



High-Precision Tools for Medical Device Manufacturing



weller-tools.com

Weller[®]
Erem[®]

Side cutters and tip cutters

FOR CRITICAL APPLICATIONS

For further information please see:
<https://www.weller-tools.com/professional/USA/us/Home/Erem>

Built-in Weller-Erem Magic Spring

The Magic Spring system used in Weller-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.

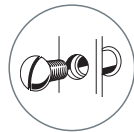
- Reduce costs thanks to long life
- Constant spring force
- Guarantees more than 1 million operations



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 Weller-Erem cutters are hardened to Rockwell 63-65 HRC by an induction-heating process.

- High durability, thanks to special material selection



Special tool steel

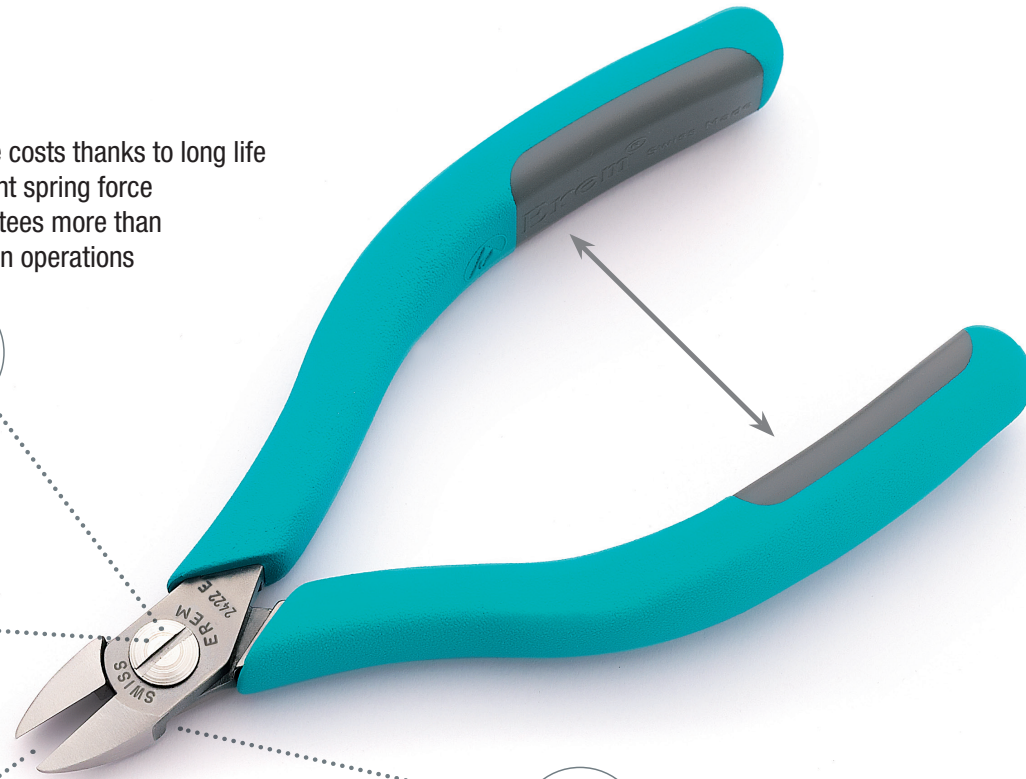
Weller-Erem electronics tools are made from bright steel. The special tool steel is made using a unique Swiss processing technique.

- 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 Weller-Erem cutters and pliers.



