

# FEEL THE DIFFERENCE

THE PROVEN CHOICE. EVERY TIME.



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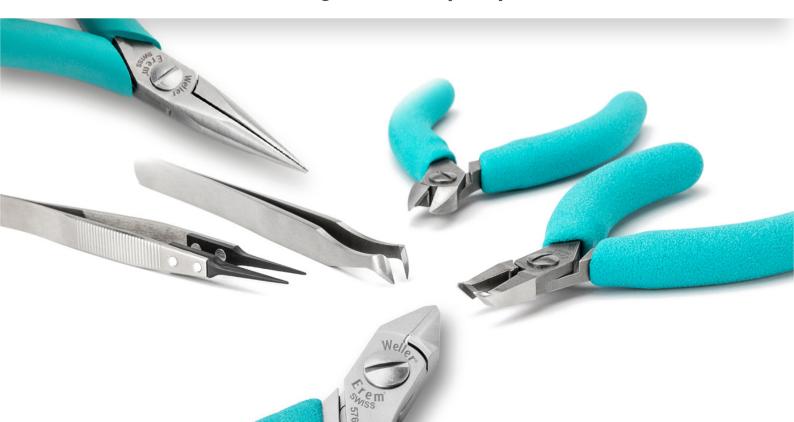
Manufactured with uncompromising Swiss quality, and created especially for electronics applications, Weller Erem® tools are built to last. The signature high-performance cutters set the industry standard by providing over 1 million consistent precise and accurate movements.

With state-of-the-art advanced features like Magic Spring<sup>™</sup>, High-Precision Screw Joint, and Maximum Opening Stop Technology, Weller Erem Precision Tools provide the longest durability, highest precision and best quality on the planet.





Weller Erem products are made and manufactured with uncompromising Swiss quality, created to be strong, durable, sharp and precise



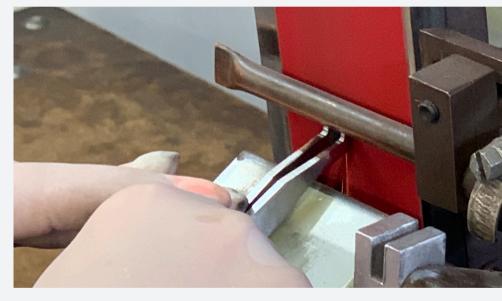


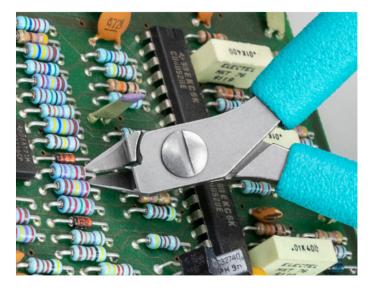
Weller Erem is a leader in the development and production of high-precision, top-quality precision tools (side and tip cutters, pliers and tweezers). Founded in Geneva, Switzerland in 1963, Weller Erem precision tools are the result of ongoing product development and innovation to meet customer demands and the requirements of modern manufacturing techniques.

## **Custom-made**

Have a problem? We have the solution with our ability to quickly manufacture the custom tool you need.

With an estimated 2-week turnaround time, Weller Erem will customize any of our precision tools to meet your applications needs.





# **Cutters for electronics applications**

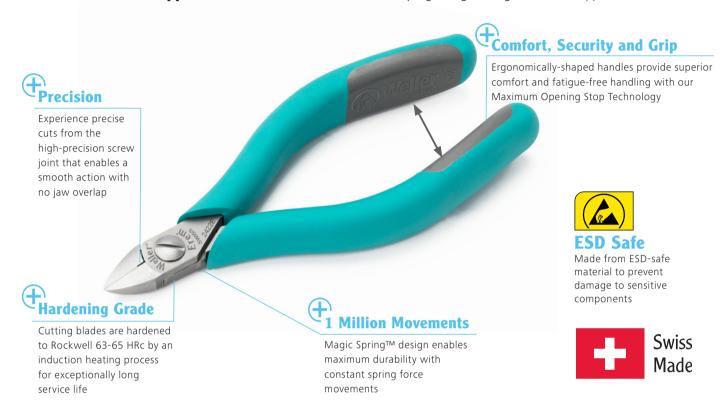
A simple method to remove SMD ICs is to cut each of the individual leads to remove the device and then reflow the joint with a soldering iron and remove the component lead from the board.

