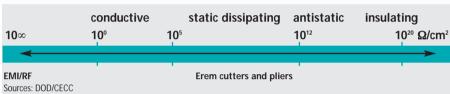
Erem impresses



ESD-safe

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



Internal patented 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

Erem Cut: Options for semi flush, full flush or super flush 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 lnch. The limited extent to which the handles can open prevent user hand fatigue.



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 Series 500, 600 and 2400 cutters (oval head). Order suffix "W", e.g. 595EW.

Induction-hardened cutting edges in Rockwell hardness 63 – 65 HR

for exceptionally long life

Erem impresses

Erem Technology

Special tool steel

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

The advantage:

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

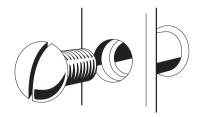


The internal patented Erem Magic **Spring**

The Magic Spring system used in Erem precision tools is unique. It is integral to the cutting head and provides a constant closing and reopening force. It is guaranteed for 1 million operations.

The advantage:

The Magic Spring system is highly reliable, makes the tools easy to use and reduces operator fatigue.



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

The advantage:

Precision cutting and reduced shock to components.

EMOS maximum opening stop

The unique EMOS (Erem Maximum Opening **S**top) system prevents the tips from opening more than 5 mm/.197 Inch. It reduces user fatigue by preventing excessive hand spread.

The advantage:

Comfortable and fatigue free working.

Handle

Erem cutters and pliers with ergonomic handles

Work Related Upper Limb Disorder (WRULD) can be caused by positional fatigue or nerve damage brought about by the repeated use of non-ergonomic hand tools, otherwise known as Repetitive Strain Injuries (RSI).

WRULDS is a direct consequence of insufficient ergonomics in manufacturing processes and working practices. To reduce the factors which cause WRULDS, Erem has developed a range of tools with ergonomic handles (Series 2400 MagicSense).

The handle shape and special materials ensure a soft feel, operating comfort and safety. The specially shaped handles ensure that the gripping pressure is evenly spread over the entire palm of the hand. The thumb and fingers automatically find their best position. The effort that has to be exerted by the user is reduced, thereby reducing hand fatigue.

The anti-slip surface provides excellent grip. The material is highly resistant to perspiration, water, oil and chemicals. The handles are ESDsafe and are easily interchangeable.





Erem Cut

Cut shape

There are three blade options, which determine the shape left on a lead after cutting. (see also P. 35)



1. Semi-flush



2. Flush



3. Super full flush

Cutting edge

Erem cutters are noted for their ease of use, one of the reasons for this is the ability of the blade to cut equally well over its full length. This promotes operator comfort and reduces fatique.

Semi-flush cutters offer the best performance and the longest service life. Super full flush cutters leave a flat wire end with minimal effort and prevent components from being subjected to load.

The advantage:

High level of user comfort thanks to special cutting edge.

Erem cut Super full flush: perfect flush cut

Standard cut
"Super full flush"

Erem Service

Rockwell hardness

The cutting blades of Erem cutters are hardened to Rockwell 63-65 HRc by an induction heating process. Continuous process control ensures that the blades achieve the correct level of hardening and are not embrittled.

The advantage:

This level of hardening plus the high-grade tool steel used in the manufacture of the tools and continuous process control promote an exceptionally long service life.

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.

The advantage:

The re-sharpened tool is as good as new, its life is extended and costs are reduced.

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.

The advantage:

The warranty and availability of spares guarantee long service life.



ESD-safe

The ergonomic, interchangeable molded handles are ESD-safe and are fitted as standard on all Erem cutters and pliers.

Choosing the right tool

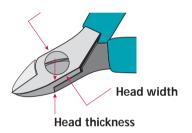
Selection criteria

Erem offers a wide selection of precision side and tip cutters for virtually any application.

When choosing the right cutter, it is important to take

- Size
- Cut
- Head shape
- Cutting capacity into consideration.

Size



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	Me	dium	Maxi					
Series 600	Series 2400 MagicSense	Series 500	Series 800					
Size	ur July							
Head width 9.0 mm/.354 Inch	Head width 11.0 mm/.433 Inch	Head width 11.0 mm/.433 Inch	Head width 13.5 mm/.331 Inch					
Head thickness 6.0 mm/.236 Inch	Head thickness 6.0 mm/.236 Inch	Head thickness 6.5 mm/.256 Inch	Head thickness 7.5 mm/.295 Inch					
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.	bility and accessibility. L shapes for precision wo areas. The Series 2400 N	Head thickness 6.0 mm/.236 Inch Medium-size cutter. Combines robustness, visibility and accessibility. Large variety of head sizes shapes for precision working in hard-to-reach areas. The Series 2400 MagicSense offers an optimised ergonomic shape and an improved Head thickness 6.5 mm/.256 Inch The strophed sizes shapes of the same application of the same and the s						

Cut

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



Erem cut Super full flush: perfect flush cut

Standard cut "Super full flush"



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 capacity. 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

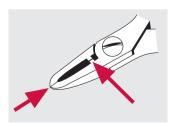
Only Erem offers you a super full flush cut. This cut provides absolutely flush wire ends. No rework is needed. Cutters with this cut are absolutely precision-ground and sharpened. The effort exerted when cutting is low, as is the load on the component caused by the cut. Soldering tags in soldering-bath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

Choosing the right tool

Head shape

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	This head is suitable for horizontal and vertical cuts. The long tips facilitate cutting in hard-to-reach areas.	This is the narrowest head shape. The underside is relieved and facilitates optimum access even to extremely hard-to-reach areas.	The angled head provides for precise cuts at different working angles.
Series 600 Micro	670E*, 670EP*, 670EPF* (P. 45)	622NB, 632NCF, 676E, 776E	
Series 2400 MagicSense	2470 E (P. 49)	(P. 44)	2475E, 2482E (P. 49)
Series 500 Medium	570E , 573E **(P. 55)	592E , 792E (P. 54)	555E , 572E , 582E (P. 53), 575E , 593AE (P. 54)
Series 800 Maxi		884E (P. 58)	



** Straight head for vertical working

* Very short head

Erem cutting-edge protection for tip cutters

Erem tip cutters are equipped with cutting-edge protection. A special stop system prevents the cutting edges from overlapping.