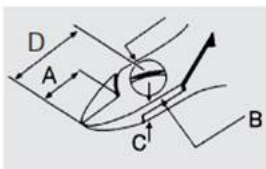
Weller-Erem cutting-edge protection for tip cutters

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

CUTTERS

Model	Cut	Description	Key Applications	Dimensions				Dental/ Ortho	Cardio- vascular*	Typical Medical	Tungsten- Carbide Steel
				A	B	C	D				
503ETST	 Flush	<ul style="list-style-type: none"> Tip cutter - angled wide head 	Guide Wires, Stents, Catheters, Single/Multiple Fillers, Lateral/Internal Cuts	0.354 in	0.433 in	0.236 in	0.748 in		✓		✓
				9 mm	11 mm	6 mm	19 mm				
576TX	 Flush	<ul style="list-style-type: none"> Tip cutter -pointed relieved head The underside is relieved and facilitates optimum access even to extremely hard-to-reach areas. The narrowest head shape. 	Guide Wires, Stents, Catheters, Single/Multiple Fillers, Lateral/Internal Cuts	0.433 in	0.433 in	0.236 in	0.748 in		✓		✓
				11 mm	11 mm	6 mm	19 mm				
576TX-1	 Flush	<ul style="list-style-type: none"> Side cutter - tapered head Jaws have straight edges and taper to a point Head shape allows access to difficult to reach areas but reduces the cutting capacity in comparison to the same size oval head cutter 	Guide Wires, Stents, Catheters, Single/Multiple Fillers, Lateral/Internal Cuts	0.433 in	0.433 in	0.236 in	0.011 in		✓		✓
				11 mm	11 mm	6 mm	19 mm				
595T	 Semi-Flush	<ul style="list-style-type: none"> 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. 	Hard Wire - Stainless Steel 303-316, MP35N, Stents	0.472 in	0.433 in	0.236 in	0.748 in		✓		✓
				12 mm	11 mm	6 mm	19 mm				
599TF	 Flush	<ul style="list-style-type: none"> Side cutter - oval head Fits all cutting applications where easy access is given 		0.472 in	0.433 in	0.236 in	0.748 in		✓		✓
				12 mm	11 mm	6 mm	19 mm				
599TFO	 Semi-Flush	<ul style="list-style-type: none"> Side cutter High precision for optical fibres Ideal for Kevlar® silks, Vectran™ sheathed wires, optical fibres and small stainless wires. 	Stainless Steel Coil Wires, Kevlar®, Vectran™ Braided Wires, Fiber Optics	0.472 in	0.43 in	0.24 in	0.748 in		✓		✓
				12 mm	11 mm	6 mm	19 mm				
E147A	 Semi-Flush	<ul style="list-style-type: none"> Side cutter with compound action For cutting hard wires with minimal effort 	Guide Wires, Stents, Catheters, Single/Multiple Fillers, Lateral/Internal Cuts	0.472 in	0.413 in	0.284 in	-	✓	✓	✓	
				12 mm	10.5 mm	7.2 mm	-				
T622N	 Flush	<ul style="list-style-type: none"> Side cutter – oval head Fits all cutting applications where easy access is given 	Guide Wires, Stents, Catheters, Single/Multiple Fillers, Lateral/Internal Cuts	0.354 in	0.354 in	0.236 in	0.590 in		✓	✓	✓
				9 mm	9 mm	6 mm	15 mm				

* Includes production of catheters, stents, pace makers, etc.








A = length of cutting edges
B = head width
C = head thickness
D = head length

For further information please see:
<https://www.weller-tools.com/professional/USA/us/Weller+Erem/Cutters>

