

Precision tweezers: Pointed tips straight

110 mm/4.331 Inch



Model		Description
3CS	11 g 0.39 oz.	Precision tweezers with long tips for precision work on printed-circuit boards.
3CSA	11 g 0.39 oz.	Precision tweezers, standard model for delicate work.
3CSASL	11 g 0.39 oz.	Same as 3CSA, but economy model.
ЗСТА	8 g 0.28 oz.	Model same as 3CSA, but made from titanium: non-magnetic, very heat-resistant and very light.
53CSA	11 g	Precision tweezers with anti-crush feature. Prevents damage to sensitive components. Tweezers

relieved at front for secure handling.

Precision tweezers with pointed tips for work in

Description

microelectronics.



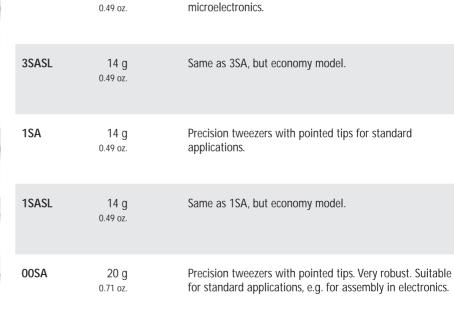
120 mm/4.724 Inch



Model

14 g

3SA

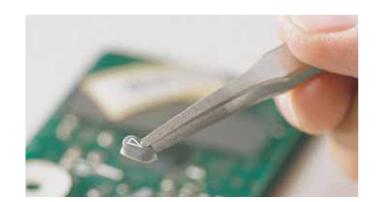


Tweezers

Precision tweezers: Flat round tips straight



- Suitable for all standard gripping applications and assembly jobs on printed-circuit boards, e.g. in the goldsmith and jewelry industries
- For all models with the suffix SA or SASL in the order number: Special stainless steel, nonmagnetic, non-rusting, acid-proof, heat-resistant



120 mm/4.724 Inch



Model	-	Description
2ASA	15 g 0.53 oz.	Precision tweezers with flat rounded tips for gripping small components. Tip width 2 mm/.078 lnch.
2ASASL	15 g 0.53 oz.	Same as 2ASA, but economy model.
2ASASLT*	16 g 0.56 oz.	Same as 2ASA, but with Teflon®-coated tips for non-stick holding of self-adhesive parts.
2ASARU	16 g 0.56 oz.	Same as 2ASA, but with coated tips for non-stick holding of self-adhesive parts.
25SA	15 g 0.53 oz.	Precision tweezers with flat, round tips slightly wider than the 2ASARU model. Serrated finger grips for secure handling. For standard gripping jobs.
52ASA	15 g 0.53 oz.	Precision tweezers with pointed, rounded and flexibly movable tips. Prevents damage to sensitive components.

^{*}Not available in North America

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)
	V· ··/		, (· · · · ,
Series 500 Medium	570E , 573E **(P. 55)	592E , 792E (P. 54)	555E, 572E, 582E (P. 53),
Series 800 Maxi		884E (P. 58)	575E , 593AE (P. 54)
Series 600 Maxi		604L (F. 50)	



^{**} Straight head for vertical working



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.

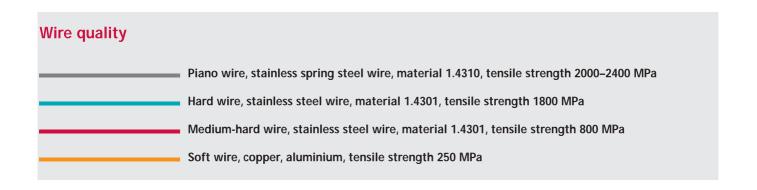


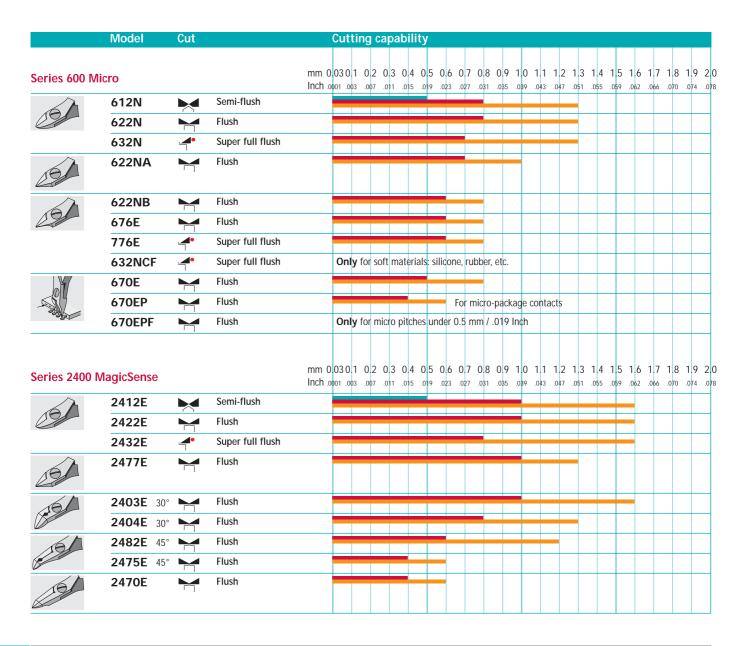
Tip cutter Angled wide head	Side cutter Tapered head	Side cutter Oval head	
Angled wide flead	Tapered flead	Oval flead	High cutting capacity
The angled head provides for precise cuts at different working angles.	The jaws of the cutter have straight edges and taper to a point. This head shape allows access 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)	
2402F 2404F (D 40)	2477F (D 40)	2412F 2422F 2422F (D 47\	
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	
	00/F (D F0)	(P. 51)	
	886E (P. 58)	812N , 822N , 896E (P. 57)	