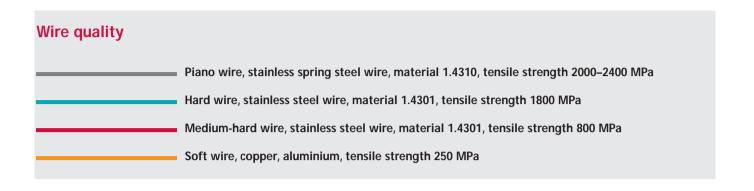


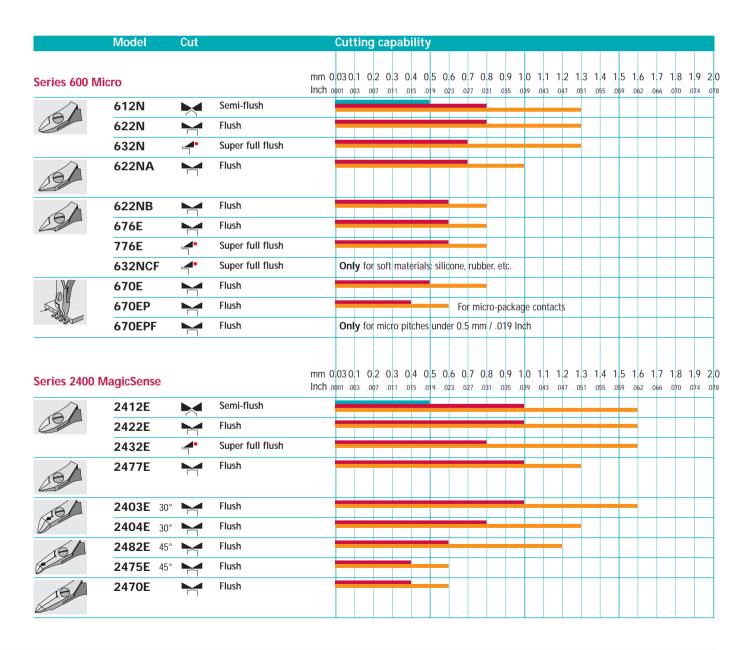
Tip cutter Angled wide head	Side cutter Tapered head	Side cutter Oval head	
			► High cutting capacity
The angled head provides for precise cuts at different working angles.	The jaws of the cutter have straight edges and taper to a point. This head shape allows access to difficult to reach areas but reduces the cutting capacity in comparison to the same size oval head cutter.	This is the most widely used head shape, it is robust and size for size offers the highest cutting capacity.	Cutting over the full length of the cutter
	622NA (P. 44)	612N, 622N, 632N (P. 43)	
2403E, 2404E (P. 48)	2477E (P. 48)	2412E, 2422E, 2432E (P. 47)	
503E, 504AE (P. 52)	577E, 595E (P. 52)	512E , 512N , 522N , 532N , 599E (P. 51)	
	886E (P. 58)	812N, 822N, 896E (P. 57)	

Erem offers carbide cutters (see P. 38) for cutting high-hardness wire (piano wire)

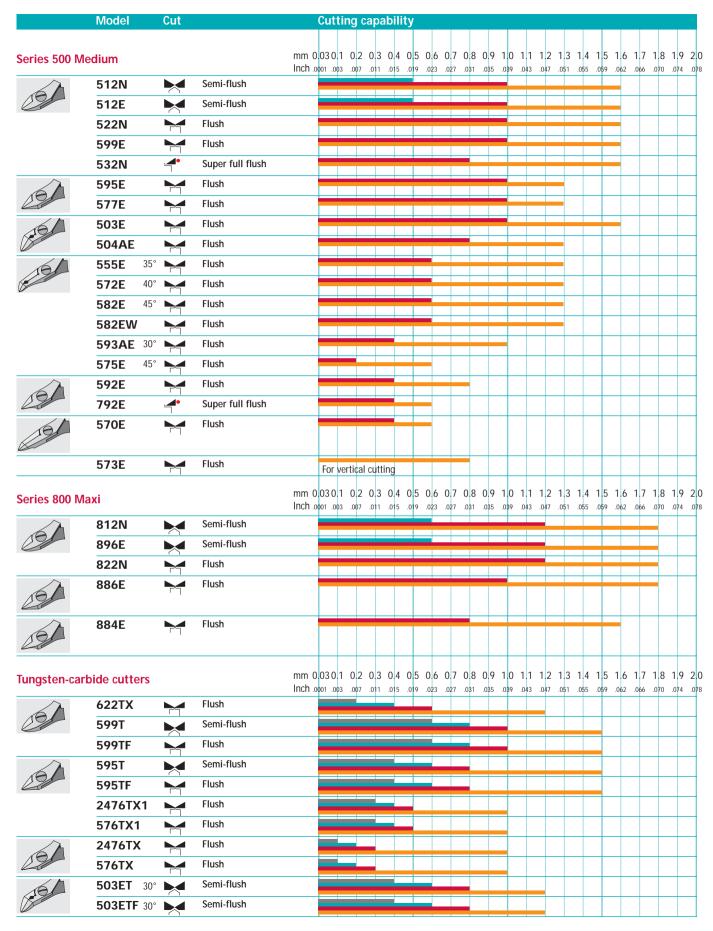
Choosing the right tool

Cutting capacity









Special applications

Side cutters for use in medidical device manufacturing





The 632NCF miniature side cutter is ideally suitable for soft material such as silicone tubes in medical device applications, precision connector seals or miniature rubber seals.

The miniature cutter is also the ideal tool for cutting soft synthetic parts, e.g. in the manufacture of hearing aids.