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CUTTERS

Model	Cut	Description	Key Applications	Dimensions				Dental/ Ortho	Cardio-vascular*	Typical Medical	Tungsten- Carbide Steel
				A	B	C	D				
622NB 2622NB	 Flush	<ul style="list-style-type: none"> Side cutter - pointed relieved head Facilitates optimum access to extremely hard-to-reach areas 		0.354 in	0.39 in	0.236 in	0.65 in				✓
				9 mm	9.8 mm	6 mm	16 mm				
632NCF	 Super Full Flush	<ul style="list-style-type: none"> Tip cutter - straight short relieved head High precision for optical fibres Suitable for precision cuts of soft materials (e.g. small silicone tubes precision connector seals, miniature rubber seals, soft synthetic parts) High-precision working on SMD and micro-package contacts 	Soft materials only. Perfect for trimming silicone material, miniature rubber seals or soft synthetic parts	0.354 in	0.354 in	0.236 in	0.590 in		✓	✓	
				9 mm	9 mm	6 mm	15 mm				
2476TX1	 Semi-Flush	<ul style="list-style-type: none"> Side cutter - tapered relieved head Series 2400 MagicSense model 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 	Stainless Steel or Nickel Titanium Wires, Catheters, Coiled Wires	0.433 in	0.433 in	0.236 in	0.011 in		✓	✓	✓
				11 mm	11 mm	6 mm	19 mm				
792E	 Super Full Flush	<ul style="list-style-type: none"> Side cutter - pointed relieved head The underside is relieved and facilitates optimum access even in extremely hard-to-reach areas This is the narrowest head shape 	Micro electronics	0.472 in	0.433 in	0.236 in	0.748 in			✓	
				12 mm	11 mm	6 mm	19 mm				
2422E	 Flush	<ul style="list-style-type: none"> Side cutter - oval head Robust and size for size offers the highest cutting capacity This is the most widely used head shape 	Micro electronics	0.472 in	0.433 in	0.236 in	0.748 in			✓	
				12 mm	11 mm	6 mm	19 mm				

* Includes production of catheters, stents, pace makers, etc.

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PLIERS

Model	Cut	Description	Key Applications	Dimensions					DIMENSION DIAGRAM
				A	B	C	E	G	
552S	Wire Stripper	<ul style="list-style-type: none"> Suitable for all types of insulation, Teflon®, Tefzel and optical fibres. Unique precision for damage-free stripping of fine wires. Interchangeable blades Unlimited stripping length thanks to side stripping The required diameter is set by means of screws Non-reflecting surface Screwdriver and key are included Robust, high-precision tools for use in electronics and aeronautical engineering 	All Types of Insulation, Teflon, Tefzel and optical fibres.	0.82 in	0.24 in	0.24 in	0.43 in	0.354 in	<p>A = Jaw length B = Width of tips C = Depth of interchangeable blade E = Total height of both tips G = Length of cutting blade</p>
				21 mm	6 mm	6 mm	11 mm	9 mm	
2411PD	Needle nose	<ul style="list-style-type: none"> Needle nose pliers with very precise and rounded jaws Non-reflecting surface, ESD-safe 	For miniature and standard electronics.	1.32 in	0.43 in	0.24 in	0.039 in	0.047 in	<p>A = Jaw length B = Head width C = head thickness E = Width of tips G = Total height of both tips</p>
				33.5 mm	11 mm	6 mm	1 mm	1.2 mm	
531E	Tapered	<ul style="list-style-type: none"> Flat nose pliers with replaceable nylon jaws Non-reflecting surface, ESD-safe, high grade tool steel Nylon jaws prevent nicking and scratching 	Forming and handling components while preventing scratching and nicking for miniature and standard electronics.	0.91 in	0.43 in	0.24 in	0.2 in	0.12 in	<p>A = Jaw length B = Head width C = head thickness E = Width of tips G = Total height of both tips</p>
				23 mm	11 mm	6 mm	5 mm	3 mm	

For further information please see:

<https://www.weller-tools.com/professional/USA/us/Weller+Erem/Pliers>

Internal patented Weller-Erem Magic Spring

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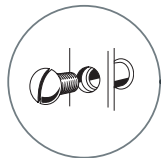
- Reduce costs thanks to long life
- Constant spring force
- Guarantees more than 1 million operations



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
- No damaging of sensitive components



Precision-ground jaws

The very precisely worked tips get a firm and sure grip on even the thinnest of parts.

The choice of high-quality materials and meticulous tempering are especially important during the manufacturing of these tweezers.