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

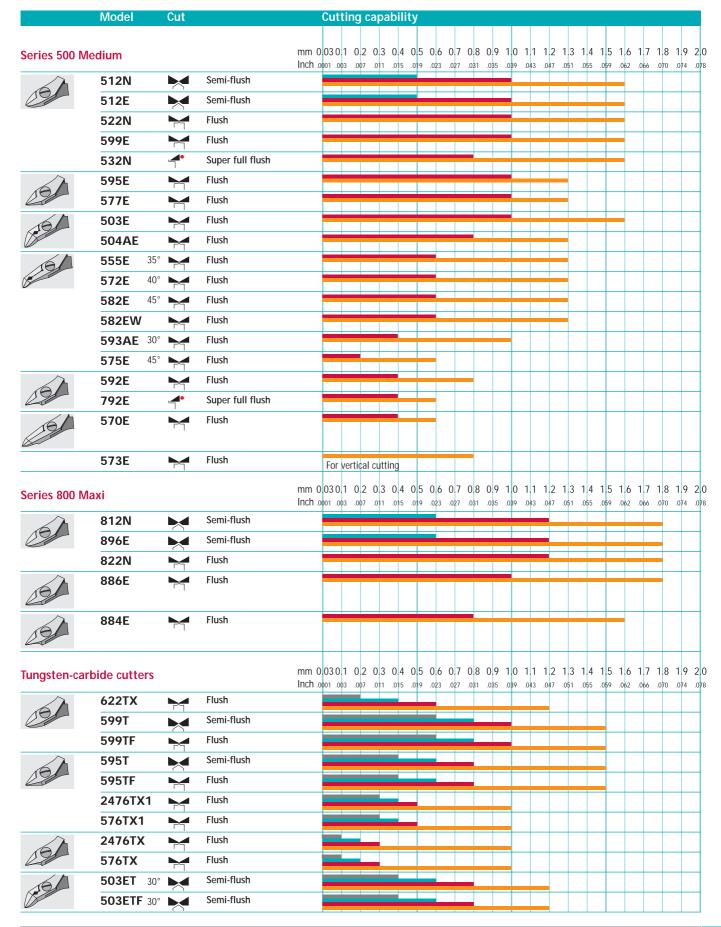
Choosing the right tool

Cutting capacity









Side Cutters and Tip Cutters

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



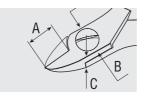


130 mm/5.118 lnch 130 g / 4.59 oz.

Pneumatic-cutter housing

Model	Dimensions in mm/Inch Dial	meter
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	Dimensio A B	ns in mm/Inch C	Max. cutting capability in mm/Inch Diameter Copper wire
1512N	Semi-flush	10 10.! .394 .413	5 6.5 .256	1.6 .062
1522N	Flush	10 10.5 .394 .413	5 6.5 .256	1.6 .062

Wire quality, see P. 38

Side Cutters and Tip Cutters



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	Dimension	s in mm/Inch	Max. cutting capability in mm/Inch Diameter
		A B	С	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 angles.

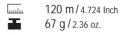
Model	Cut	Dimensions in mm/Inch	Max. cutting capability in mm/Inch Diameter
		A B C	Copper wire
1503E	Flush	12 10.5 6.5 .472 .413 .256	1.2 .047



Erem pliers

Flat nose pliers





- Flat nose pliers with smooth jaws and precisionmachined edges.
- Suitable for gripping flat workpieces.

Model	Dime	Dimensions in mm/Inch					
		Α	В	С	E	G	
542E*	=	23	9	6.5	2.4	1.4	
	_	.905	.354	.256	.094	.055	

^{*}Order as 542 in North America



125 m / 4.921 Inch 67 g / 2.36 oz.

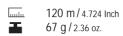
- Flat nose pliers with replaceable nylon jaws.
- Nylon jaws prevent nicking and scratching.
- Suitable for forming precious metals and component connections.