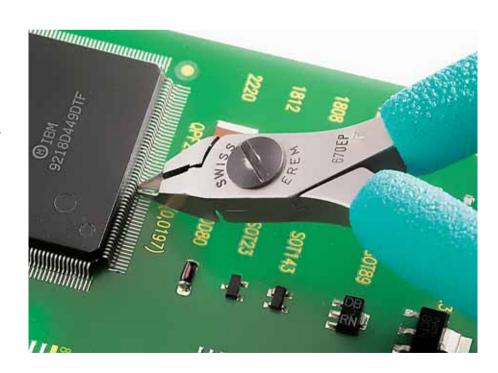
The cutting edges of the 632NCF side cutter are precision-ground to an extremely high level. This enables the cutter to deliver a razor-like full-flush cut.

Tip cutters to remove fine pitch SMD ICs

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

The solder left on the board can then be removed with a desoldering tool or desolder braid and a new component fitted.

The 670EP and 670EPF have fine pointed tapered and relieved heads that are able to fit between individual leads and cut them without causing damage to the printed circuit.





Tungsten-carbide cutter for the preparation of cardio-vascular stents

A stent is a vascular-wall prop. It is a latticeshaped tube made of stainless steel or nickeltitanium. It serves to hold open constricted coronary blood vessels and improves the flow of blood through the vessels.

It is important in stent manufacture that the cut end of any wire in the lattice is as flat as possible, otherwise it will be necessary rework the stents.

These side cutters have fine polished carbide cutting blades to accurately cut the lattice and reduce the need for rework.



High precision side cutter for cutting stainless wires



The 599TFO has wear resistant tungsten carbide cutting edges and all round capability. It is able to cut Vectran™ braided wires, fibre optics, Kevlar® and small stainless steel braids and wires.

A further application lies in telecommunications, i.e. working on fibre-optic cables, Kevlar® silks and piano wires.

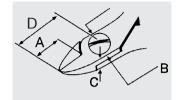
Series 600 Micro

- Miniature cutters
- Offers a wide variety of head shapes for access in difficult to reach areas
- Suitable for SMD and leads (670EP, 670EPF)
- Made from high grade tool steel with cutting edges hardened to 63-65HRc
- Non reflecting surface, ESD safe, resharpenable





Series 600 Micro



A = length of cutting edges

B = head width

C = head thickness

D = head length







Tip cutter Pointed relieved head



Side cutter Tapered head



Side cutter Oval head



Visibility and accessibility

Robustness, high cutting capacity

Side cutter - oval head





110 mm / 4.331 Inch 48 g / 1.69 oz.

- This is the most widely used head shape.
- It is robust and size for size offers the highest cutting capacity.

Model	Cut	Dimensions in mm/Inch			m/Inch	Max. cutting capability in mm/Inch Diameter			
		Α	В	С	D	Hard wire	Medium hardness	Copper wire	
612N	Semi-flush	9 .354	9 .354	6	15 .590	0.5 .019	0.8 .031	1.3 .051	
622N	Flush	9 .354	9 .354	6	15 .590	-	0.8	1.3 .051	
632N	Super full flush	9 .354	9 .354	6	15 .590	-	0.7 .027	1.3 .051	

Series 600 Micro

Side cutter - tapered head





- The jaws of the cutter have straight edges and taper to a point.
- This head shape allows access to difficult to reach areas but reduces the cutting capacity in comparison to the same size oval head cutter.

Model	Cut	Dimensio	ns in mm/Inch	Max. cutting capability in mm/Inch Diameter
		A B	C D	Medium hardness Copper wire
622NA	Flush	9 9 .354 .354	6 15 .236 .590	0.7

Tip cutter - pointed relieved head





- This is the narrowest head shape.
- The underside is relieved and facilitates optimum access even to extremely hard-to-reach areas.

Model	Cut	Dimensio A B	ns in mm/Inch C D	Max. cutting capability in mm/Inch Diameter Medium hardness Copper wire
622NB	Flush	9 9 .354 .354	6 15 .236 .590	0.6
676E	Flush	9 9 .354 .354	6 15 .236 .590	Model same as 622NB, but with short, robust head
776E	Super full flush	9 9 .354 .354	6 15 .236 .590	0.6
632NCF	Super full flush	9 9 .354 .354	6 15 .236 .590	For soft material such as small silicone tubes, miniature rubber seals or for cutting soft synthetic parts



Series 600 Micro



Tip cutter - straight short relieved head





■ Suitable for cutting SMD and micro-package contacts.

Model	Cut	Dimensio A B	ns in mm/Inch C D	Max. cutting capability in mm/Inch Diameter Medium hardness Copper wire
670E	Flush	9 9 .354 .354	6 18 .236 .709	0.5
670EP	Flush	9 9 .354 .354	6 18 .236 .709	0.4 0.6 High-precision working on SMD and micro- 2015 2023 package contacts up to 0.25 mm/.010 Inch
670EPF*	Flush	3 9 .354 .354	6 18 .236 .709	Model same as 670EP, but smaller version only for micro pitches under 0.5 mm/.019 lnch (see also P. 40)

^{*}Not available in North America

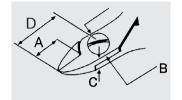
Series 2400 MagicSense

- Medium-size cutter
- Combines robustness, visibility and accessibility.
- Large variety of head shapes for precision working in hard-to-reach areas.
- The optimised ergonomic shape of the Series 2400 MagicSense prevents hand fatigue
- Improved induction-hardened cutting edges up to 64 – 65 HRc for an extremely long service life
- Cutting edges made from special tool steel
- Non-reflecting surface, ESD-safe and resharpenable





Series 2400 MagicSense



A = length of cutting edges

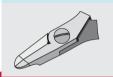
B = head width

C = head thickness

D = head length



Tip cutter Straight long relieved head



Tip cutter Angled narrow head



Tip cutter Angled wide head



Side cutter Tapered head



Side cutter Oval head



Visibility and accessibility

Robustness, high cutting capacity

Side cutter - oval head





130 mm/5.118 lnch 70 g / 2.47 oz.

