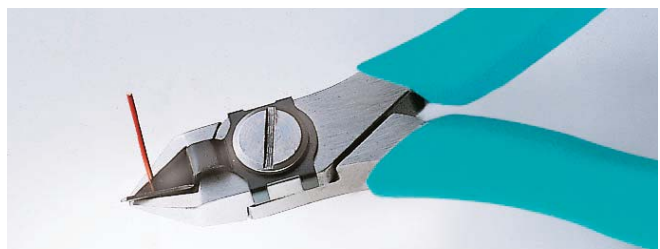
- Limits the cutting-edge tips from opening more than 5 mm/197 inch. The limited extent to which the handles can open prevents user hand fatigue.

+ COMFORTABLE AND FATIGUE-FREE WORKING.



Erem cutting-edge protection for tip cutters

All tip cutters are fitted with a special stop system which prevents the cutting edges from overlapping.



Safety device for holding wire scraps

This safety device for side cutters holds wire scraps securely after cutting. Available on most 500, 600 and 2400 series cutters (oval head). Order suffix "W" e.g. 595EW.



Cut shape

There are three blade options, which determine the shape left on a lead after cutting.



Semi-flush

This cut leaves a pyramidal tip at the end of the wire. It is particularly suitable for standard jobs where the final shape does not play a significant role. Cutters with this cut are suitable for both soft copper wires and very hard wires such as stainless steel.



Flush

This cut leaves a much smaller tip at the end of the wire than the semi-flush cut – without reducing the cutting ability. The cutting edges are finer than on semi-flush cutters. The effort exerted when cutting is less and the load on the component is reduced. Flush wire ends reduce the effort needed to fit components on printed-circuit boards. Erem guarantees precise cutting even after frequent use.



Super full flush

Only Erem offers you a super full flush cut. This cut provides absolutely flush wire ends. No rework is needed. Cutters with this cut are absolutely precision-ground and sharpened. The effort exerted when cutting is low, as is the load on the component caused by the cut. Soldering tags in soldering-bath procedures are prevented. Cutters of this type are used in applications for microelectronics, space travel or medical technology. These cutters are suitable for soft wires.



Erem

VS



Competitor



Service



Re-sharpening

Erem is your service partner. All Erem side and tip cutters except those with carbide insert blades can be re-sharpened up-to three times. Carriage charges will apply.

Replacement parts

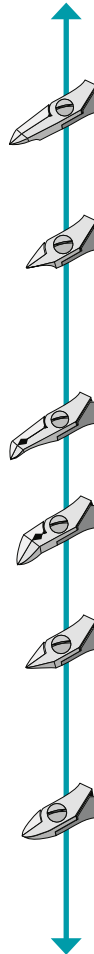
Erem cutters and pliers and their component parts are warranted against manufacturing defects. Magic springs, precision joint components are available as spare parts.



Choosing the right tool

	Micro Series 600	Medium Series 2400 MagicSense	Medium Series 500	Maxi Series 800	Tungsten-carbide cutters
	Miniature cutters for fine wires.	Medium-size cutters. Combines robustness, visibility and accessibility.		The strongest and most robust head size cuts large wire diameters.	
		Optimized ergonomic shape and an improved grade of hardness.			
 Tip cutter Straight relieved head • Horizontal and vertical cuts • Cutting in hard-to-reach areas	✓	✓	✓		
 Tip cutter Pointed relieved head • Narrowest head shape • Optimum access even to extremely hard-to-reach areas	✓		✓	✓	✓
 Tip cutter Angled narrow head • Precise cuts at different working angles		✓	✓		
 Tip cutter Angled wide head • Precise cuts at different working angles	✓	✓	✓		✓
 Side cutter Tapered head • Straight edges and taper to a point • Access to difficult to reach areas without reducing the cutting ability	✓	✓	✓	✓	✓
 Side cutter Oval head • Cutting in easy accessible areas • Offers the highest cutting capacity		✓	✓	✓	✓