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.

## THE PERFECT CUT

Strong, sharp and precise - every time

**Cutter Electronics Applications:** Remove Fine Pitch SMD ICs | Light engineering and Dental Applications



### **Cut shape**

### Three blade options, including Weller Erem's exclusive Super Full Flush cut.



#### Semi-flush

- Leaves a pyramidal tip at the end of the wire
- For standard jobs where the final shape does not play a significant role
- For both soft copper wires and very hard wires, such as stainless steel



#### Flush

- Leaves a much smaller tip at the end of the wire when compared to a Semi-Flush cut – without reducing the cutting ability
- The cutting edges are finer than on semi-flush cutters
- 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



## THE PERFECT COMBINATION

Precision, design, symmetry and balance

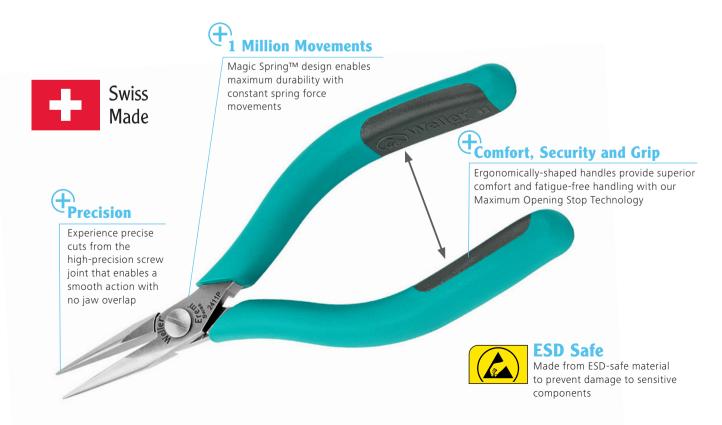
**Tweezer Electronics Applications:** Microelectronics, Jewelrymaking and Watchmaking Applications



## **BUILT TO LAST**

Longest lasting durability on the planet

**Pliers Electronics Applications:** For Miniature and standard electronics | Forming, Bending, Laying and Feeding in Wires



CUTTERS		Key	Dimensions				-ics		de	obe	ize	
Model	Cut	Description	Applications	A (in / mm)	B (in / mm)	C (in / mm)	D (in / mm)	Micro- Electronics	SMD	Carbide	Microscope	Head Size
TOP SELLER		Tip cutter – pointed relieved head This is the narrowest head shape The underside is relieved and facilitates This process were but the make the	General - for all cutting appliations with	0.354	0.354	0.236	0.630	$\checkmark$	<b>\</b>		<b>\</b>	SMALL
Weige French	Full Flush	optimum access even to extremely hard-to-reach areas.	easy access	9	9	6	16	Ÿ	*		*	
886E Wells		Side cutter - tapered head     Jaws have straight edges and taper to a point. Head shape allows access to difficult-	Hard and tough components		0.531	0.284	0.827		<b>/</b>			MAXI
Novem Suss	Full Flush	to-reach areas in comparison to the same size oval head cutter	Sompononia		13.5	7.2	21	*	•			
2622NB		Side cutter – pointed relieved head     This is the narrowest head shape     The underside is relieved and facilitates	Micro & Stan- dard electronics	0.236	0.354	0.236	0.630	$\sqrt{}$				SMALL
Weller	Full Flush	optimum access even to extremely hard-to-reach areas	44.4 0.004.011100	6	9	6	16	•	*			S
539EREC		Distance cutter with patented receptacle     Prevents residual wire contamination  Micro & Standard electronics	Standard	0.472	0.433	0.236	0.728	$\sqrt{}$	<b>/</b>			MEDIUM
	Full Flush		electronics, PCB	12	11	6	18.5	, ·				M
580E15A		Distance cutter, variable cutting length from 1.2 mm to 6 mm/ 047 to .236 Inch     Special tool steel, ESD-safe, Variable cutting length (= V)     Protective stop screw	Micro electronics, PCB, SMD, for cutting wires to the right length and for fixing components	4.921	0.433	0.236	1.142	<b>\</b>				MED
1	Full Flush			125	11	6	29		*		*	
TOP SELLER 522N		Side cutter - oval head     This is the most widely used head shape     Fits for all cutting applications where easy	General - for all cutting appliation with easy access	0.472	0.433	0.236	0.748	<b>/</b>	1			MEDIUM
1	Full Flush	access is given • It is robust and offers the highest cutting capacity		12	11	6	19				<b>V</b>	MED
612N			General - for all cutting appliations with	0.394	0.354	0.236	0.669	$\checkmark$	<b>√</b>			SMALL
The state of the s	Semi- Flush		easy access	10	9	6	17	¥			,	
512N Web		Side cutter - oval head     This is the most widely used head shape     Fits for all cutting applications where easy access is given	General - for all cutting appliations with	0.472	0.433	0.236	0.748		1		1	MED
Common of the state of the stat	Semi- Flush	It is robust and offers the highest cutting capacity	easy access	12	11	6	19	•	*		<b>Y</b>	
2412E	Semi- Flush	Side cutter – oval head     This is the most widely used head shape     Fits for all cutting applications where easy access is given     It is robust and offers the highest cutting	General - for all cutting appliations with	0.472	0.433	0.236	0.748	$\sqrt{}$	<b>\( \)</b>		<b>/</b>	MED
Wells		The ergonomic handles and the special materials ensure a soft feel, operating comfort and safety	easy access	12	11	6	19	<b>V</b>				
T622N	wells access is given	Most widely used head shape     Fits for all cutting applications where easy	Micro & Fine	0.394	0.354	0.236	0.669					MICRO
No. of the second		access is given  It is robust and size for size offers the highest	electronic	10	9	6	17	<b>/</b>			<b>✓</b>	