- This is the most widely used head shape.
- It is robust and size for size offers the highest cutting capacity.

Model	Cut	Dimensio A B	ns in m C	nm/Inch D	Max. cutting o	capability in mm/Incl Medium hardness	
2412E	Semi-flush	12 11 .472 .433	6 .236	19 .748	0.5 .019	1.0 .039	1.6 .062
2422E	Flush	12 11 .472 .433	6	19 .748	-	1.0 .039	1.6 .062
2432E	Super full flush	12 11 .472 .433	6 .236	19 .748	-	0.8	1.6 .062

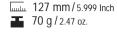
Wire quality, see P. 38

Optional: Safety device for wire scraps. Order suffix "W", e.g. 2412W.

Series 2400 MagicSense

Side cutter - tapered head





- The jaws of the cutter have straight edges and taper to a point.
- This head shape allows access to difficult to reach areas but reduces the cutting capacity in comparison to the same size oval head cutter.

Model	Cut	Dimensi	Dimensions in mm/Inch		Max. cutting capability in mm/Inch Diameter	
		A B	С	D	Medium hardness	Copper wire
2477E		12 12	11	6	1.0	1.3
	Flush	.472 .47	2 .433	.236	.039	.051

Tip cutter - angled wide head





■ The angled head provides for precise cuts at different working angles.

Model	Cut	Dimen A	nsions in r B C	nm/Inch D	Max. cutting cap Medium hardnes		m/Inch Diameter vire
2403E	Flush	,	11 6 .433 .236	19 .748	1.0 .039	1.6 .062	Wide, robust head, fine cut
2404E	Flush	,	11 6 .433 .236	20 .787	0.8 .031	1.3 .051	Model same as 2403E, but with pointed rounded head



Series 2400 MagicSense

Tip cutter - angled narrow head





■ The angled head provides for precise cuts at different working

Model	Cut				m/Inch	•		mm/Inch Diameter
		Α	В	L	D	Medium hardness	Coppe	er wire
2482E	Flush	6 .236	11 .433	6 .236	26 1.024	0.6	1.2	Suitable for working on printed-circuit boards, component connections, can be used in both 90° and 180° applications
2475E	Flush	4 .157	11 .433	6	22 .866	0.4 .015	0.6	Suitable for fine cutting work on hybrid circuits of miniature components.

Tip cutter - straight long relieved head





- This head is suitable for horizontal and vertical cuts.
- The long tips facilitate cutting in hard-to-reach areas.

Model	Cut	Dimen	Dimensions in mm/Inch		Max. cutting	Max. cutting capability in mm/Inch Diameter	
		Α	В С	D	Medium har	dness Copper wire	
24705		4	11 /	20	0.4	0.7	
2470E	' '	4	11 6	29	0.4	0.6	
	Flush	.157	.433 .236	1.142	.015	.023	



Safety device for wire scraps only possible on 2412EW, 2422EW, 2432EW, 2477EW, 2482EW models.

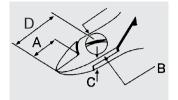
Series 500 Medium

- Medium size, robust, precision cutters
- Wide range of head shapes
- Manufactured from high grade tool steel
- Cutting edges hardened to Rockwell 63-65 HRc
- Non reflecting surface, ESD safe and resharpenable





Series 500 Medium



A = length of cutting edges

B = head width

C = head thickness

D = head length



Tip cutter Straight long relieved head



Tip cutter Pointed relieved head



Tip cutter Angled narrow head



Tip cutter Angled wide head



Side cutter Tapered head



Side cutter Oval head



Visibility and accessibility

Robustness, high cutting capacity

Side cutter - oval head



115 mm / 4.527 Inch 67 g / 2.36 oz.

- This is the most widely used head shape.
- It is robust and size for size offers the highest cutting capacity.

Model	Cut			m/Inch D	Max. cutting ca Hard wire	apability in mm/Inch Medium hardness		
512N	Semi-flush	 11 .433	6.5 .256	19 .748	0.5 .019	1.0 .039	1.6 .062	
512E	Semi-flush	11 .433	6,5 .256	19 .748	Model same as	512N, but with burnish	ned head	
522N	Flush	 11 .433	6.5 .256	19 .748	-	1.0 .039	1.6 .062	
599E	Flush	 11 .433	6.5 .256	17 .669	-	1.0 .039	1.6	Short, robust head
532N	Super full flush	 11 .433	6.5 .256	19 .748	-	0.8 .039	1.6	

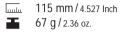
Wire quality, see P. 38

Optional: Safety device for wire scraps. Order suffix "W", e.g. 512NW.

Series 500 Medium

Side cutter - tapered head





- The jaws of the cutter have straight edges and taper to a point.
- This head shape allows access to difficult to reach areas but reduces the cutting capacity in comparison to the same size oval head cutter.

Model	Cut	Dime	nsions	s in m	m/Inch	Max. cutting capa	bility in mm/	Inch Diameter
		Α	В	С	D	Medium hardness	Copper wire)
595E	Flush		11 .433	6.5 .256		1.0 .039	1.3 .051	Tapered head
577E	Flush	10 .472	11 .433	6.5 .256	17 .669	1.0 .039	1.3 .051	Tapered, short head

Tip cutter - angled wide head





■ The angled head provides for precise cuts at different working angles.

Model	Cut		nsions B	in m	m/Inch D	Max. cutting capal Medium hardness		
503E	Flush	9 .354	11 .433	6.5 .256	19 .748	1.0 .039	1.6 .062	Wide, robust head
504AE	Flush	9.354	11 .433	6.5 .256	19 .748	0.8	1.3 .051	Model same as 503E, but with pointed rounded head





Series 500 Medium

Tip cutter - angled narrow head





120 mm / 4.724 Inch 68 q / 2.40 oz.

- The angled head provides for precise cuts at different working
- Narrow, robust head, suitable for working with high cutting force in confined areas.