Visibility and accessibility



High cutting ability



Choosing the right tool

Size

Micro
Series 600

Medium
Series 2400, Series 500

Maxi
Series 800

Head shape



Cut



Wire quality

- 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

Model	Cut	Cutting capability																					
		mm	0,03	0,1	0,2	0,3	0,4	0,5	0,6	0,7	0,8	0,9	1,0	1,1	1,2	1,3	1,4	1,5	1,6	1,7	1,8	1,9	
	Inch	.001	.003	.007	.011	.015	.019	.023	.027	.031	.035	.039	.043	.047	.051	.055	.059	.062	.066	.070	.074		
Micro Series 600																							
	612N Semi-flush																						
	622N Flush																						
	632N Super Full Flush																						
	622NA Flush																						
	622NB Flush																						
	676E Flush																						
	776E Super Full Flush																						
	632NCF Super Full Flush	Only for soft materials: silicone, rubber, etc.																					
	670E Flush																						
	670EP Flush	for micro housing																					
	670EPF Flush	Only for micro pitches under 0.5 mm / .019 Inch																					

Model	Cut	Cutting capability																					
		mm	0,03	0,1	0,2	0,3	0,4	0,5	0,6	0,7	0,8	0,9	1,0	1,1	1,2	1,3	1,4	1,5	1,6	1,7	1,8	1,9	
	Inch	.001	.003	.007	.011	.015	.019	.023	.027	.031	.035	.039	.043	.047	.051	.055	.059	.062	.066	.070	.074		
Medium Series 2400 MagicSense																							
	2412E Semi-flush																						
	2422E Flush																						
	2432E Super Full Flush																						
	2477E Flush																						
	2403E 30° Flush																						
	2404E 30° Flush																						
	2482E 45° Flush																						
	2475E 45° Flush																						
	2470E Flush																						



Series 600 Micro



A = Length of cutting edges
 B = Head width
 C = Head thickness
 D = Head length

Side cutter - oval head



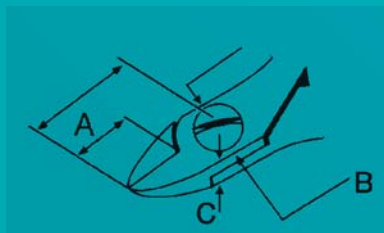
4.331 Inch / 110 mm
 1.69 oz. / 48 g

- This is the most widely used head shape.
- Fits for all cutting applications where easy access is given
- It is robust and size for size offers the highest cutting capacity.

Model	Cut	A		B		C		D		Max. cutting capability in mm		
		Inch	mm	Inch	mm	Inch	mm	Inch	mm	Hard wire	Medium hardness	Copper wire
612N	Semi Flush	0.354	9	0.354	9	0.236	6	0.590	15	Ø 0,5	Ø 0,8	Ø 1,3
T622N	Flush	0.354	9	0.354	9	0.236	6	0.590	15	-	Ø 0,8	Ø 1,3
632N	Super full flush	0.354	9	0.354	9	0.236	6	0.590	15	-	Ø 0,7	Ø 1,3
622NA	Flush	0.354	9	0.354	9	0.236	6	0.590	15	-	Ø 0,7	Ø 1,0




Series 500 Medium








A = Length of cutting edges
B = Head width
C = Head thickness
D = Head length

Side cutter - oval head



 4.528 Inch / 115 mm
 2.363 oz. / 67 g

- This is the most widely used head shape.
- Fits for all cutting applications where easy access is given
- It is robust and size for size offers the highest cutting capacity.

Model	Cut	A		B		C		D		Max. cutting capability in mm		
		Inch	mm	Inch	mm	Inch	mm	Inch	mm	Hard wire	Medium hardness	Copper wire
512N	 Semi Flush	0.472	12	0.433	11	0.256	6.5	0.748	19	Ø 0,5	Ø 1,0	Ø 1,6
512E	 Semi Flush	0.472	12	0.433	11	0.256	6.5	0.748	19	Ø 0,5	Ø 1,0	Ø 1,6 burnished head
522N	 Flush	0.472	12	0.433	11	0.256	6.5	0.748	19	-	Ø 1,0	Ø 1,6
599E	 Flush	0.472	10	0.433	11	0.256	6.5	0.669	17	-	Ø 1,0	Ø 1,6 short, robust head
532N	 Super full flush	0.472	10	0.433	11	0.256	6.5	0.748	19	-	Ø 0,8	Ø 1,6