CUTTERS				Dimensions				s			96	o.	
	Model	Cut	Description	Key Applications	A (in / mm)	B (in / mm)	C (in / mm)	D (in / mm)	Micro- Electronics			Microscope	Head Size
2422E	11		Side cutter - oval head     Offers the highest cutting capacity     Most widely used head shape     Fits all cutting applications where easy	Micro	0.748	0.433	0.236	0.748					MED
	Welte	Full Flush		electronics	12	11	6	19			<b>V</b>		
599FO			High precision for optical fibres - special tool steel     Side cutter, suitable for cutting Kevlar® silks     Avoid any other application than cutting Keylars like to avoid dampain the tool	Stainless Steel Coil Wires, Kevlar®, Vectran™	0.472	0.433	0.24	0.748					MED
	Wells of em	Semi- Flush		Braided Wires, Fiber Optics	12	11	6	19	V			<b>V</b>	
2482E	1.	1.	Quitable for working on printed-circuit	General - for all cutting application with limited access, SMD	0.236	0.433	0.236	1.024	-	<b>/</b>		<b>✓</b>	MED
2402L	Wede em	Flush	boards, component connections, can be used in both 90° and 180° applications • Ergonomic handle and special materials ensure a soft feel, operating comfort and safety		6	11	6	26					WILD
2403E	Work		Tip cutter - angled wide robust head Oval shape. 30° Similar to 503E, but with ergonomic handles The angled head provides for precise cuts at different working angles The ergonomic handles and special materials ensure a soft feel, operating comfort and safety	Electronic, Microelectronic,	0.354	0.433	0.236	0.787	<b>/</b>	<b>/</b>			MED
		Flush		Wires, PCB boards	9	11	6	20				V	
599T	Welco		access is given  This is the most widely used head shape  Board & Sta	Carbide, Wire, Boards, Fine	0.748	0.433	0.236	0.748					MED
				& Standard electronic	19	11	6	19	V	<b>Y</b>	<b>Y</b>		
503ET	Weiz		Tip cutter - angled wide head Tungsten-carbide cutters	Hard and tough wires e.g. piano	4.331	0.433	0.236	0.795					MED
	Sem Son	Semi- Flush	The angled head provides for precise cuts at different working angles	wire, nickle and diode leads	9.6	11	6	20.2	v		<b>Y</b>		
1500BSF	Ω		<ul> <li>Extremely versatile thanks to a selection of different cutting heads</li> </ul>	Hard and tough									
	The same of the sa			wires e.g. piano wire, nickle and diode leads									

The items listed are the most popular Weller Erem products for the electronic's industry.