- Ground with the greatest precision

Special tool steel

Weller-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 Weller-Erem cutters and pliers.

Ergonomically shaped handles

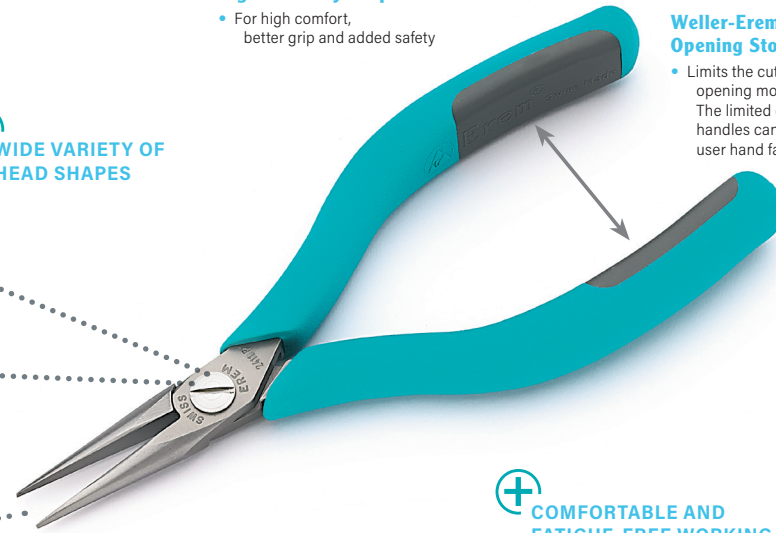
- For high comfort, better grip and added safety

Weller-Erem - 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.

WIDE VARIETY OF HEAD SHAPES








COMFORTABLE AND FATIGUE-FREE WORKING.



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TWEEZERS

Model		Shape	Description	Key Applications	Length	Weight	Dental/ Ortho	Various Medical	Material	Head Size
2ASARU		Straight/ Round	<ul style="list-style-type: none"> Precision tweezers with flat rounded tips for gripping components Coated tips for non-stick holding of self-adhesive parts Titanium stainless steel, nonmagnetic, non-rusting, acid-proof, heat-resistant 	For handling sticky adhesive labels and ribbons.	4.724 in	0.53 oz		✓	SS w/ Teflon Coated Tips	N/A
					120 mm	16 g				
5FSA, 5MBS		Straight Pointed	<ul style="list-style-type: none"> Precision tweezers with extremely pointed tips for use in dissection procedures and working under a microscope Relieved shape facilitates excellent access to the most confined spaces Stainless steel, robust tips, non-rusting, non-reflecting surface 	For use on soft materials.	4.528 in	0.42 oz		✓	Stainless Steel	
					115 mm	12 g				
15AGS		Narrow Oblique Head	<ul style="list-style-type: none"> Cutting tweezers with narrow oblique head Hardened cutting edges for long service life Suitable for cutting fine, soft wires and small components 	Designed for cutting fine soft wires up to dia. 0.25 mm/.010 in. and small components.	4.528 in	0.74 oz		✓	Carbon Steel	.216 narrowed to a pt
					115 mm	21 g				
29Y Series			<ul style="list-style-type: none"> Non-reflecting surface 	Suitable for stripping fine wires with PVC or Teflon® insulation.	4.724 in	0.78 oz		✓	Stainless & Carbon	
					120 mm	22 g				
940AS		Ring-Shaped	<ul style="list-style-type: none"> Gripping tweezers with locking mechanism The ring-shaped tip provides for secure handling up to a tensile force of 5 kg Suitable as a ligature clamp in dentistry Can be disinfected and sterilized Gripping tweezers enable the user to hold and manipulate particularly fine wires with a diameter from 0.3 mm/.011 Inch or insulated optical fibres with a diameter of between 1.5 mm/.059 Inch and 5 mm/.197 Inch 		4.724 in	0.60 oz	✓	✓	Stainless Steel	
					120 mm	17 g				
7SA		Curved	<ul style="list-style-type: none"> Precision tweezers, curved, relieved, with pointed tips Bent shape facilitates access to confined spaces Special stainless steel, nonmagnetic, non-rusting, acid-proof, heat-resistant 	For applications in biology, medicine, laboratory technology and microelectronics	4.724 in	0.53 oz		✓	Stainless	Very Fine
					120 mm	15 g				
5SA		Straight	<ul style="list-style-type: none"> Precision tweezers with very pointed tips, suitable for very fine wires Relieved shape facilitates excellent access to the most confined spaces Special stainless steel, non-magnetic, non-rusting, acid-proof, heat-resistant For precision work e.g. under a microscope 	Micro electronics	4.528 in	0.42 oz		✓	Stainless Antiacid	Very Fine
					115 mm	12 g				
258SA		Straight	<ul style="list-style-type: none"> Precision tweezers with pointed synthetic tips (PPS) and serrated finger grips for secure handling Relieved shape facilitates excellent access to the most confined spaces Special stainless steel, non-magnetic, non-rusting, acid-proof, heat-resistant For precision work e.g. under a microscope 	Secure handling of components up to 480F and resistant to acid and molten solder - water resistant.	4.724 in	0.53 oz		✓	Stainless Anti-acid w/ pointed synthetic tips	Fine Point
					120 mm	15 g				