Model	Cut	Dimensio	ns in mm/Inch	Max. cutting capability in mm/Inch Diameter
		A B	C D	Medium hardness Copper wire
555E		6 11	6.5 24	0.6 1.3
	Flush	.236 .433	.256 .945	.023 .051





115 mm / 4.527 Inch 68 g / 2.40 oz. 40°

Relieved cutting edge for easy access.

Model	Cut	Dime	Dimensions in mm/Inch		Max. cutting	capability in mm/Inch Diameter	
		A	В	С	D	Medium hard	Iness Copper wire
572E		6	11	6.5	21	0.6	1.3
	Flush	.236				.023	.051





115 mm / 4.527 Inch 68 g / 2.40 oz.

■ Suitable for working on printed-circuit boards, component connections, can be used in both 90° and 180° applications.

Model	Cut	Dimensio	ons in mm/Inch	Max. cutting capability in mm/Inch Diameter
		A B	C D	Medium hardness Copper wire
582E		6 11	6.5 26	0.6 1.3
	Flush	.236 .43	3 .256 1.024	.023 .051





115 mm / 4.527 Inch 67 g / 2.36 oz.

Model same as 582E, but with safety device for wire scraps.

Model	Cut	Dimensio	ns in mm/Inch	Max. cutting capability in mm/Inch Diameter
		A B	C D	Medium hardness Copper wire
582EW		4 11	4 F 24	0.4
DOZEVV	1	0 11	6.5 26	0.6
	Flush	.236 .433	.256 1.024	.023 .051

Series 500 Medium

Tip cutter - angled narrow head

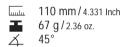




Ideal rework tool, suitable for cutting DIL contacts at front and rear and densely printed circuit boards.

Model	Cut	Dimensio	ns in mm/Inch	Max. cutting capability in mm/Inch Diameter.
		A B	C D	Medium hardness Copper wire
593AE		4 11	6.5 26	0.4 1.0
	Flush	.157 .433	.256 1.024	.015 .039



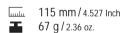


■ Suitable for fine cutting work on hybrid circuits or miniature components.

Model	Cut	Dimensio	ns in mm/Inch	Max. cutting capability in mm/Inch Diameter
		A B	С	Medium hardness Copper wire
575E		4 11	6.5 22	0.2 0.6
	Flush	.157 .433	.256 .866	.007 .023

Tip cutter - pointed relieved head



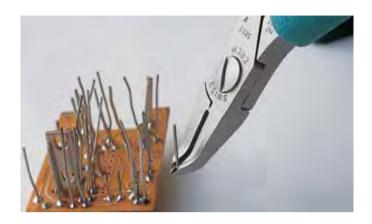


- This is the narrowest head shape.
- The underside is relieved and facilitates optimum access even to extremely hard-to-reach areas.

Model	Cut		nsion: B		m/Inch D	Max. cutting capa Medium hardness	bility in mm/Inch Diameter Copper wire
592E	Flush	12 .472	11 .433	6.5 .256	19 .748	0.4 .015	0.8 .031
792E	Super full flush	12 .472	11 .433	6.5 .256	19 .748	0.4 .015	0.6 .023

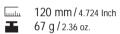


Series 500 Medium



Tip cutter - straight long relieved head



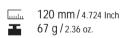


- This head is suitable for horizontal and vertical cuts.
- The long tips facilitate cutting in hard-to-reach areas.

Model	Cut	Dimensio	ns in mm/Inch	Max. cutting capability in mm/Inch Diameter	
		A B	C D	Medium hardness Copper wire	
570E		4 11	6.5 29	0.6 1.2 For cutting at extreme tips	
	Flush	.157 .433	.256 1.142	.023 .047	

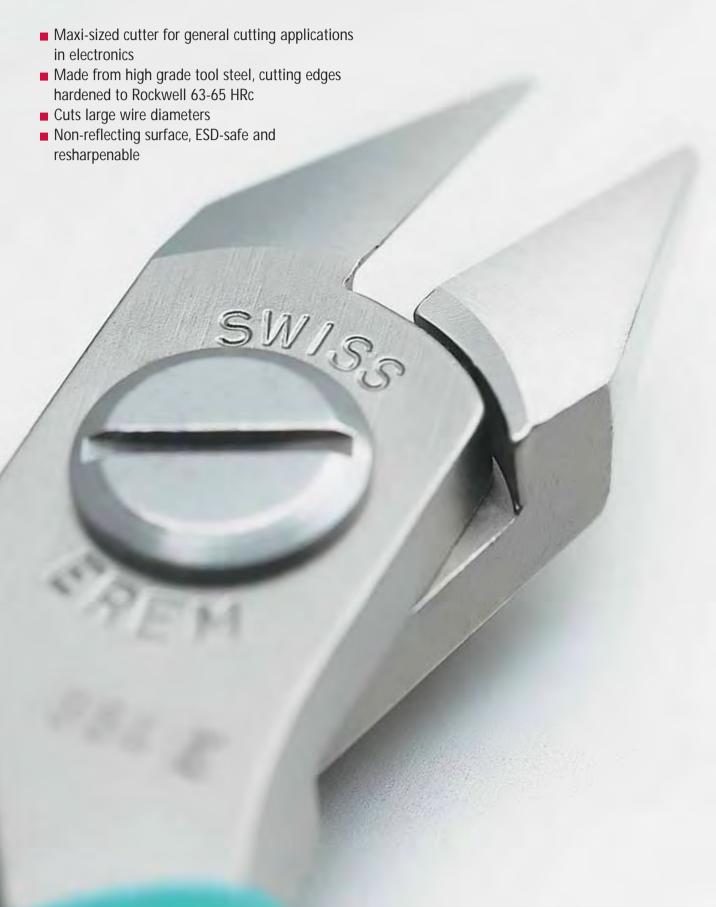
Tip cutter - straight head for vertical use





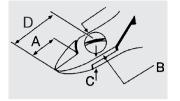
Model	Cut	Dimensio	ons in mm/Inch	Max. cutting capability in mm/Inch Diameter
		A B	C D	Medium hardness Copper wire
573E		4 11	6.5 29	0.4 0.6
	Flush	.157 .433	3 .256 1.142	.015 .023

Series 800 Maxi





Series 800 Maxi



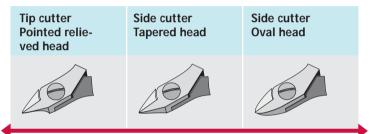
A = length of cutting edges

B = head width

C = head thickness

D = head length



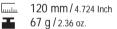


Visibility and accessibility

Robustness, high cutting capacity

Side cutter - oval head





- This is the most widely used head shape.
- It is robust and size for size offers the highest cutting capacity.