CUTTERS					Dimensions  A B C D				Micro- Electronics	SMD	Carbide	Microscope	Head Size
	Model	Cut	Description	Applications	(in / mm)	(in / mm)	(in / mm)	(in / mm)	Mic Elect			Micro	Head
E147A			Stents, Catheters	Guide Wires, Stents, Catheters, Single/ Multiple	0.394	0.630	0.295	0.630		<b>√</b>			MAXI
		Semi- Flush	For cutting hard wires with minimal effort	Fillers, Lateral/ Internal Cuts, Electronic appllications	10	16	7.5	16	<b>V</b>				IVIAAI
884EPCM	Steller Steller		Side cutter, suitable for cutting printed-circuit   S	Micro & Standard electronics					- V				MAXI
505C		IC and SMD tools for inserting, extracting, straightening and cutting IC and SMD components	Micro & Standard	4.724	0.433							MED	
			Inserting and extracting 14-16 pins	electronics, SMD rework	120	11			<b>V</b>				MED

PLIERS				Dimensions									<u> </u>	
	MODEL	DESCRIPTION	<b>Key</b> Applications	A (in / mm)	B (in / mm)	C (in / mm)	D (in / mm)	E (in / mm)	G (in / mm)	Micro- Electronics	SMD		Microscop	Head Size
2443P		Round nose pliers with very precise, smooth jaws     Pliers for miniature and standard electronics     Optimized ergonomically shaped handles for	Fine and Standard	5.748	0.433	0.236	1.594	0.031	0.063					MEDIUM
		increased comfort  Non-reflecting surface, ESD-safe Suitable for bending wires	electronic, bending wire	146	11	6	40.5	0.8	1.6	٧	<b>Y</b>			ME
24420	1	Flat nose pliers     Pliers for miniature and standard electronics     Optimized ergonomically shaped handles for increased comfort	Miniature and standard	1.307	0.433	0.236	1.594	0.134	0.047		<b>✓</b>			MEDIUM
2442F	2442P	Non-reflecting surface, ESD-safe     Suitable for gripping flat workpieces     With smooth jaws and precision-machined edges	electronics	33.2	11	6	40.5	3.4	1.2	<b>V</b>				MED
		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	0.91	0.43	0.24		0.2	0.12	A		A = Jaw length B = Head width		
531E			preventing scratching and nicking for miniature and standard electronics	23	11	6		5	3	E	ci ci	E G	ckness tips ight tips	
552S		Wire Stripper:  • Suitable for all types of insulation, Teflon®, Tefzel and optical fibres  • Unlimited stripping length thanks to side stripping  • Suitable for simple and precise stripping of optical fibres  • Non-reflecting surface	All Types of Insulation, Teflon, Tefzel					0.433	0.354	G	F	A O O O O O O O O O O O O O O O O O O O		
	W. J.	Robust, high-precision tools for use in electronics and aeronautical engineering The required diameter is set by means of screws Screwdriver and key are included Interchangeable blades ESD-safe Unique precision for damage-free stripping of fine wires	and optical fibers.					11	9		A = Jaw ler B = Width o C = Depth o E = Total he G = Length	of tips of interchar eight of bot		de
2411PD	max	Needle nose pliers with very precise and rounded jaws     Non-reflecting surface, ESD-safe     Inside segrated jaws for better grip	For miniature and standard electronics	1.307	0.433	0.236	5.291	0.039	0.047	<b>/</b>	<b>\</b>		<b>/</b>	MEDIUM
	O Am	Inside serrated jaws for better grip	application	33.2	11	6	150	1	1.2					_