For Tweezers information, please see
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TWEEZERS

Model		Shape	Description	Key Applications	Length	Weight	Dental/ Ortho	Various Medical	Material	Head Size
249SA		Straight	<ul style="list-style-type: none"> Precision tweezers with pointed synthetic tips (PPS) and serrated finger grips for secure handling Non-reflecting surface Suitable for delicate standard applications and precision work on small components or wires Special stainless steel, non-magnetic, non-rusting, acid-proof, heat-resistant 	Microelectronics, medicine and laboratory technology. Secure handling of components up to 480F and resistant to acid and molten solder - water resistant.	5.118 in	0.71 oz		✓	Anti-Magnetic	Blunt
					130 mm	20 g				
M5S		Straight	<ul style="list-style-type: none"> Micro-tweezers, very pointed tips, e.g. for precision work under a microscope Suitable for delicate standard applications and precision work on small components or wires Stainless steel, robust tips, non-rusting, non-reflecting surface 	Microelectronics, medicine and laboratory technology. For precision electronic application work under a microscope	3.150 in	0.21 oz		✓	Stainless Steel	Very Fine
					80 mm	6 g				
3CSA		Straight	<ul style="list-style-type: none"> Precision tweezers, standard model for delicate work Suitable for delicate standard applications and precision work on small components or wires Special stainless steel, non-magnetic, non-rusting, acid-proof, heat-resistant 	General purpose use in microelectronics, medical and laboratories	4.331 in	0.39 oz		✓	Anti-Magnetic	
					110 mm	11 g				
1SA		Straight	<ul style="list-style-type: none"> Suitable for delicate standard applications and precision work on small components or wires Special stainless steel, non-magnetic, non-rusting, acid-proof, heat-resistant 	General purpose use in microelectronics, medical and laboratories	4.724 in	0.49 oz		✓	Stainless Steel	Fine Point
					120 mm	14 g				
2ASA		Straight	<ul style="list-style-type: none"> Precision tweezers with flat rounded tips for gripping components. Special stainless steel, nonmagnetic, non-rusting, acid-proof, heat-resistant Suitable for all standard gripping applications and assembly jobs on printed-circuit boards 	General purpose use in microelectronics, medical and laboratories	4.724 in	0.53 oz		✓	Stainless Steel	Flat Round
					120 mm	15 g				
3CSA		Straight	<ul style="list-style-type: none"> Suitable for delicate standard applications and precision work on small components or wires Special stainless steel, non-magnetic, non-rusting, acid-proof, heat-resistant 	General purpose use in microelectronics, medical and laboratories and delicate work.	4.331 in	0.39 oz		✓	Stainless Steel	Fine Point
					110 mm	11 g				
3SA		Straight	<ul style="list-style-type: none"> Suitable for delicate standard applications and precision work on small components or wires Special stainless steel, non-magnetic, non-rusting, acid-proof, heat-resistant 	General purpose use in microelectronics, medical and laboratories	4.724 in	0.49 oz		✓	Stainless Steel	Fine Point
					120 mm	14 g				
5SA		Straight	<ul style="list-style-type: none"> Precision tweezers with very pointed tips, suitable for very fine wires. Relieved shape facilitates excellent access to the most confined spaces Special stainless steel, non-magnetic, non-rusting, acid-proof, heat-resistant For precision work e.g. under a microscope 	For precision application work under a microscope	4.528 in	0.42 oz		✓	Stainless Steel	Fine Point
					115 mm	12 g				