Model	Cut	Dimens	sions in m	nm/Inch	Max. cutting	capability in mm/Incl	h Diamete	er
		A E	3 C	D	Hard wire	Medium hardness	Copper	wire
812N	Semi-flush		13.5 7.5 531 .295	21 .827	0.6 .023	1.2 .047	1.8 .070	
896E	Semi-flush		13.5 7.5 531 .295	21 .827	0.6 .023	1.2 .047	1.8	Suitable for cutting hard wires, Kovar, connector pins
822N	Flush		13.5 7.5 531 .295	21 .827	-	1.2 .047	1.8 .070	

Series 800 Maxi

Side cutter - tapered head





- The jaws of the cutter have straight edges and taper to a point.
- This head shape allows access to difficult to reach areas but reduces the cutting capacity in comparison to the same size oval head cutter.

Model	Cut	Dime	ensions	in m	m/Inch	Max. cutting capability in mm/Inch	Diameter
		Α	В	С	D	Medium hardness	Copper wire
886E		15	13.5	7.5	21	1.0	1.8
	Flush	.590	.531	.295	.827	.039	.070

Tip cutter - pointed relieved head



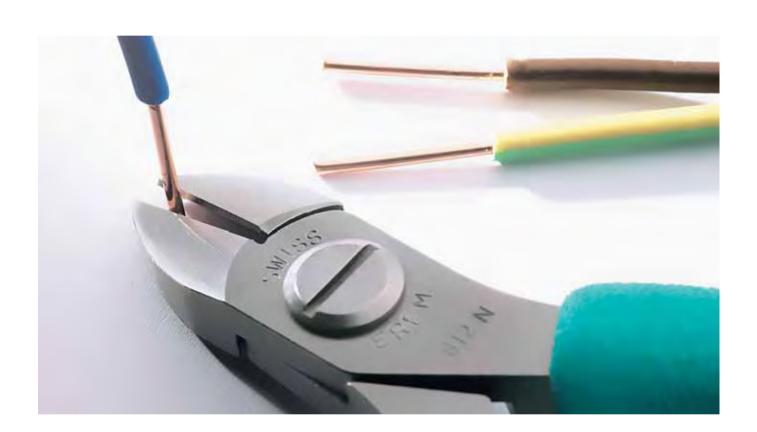


- This is the narrowest head shape.
- The underside is relieved and facilitates optimum access even to extremely hard-to-reach areas.

Model	Cut	Dimensio	ns in mm/Inch	Max. cutting capability in	n mm/Inch Diameter
		A B	C D	Medium hardness	Copper wire
884E		15 13.5	5 7.5 21	0.8	1.6
	Flush	.590 .531	.295 .827	.031	.062

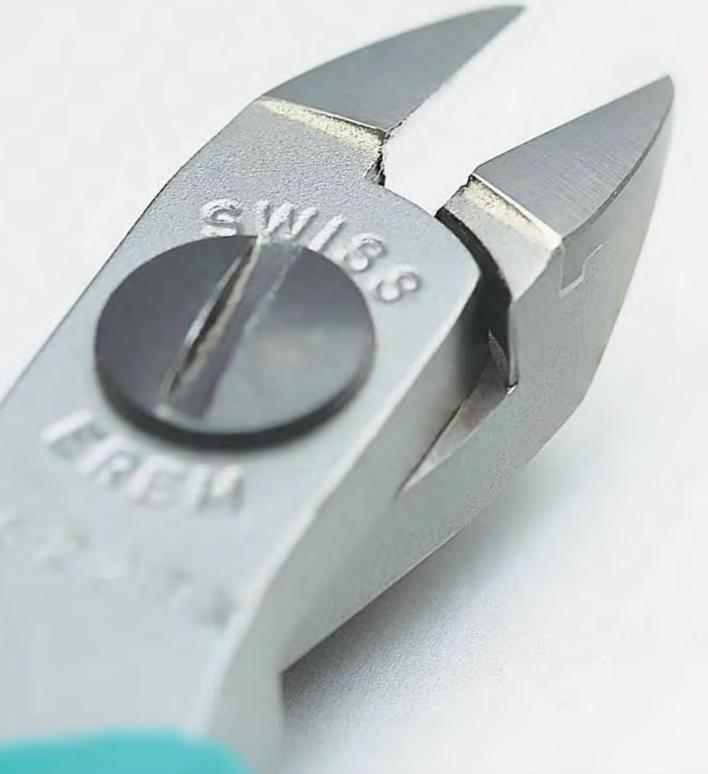


Series 800 Maxi



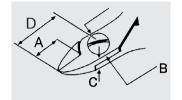
Tungsten-carbide cutters

- Medium sized precision cutters
- Wear resistant tungsten carbide edged cutting
- Manufactured from high grade tool steel
- Suitable for cutting hard and tough wires e.g. piano wire, nickel and diode leads
- Non reflecting surface, ESD safe and resharpenable





Tungsten-carbide cutters



A = length of cutting edges

B = head width

C = head thickness

D = head length









Side cutter Oval head





Visibility and accessibility

Robustness, high cutting capacity

Side cutter - oval head





67 g / 2.36 oz.