Model Shape		Dime	Dimensions in mm/Inch				
		Α	В	С	E	G	
531E*	=	23	9	6.5	5	3	
		.905	.354	.256	.197	.118	

^{*}Order as 531 in North America

Chain nose pliers





- Chain nose pliers with narrow half-round jaws.
- For securely handling components.

Model	Dime	nsions	in mm/I	nch					
		Α	В	С	E	G			
544E*		23	9	6.5	1	1.4			
		.905	.354	.256	.039	.055			

^{*}Order as 544 in North America



125 mm / 4.921 Inch 67 g / 2.36 oz.

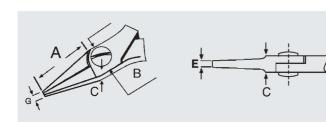
Model	Shape	Dimer	Dimensions in mm/Inch							
		Α	В	С	E	G				
544D		23	9	6.5	1	1.4	Inside-serrated jaws for secure handling			
		.905	.354	.256	.039	.055				

Pliers

Series 2400 MagicSense pliers

- Pliers for miniature and standard electronics
- Optimized ergonomically shaped handles for increased comfort
- Special tool steel, non-reflecting surface, ESD-safe





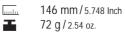
A = jaw length B = head width C = head thickness

E = width of tips

G = total height of both tips

Needle nose pliers





■ Needle nose pliers with very precise, smooth and rounded jaws.

Model	Shape	Dimensions in mm/Inch							
		Α	В	С	E	G			
2411P	•	33.5 1.319	11 .433	6 .236	1.039	1.2 .047			
2411PD	•	35.5 1.319	11 .433	6 .236	1 .039	1.2 .047	Model same as 2411P, but with inside-serrated jaws for secure handling		



Series 2400 MagicSense pliers

Flat nose pliers





146 mm/5.748 Inch 72 g/2.54 oz.

- Flat nose pliers with smooth jaws and precisionmachined edges.
- Suitable for gripping flat workpieces.

Model	Shape	Dimensions in mm/Inch					
		Α	В	С	E	G	
2442P	-	33.5	11	6	3.4	1.2	
	_ _	1.319	.433	.236	.139	.047	

Round nose pliers





146 mm / 5.748 Inch 72 g / 2.54 oz.

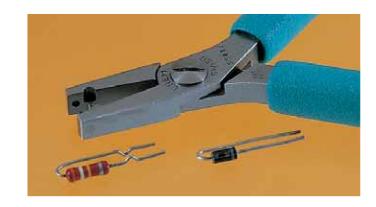
- Round nose pliers with very precise, smooth jaws.
- Suitable for bending wires.

Model	Shape	Dimens	Dimensions in mm/Inch						
		Α	В	С	Εø	G			
2443P	•	33.5 1.319	11 .433	6 .236	0.8	1.6 .062			

Forming pliers

Forming pliers for passive components

- Safe bending, forming and preparation of component connections
- High grade tool steel
- Non-reflecting surface
- ESD-safe



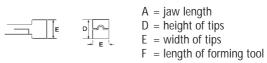




120 mm / 4.724 Inch 70 g / 2.47 oz.

■ Suitable for component connections, U-shape.







Model		Dime	nsions i	in mm/l	nch	Max. connect	Max. connection diameter		
		Α	D	E	F	Diodes	Capacitors	Resistors	
554E*	-3 mm .118 lnch R = 2 mm .078 lnch	13 .512	10 .394	10 .394	10 .394	0.65 mm .025 lnch	0.7 mm .027 lnch	1/ ₂ W	

^{*}Order as 554 in North America





120 mm / 4.724 Inch 70 g / 2.47 oz.

- Suitable for component connections, U-shape, axial forming.
- Narrow head shape.







A = jaw length D = height of tips

E = width of tips

F = length of forming tool

Model		Dimensions in mm/Inch				Max. connect	Max. connection diameter		
		Α	D	E	F	Diodes	Capacitors	Resistors	
554 A	4 mm max. .157 lnch R = 1.5 mm .059 lnch	23 .905	5.6 .220	2.5	4.5 .177	0.65 mm .025 lnch	0.7 mm .027 lnch	¹ / ₂ W	

IC and SMD tools

IC and SMD tools

- IC and SMD tools for inserting, extracting, straightening and cutting IC and SMD components
- Non-reflecting surface
- ESD-safe



Inserting and extracting



120 mm/4.724 Inch

One screwdriver included for fine adjustments.

Model			Model	Dimensions i E	in mm/Inch	505C	505BGC	505BG
505C			505C	20 .787		14-16		28
	↓		505BGC	36 1.417		.300		
	E O	Many Many	505BG	36 1.417			.300	.600

Straightening





- Practical straightening tool, suitable for straightening contacts, DIL/IC connections.
- Up to 16 connections possible.

Model		Dimensions i	n mm/Inch	
		А	Ł	G
808G	Г	23 .905	42 1.653	1 .039