	TW	EEZ	ERS	Key	Length	Weight	o- nics	0	edoc	us onic	iai	Size
	Model	Shape	Description	Applications	(in/ mm)	(oz/g)	Micro- Electronics	SMD	Microscope	Vario Electro	Material	Head Size
		Narrow	Cutting tweezers with narrow oblique head     Hardened cutting edges for long	Designed for cutting fine soft wires up to dia. 0.25	4.528	0.74					Carbon	0.216
15AGW		Oblique Head	service life     Suitable for cutting fine, soft wires and small components	mm/.010 in. and small components	115	21		<b>/</b>		<b>V</b>	Steel	narrowed to a pt
B15AGS		Cutting	Black cutting tweezers with narrow oblique head. For soft wires up to dia. 0.25 mm/.010 Inch Hardened cutting edges for long	Cutting fine, soft wires and small components	4.528	0.741	$\checkmark$	<b>\</b>	<b>\</b>	<b>\</b>	Carbon Steel	
			service life  • Suitable for delicate standard		115	21						
3SA		Straight	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	120	0.49		$\checkmark$		<b>\</b>	Stainless Steel	Fine Point
			SMD tweezers, angled 45°, with	SMD with different designs	0.010	0.49					Stainless	Fine
102ACAX	ICZAC	Angled	pointed tips for vertical application, and reverse clamping action for easy holding	(chip, MELFs, mini MELFs)	0.25	14	$\checkmark$			<b>/</b>	Steel	Point
			Precision tweezers with flat rounded ting for gripping appell companyers.	Standard gripping applications and assembly	4.843	0.564					Stainless Steel	
E2ASA		Rounded	tips for gripping, small components. Tip width 2 mm/.078 lnch • Special stainless steel, nonmagnetic, non-rusting, acid-proof, heat-resistant	jobs on printed-circuit boards, e.g. in the goldsmith and jewelry industries	123	16		$\checkmark$	<b>\</b>			
			Ergonomic precision tweezers with long, straight and pointed tips, e.g. for	Standard gripping applications and assembly jobs on printed-circuit	4.724	0.582			<b>/</b>		Stainless Steel	
E3CSA	Strai	Straight	assembly jobs on printed-circuit boards • Thermally insulated, soft foam handles, ESD-safe	boards, e.g. in the goldsmith and jewelry industries	120	17	<b>\</b>	<b>/</b>		<b>V</b>		
E7SA		Curved	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	0.53	\				Stainless	Very
		oui vou			120	15		<b>V</b>		<b>Y</b>	Steel	Fine
		Chroight	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	0.71				Stainless	Fine	
EOOSA		Straight			120	30		<b>V</b>		<b>V</b>	Steel	Point
51SA	81-81	Curved	Precision tweezers, curved 30°, relieved     Very pointed tips	Applications in biology, medicine, laboratory	4.528	0.42	<b>\</b>				Stainless	
313A		Guiveu	Relieved shape at front of handle provide excellent visibility of the area to be worked on	technology and microelec- tronics	115	12		<b>V</b>	<b>V</b>	<b>V</b>	Steel	
05004		Otro-in-t-	Precision tweezers with pointed synthetic tips (PPS) and serrated finger grips for secure handling	Microscope, applications	4.724	0.53					Stainless	
258SA		Straight		with acids and molten soldering tin.	120	15			<b>V</b>	<b>\</b>	Steel	
2/0055		Ctraight	Precision tweezers with ceramic tips and serrated finger grips for secure handling. Volume resistance	General purpose use in	5.118	0.84	1				Stainless	Very
249CER	(e 0	Straight	secure nanding. Volume resistance 16 \( \Omega/cm\), Heat-resistant up to 900°C (1500°F). Resistant to acids and molten soldering tin. Water-repellent	microelectronics, medical and laboratories	130	24	<b>V</b>	<b>/</b>	_	<b>/</b>	Steel	Fine
29W30		Stripping	Stripping tweezers with synthetic fibre handle. For wires of dia. 0.25 – 0.3 mm/.010 – .011 lnch (AWG)	Stripping fine wires with	4.724	0.99					Stainless	
	men welt	-a.pping	0.3 mm/.010 – .011 Inch (AWG 30 – 28). • For standard and Teflon® insulation	PVC or Teflon® insulation	120	28				٧	Steel	
0040		America-1	Extraction tweezers for Sub-D	Suitable for extracting	4.724	0.53		<b>√</b>	<b>1</b>	<b>1</b>	Stainless	
024C	cost Weller	coac Weller = Angled	d Extraction tweezers for Sub-D connectors.	contacts from the rear of a plug connector	120	15	$\checkmark$				Steel	
141SAP			Wafer tweezers with polyester tips for protecting Si, GaAs or Ti wafers against	All Wafer applications	5.906	1.05					Stainless	
			damage. For 4" – 6" wafers.		150	30					Steel	



# Weller

# **#PowerfulTogether**

Weller quarantees you the latest and best technology in the soldering market.

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Weller soldering technology that is packed with precision, innovation and quality.

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#### Take a deep breath. Providing clean air for your workplace.

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