- 115 mm / 4.527 lnch This is the most widely used head shape.
 - It is robust and size for size offers the highest cutting capacity.

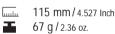
Model	Cut	Dim	Dimensions in mm/Inch			Max. cutting	Max. cutting capability in mm/Inch Diameter					
		Α	В	С	D	Piano wire	Hard wire	Medium hardness	Copper	wire		
622TX	Flush	8 .315	9 .354	6 .236	15 .590	0.2	0.4 .015	0.6 .023	1.2 .047	Miniature cutter		
599T	Semi-flush	12 .472	11 .433	6.5 .256	19 .748	0.6	0.8	1.0 .039	1.5 .059			
599TF	Flush	12 .472	11 .433	6.5 .256	19 .748	0.6	0.8	1.0 .039	1.5 .059			

Tungsten-carbide cutters



Side cutter - tapered head





- 115 mm/4.527 Inch The jaws of the cutter have straight edges and taper to a point.
 - This head shape allows access to difficult to reach areas but reduces the cutting capacity in comparison to the same size oval head cutter.

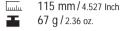
Model	Cut	Dim	ension	is in m	m/Inch	Max. cutting	capability in	mm/Inch Diameter	
		Α	В	С	D	Piano wire	Hard wire	Medium hardness	Copper wire
595T	Semi-flush	12 .472	11 .433	6.5 .256	19 .748	0.4 .015	0.6	0.8 .031	1.5 .059
595TF	Flush	12 .472	11 .433	6.5 .256	19 .748	0.4	0.6	0.8 .031	1.5 .059
2476TX1	Flush	11 .433	11 .433	6 .236	19 .748	0.3	0.4 .015	0.5 .019	1.0 Series 2400 MagicSense model .039 (Length: 130 mm / 5.118 lnch)
576TX1	Flush	11 .433	11 .433	6.5	19 .748	0.3	0.4 .015	0.5 .019	1.0



Tungsten-carbide cutters

Tip cutter - pointed relieved head





- 115 mm / 4.527 Inch This is the narrowest head shape.
 - The underside is relieved and facilitates optimum access even to extremely hard-to-reach areas.

Model	Cut	Dime A	ension B		m/Inch D		capability in Hard wire	mm/Inch Diameter Medium hardness	Copper	wire
2476TX	Flush	11 .433	11 .433	6 .236	19 .748	0.1	0.2	0.3 .011	1.0 .039	Series 2400 MagicSense model
576TX	Flush	11 .433	11 .433	6.5 .256	19 .748	0.1	0.2	0.3 .011	1.0	

Tip cutter - angled wide head



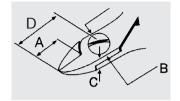


67 g / 2.36 oz. 30°

110 mm/4.331 lnch
The angled head provides for precise cuts at different working angles.

Model	Cut	Dime	ension	s in m	m/Inch	Max. cutting	capability in	mm/Inch Diameter	
		Α	В	С	D	Piano wire	Hard wire	Medium hardness	Copper wire
503ET		9	11	6.5	19	0.4	0.6	0.8	1.2
	Semi-flush	.354	.433	.256	.748	.015	.023	.031	.047
503ETF		9	11	6.5	20	0.4	0.6	0.8	1.2
000211	Flush	.354	.433	.256	.787	.015	.023	.031	.047

Special applications



A = length of cutting edges

B = head width

C = head thickness

D = head length



Special applications - Special tool steel, ESD-safe

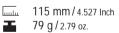


120 mm / 4.724 Inch 100 g / 3.53 oz.

Side cutter with compound action.

Model	Cut	Dimer A	nsions i B (in mm/Inch C	Max. cutting Copper wire	g capability in mm/Inch Diameter
147A	Semi-flush	12 .472	10.5 7	7. 5 295	1.8 .070	For cutting hard wires with minimal effort
147AT	Semi-flush	· -	10.5 7	7.5 295	1.8 .070	Model same as 147A, but with cutting edges made from tungsten carbide, model on request





■ Side cutter, suitable for cutting printed-circuit boards.

Model	Cut		capability in mm/Inch	
		Max. D	Max. B	
884EPCM*		1.5	2.0	B→ ←
	Flush	.059	.078	D

^{*}Not available in North America



Special applications





110 mm / 4.331 Inch 48 g / 1.69 oz.

■ Side cutter, suitable for precision cuts on soft materials, e.g. small silicone tubes in medical applications, precision connector seals, miniature rubber seals, soft synthetic parts.

Model	Cut	Dime	ension	s in mm/Inch			
		Α	В	С			
	•	_	_				
632NCF		9	9	6			
	Super full flush	.354	.354	.236			





115 mm / 4.527 Inch 67 g / 2.36 oz.

Side cutter, suitable for cutting Kevlar® silks.

Model	Dime	ension	s in m	m/Inch
	A	В	С	D
599FO	12	11	6.5	19
			.256	





115 mm / 4.527 Inch 67 g / 2.36 oz.

■ Side cutter with cutting edges made from tungsten carbide.

Model	Cut	Dimension	ns in mm/Inch	
		А В	C D	
599TFO	Semi-flush	12 10.5 .472 .413	5 6.5 19 .256 .748	Model same as 599FO, but with cutting edges made from tungsten carbide. Suitable for cutting Kevlar® silks, Vectran™-sheathed wires, optical fibres and small stainless wires

Pneumatic side cutters and tip cutters

- Pneumatic cutter
- Handy, light and precise
- Extremely versatile thanks to a selection of different cutting heads
- Easily interchangeable cutting heads
- Suitable for cutting conventional components, soft metals or small plastic parts



Pneumatic side cutters and tip cutters

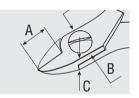




Pneumatic-cutter housing

Model	Dimensions in mr D	m/Inch Diameter
1500 BSF	28 1.102	Requires 4 – 6 bar oil-free clean compressed air

Cutting heads for 1500BSF



A = length of cutting edges

B = head width

C = head thickness

Side cutter - oval head



35 g / 1.16 oz.