For Tweezers information, please see
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TWEEZERS

Model		Shape	Description	Key Applications	Length	Weight	Dental/ Ortho	Various Medical	Material	Head Size
5ASA		Bent	<ul style="list-style-type: none"> Precision tweezers, lightly curved 15°, relieved. Very pointed tips, e.g. for installing small components Bent shape facilitates access to confined spaces Special stainless steel, nonmagnetic, non-rusting, acid-proof, heat-resistant 	For applications in biology, medicine, laboratory technology and microelectronics	4.528 in	0.42 oz		✓	Stainless Steel	Fine Point
					115 mm	12 g				
7SA		Bent	<ul style="list-style-type: none"> Precision tweezers, curved, relieved, with pointed tips. Excellent handling in confined spaces Bent shape facilitates access to confined spaces Special stainless steel, nonmagnetic, non-rusting, acid-proof, heat-resistant 	For applications in biology, medicine, laboratory technology and microelectronics	4.724 in	0.53 oz		✓	Stainless Steel	Fine Point
					120 mm	15 g				
AASA		Straight	<ul style="list-style-type: none"> Suitable for delicate standard applications and precision work on small components or wires Special stainless steel, non-magnetic, non-rusting, acid-proof, heat-resistant 	General purpose use in microelectronics, medical and laboratories	4.921 in	0.56 oz		✓	Stainless Steel	Fine Point
					125 mm	16 g				
OOSA		Straight	<ul style="list-style-type: none"> Precision tweezers with pointed tips. Very robust. Suitable for standard applications, e.g. for assembly in electronics Special stainless steel, non-magnetic, non-rusting, acid-proof, heat-resistant 	General purpose use in microelectronics, medical and laboratories Suitable for delicate standard applications and precision work on small components or wires	4.724 in	0.71 oz		✓	Stainless Steel	Fine Point
					120 mm	20 g				
OODSA		Straight	<ul style="list-style-type: none"> Model same as OOSA, but with serrated finger grips and inside-serrated tips for secure handling 	General purpose use in microelectronics, medical and laboratories Suitable for delicate standard applications and precision work on small components or wires	4.724 in	0.71 oz		✓	Stainless Steel	Fine Point
					120 mm	20 g				
15AGW		Cutting	<ul style="list-style-type: none"> Cutting tweezers with narrow oblique head. For soft wires up to dia. 0.25 mm/0.010 Inch. Delivers high-precision cuts Hardened cutting edges for long service life 	Suitable for cutting fine, soft wires and small components	4.528 in	0.92 oz		✓	Carbon Steel	Narrow Oblique
					115 mm	26 g				
4ASA		Straight	<ul style="list-style-type: none"> Relieved shape facilitates excellent access to the most confined spaces Special stainless steel, non-magnetic, non-rusting, acid-proof, heat-resistant 	For precision application work under a microscope	4.331 in	0.45 oz		✓	Stainless Steel	Very Fine
					110 mm	13 g				

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