- This is the standard head shape.
- It is used for all cutting jobs in easy-to-reach areas.
- The oval head provides for a high cutting capacity and is characterised by its robustness.

Model	Cut	Dimension A B	ns in mm/Inch C	Max. cutting capability in mm/Inch Diameter Copper wire
1512N	Semi-flush	10 10.5 .394 .413	6.5 .256	1.6 .062
1522N	Flush	10 10.5 .394 .413	6.5 .256	1.6 .062

Wire quality, see P. 38



Pneumatic side cutters and tip cutters

Side cutter - tapered head



35 g / 1.16 oz.

■ The edges of the cutter head are straight and taper to a point, allowing access to hard to reach areas.

Model	Cut	Dimensions in mm/Inch A B C	Max. cutting capability in mm/Inch Diameter Copper wire
1522NA	Flush	9 10.5 6.5 .354 .413 .256	1.4 .055

Side cutter - pointed relieved head



32 g / 1.12 oz.

- This is the narrowest head shape.
- The underside is relieved and facilitates optimum access even to extremely hard-to-reach areas.

Model	Cut	Dimensions in mm/I	nch Max. cutting capability in mm/Inch Diameter
		A B C	Copper wire
1522NB		9 10.5 6.5	1.2
	Flush	.354 .413 .256	.047

Tip cutter - angled head



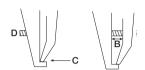
38 g / 1.34 oz.

■ The angled head provides for precise cuts at different working

Model	Cut	Dimensio	ns in mm/Inch	Max. cutting capability in mm/Inch Diameter
		A B	С	Copper wire
1503E		12 10.	5 6.5	1 2
IOUSE	1 1	12 10.	0.0	1.2
	Flush	.472 .413	.256	.047

Distance cutters

- Erem distance cutters are available with fixed and variable cutting lengths
- The tips are polished so as to prevent board damage
- For cutting wires to the right length and for fixing components

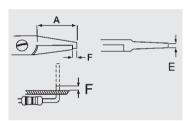


The protective stop screw D improves the performance of Erem distance cutters:

- Clearance B larger than the wire diameter
- cut wire is ejected.Clearance B smaller than the wire diameter
 - = cut wire is held.

Adjust protective stop screw D so that cutting edge C does not hit the opposite side. This increases the lifetime of the cutting edge.





A = jaw length E = width of tips F = cutting length

Fixed cutting length (F)



____ 12 **___** 67

120 mm / 4.724 Inch 67 g / 2.36 oz.

- Special tool steel
- ESD-safe
- Fixed cutting length (= F)
- Reduces mechanical shock on components

Model	Cut	Dimensions in mm/Inch A E F	Max. cutting capability in mm/Inch Diameter Copper wire
530E06**	Flush	20 3 0.6 .787 .118 .023	1.2 Cuts copper wire to a length of 0.6 mm/.023 lnch
530E08	Flush	20 3 0.8 .787 .118 .031	1.2 Cuts copper wire to a length of 0.8 mm/.031 lnch
530E10	Flush	20 3 1.0 .787 .118 .039	1.2 Cuts copper wire to a length of 1.0 mm/.039 lnch
530E12*	Flush	20 3 1.2 .787 .118 .047	1.2 Cuts copper wire to a length of 1.2 mm/.047 lnch
530E13*	Flush	20 3 1.3 .787 .118 .051	1.2 Cuts copper wire to a length of 1.3 mm/.051 lnch
530E15	Flush	20 3 1.5 .787 .118 .059	1.2 Cuts copper wire to a length of 1.5 mm/.059 lnch

Wire quality, see P. 38

^{*}Not available in North America

^{**}Order as 539E060 in North America



Distance cutters

Model	Cut		ns in mm/Inch F	Max. cutting Copper wire	capability in mm/Inch Diameter
530E18*	Flush	20 3 .787 .118	1.8 .070	1.2 .047	Cuts copper wire to a length of 1.8 mm/.070 lnch
530E20*	Flush	20 3 .787 .118	2.0	1.2 .047	Cuts copper wire to a length of 2.0 mm/.078 lnch





120 mm / 4.724 lnch 67 g / 2.36 oz.

- Special tool steel
- ESD-safe
- Fixed length distance cutter
- Tapered 45°

Model	Cut	Dimensio A E	ns in mm/Inch F	Max. cutting Copper wire	capability in mm/Inch Diameter
549E	Flush	20 3 .787 .118	1.5 .059	1.2 .047	Cuts wire to a length of 1.5 mm/.059 Inch
549E10*	Flush	20 3 .787 .118	1.0	1.2 .047	Cuts wire to a length of 1.0 mm/.039 Inch
549E12*	Flush	20 3 .787 .118	1.2 .047	1.2 .047	Cuts wire to a length of 1.2 mm/.047 Inch

Variable cutting length (V)





120 mm / 4.724 lnch 70 g / 2.47 oz.



- Special tool steel
- ESD-safe
- Variable cutting length (= V)
- With protective stop screw

Model	Cut	Dimensions in mm/Inch A E V	Max. cutting capability in mm/Inch Diameter Copper wire
530E15A*	Flush	20 4.5 1.2 – 6 .787 .177 .047 – .236	1.2 Variable cutting length from 1.2 mm to 6 mm/ .047 .047 to .236 lnch





115 mm / 4.527 lnch 70 g / 2.47 oz.



- Special tool steel
- ESD-safe
- Variable cutting length (= V)
- With protective stop screw
- Interchangeable plastic stop protects the printed-circuit board against damage

Model	Cut	Dimensions in mm/In A E V	nch Max. cutting capability in mm/Inch Diameter Copper wire
573EB	Flush	20 4.5 0 – 5 .787 .177 0 – .197	0.8 Variable cutting length from 0 mm to 5 mm/ .031 0 to .197 Inch

^{*}Not available in North America