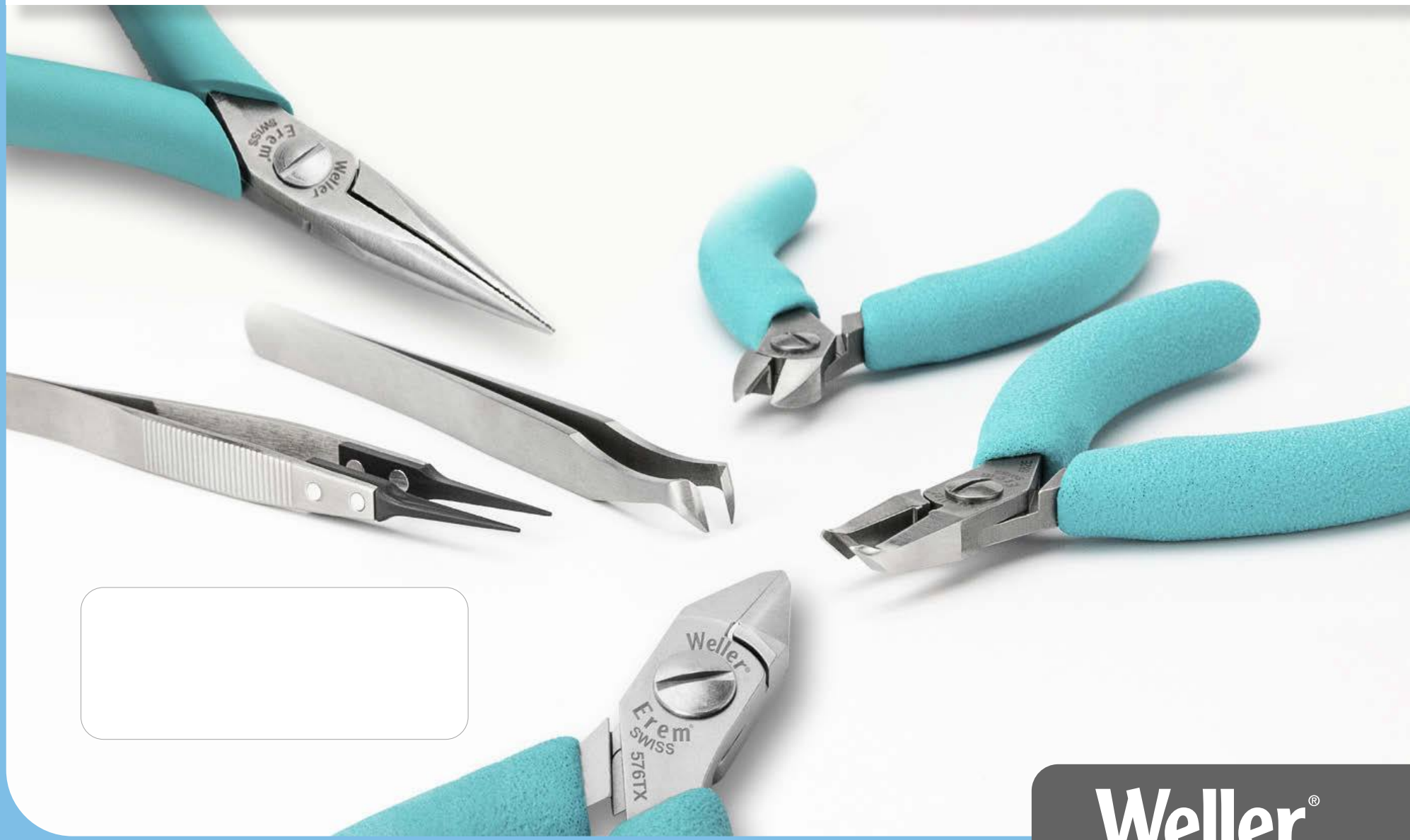
Swiss Made

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

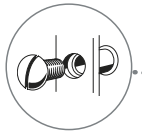
The Magic Spring system used in Weller-Erem precision tools is unique. It is integral to the cutting head and provides a constant closing and re-opening force.
It is highly reliable, makes the tools easy to use and reduces operator fatigue.

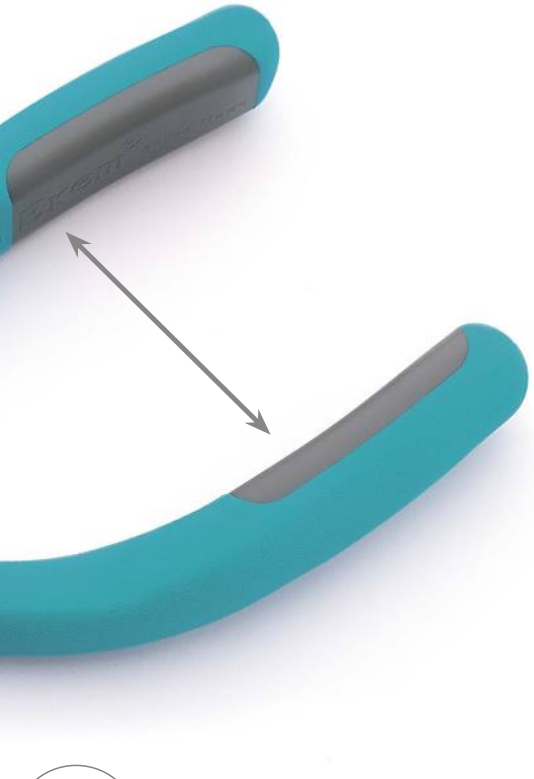
- Reduce costs thanks to long life
- Constant spring force
- Guarantees more than 1 million operations

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.

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.

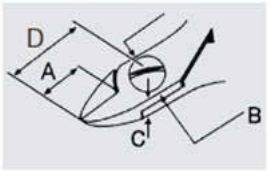
ESD-safe

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

CUTTERS

Model	Cut	Description	Key Applications	Dimensions				Dental/ Ortho	Cardio-vascular*	Typical Medical	Tungsten-Carbide Steel
				A	B	C	D				
503ETST 	Flush	• Tip cutter - angled wide head	Guide Wires, Stents, Catheters, Single/ Multiple Fillers, Lateral/ Internal Cuts	0.354 in 9 mm	0.433 in 11 mm	0.236 in 6 mm	0.748 in 19 mm		✓		✓
576TX 	Flush	• Tip cutter -pointed relieved head • The underside is relieved and facilitates optimm 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 11 mm	0.433 in 11 mm	0.236 in 6 mm	0.748 in 19 mm		✓		✓
576TX-1 	Flush	• 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 11 mm	0.433 in 11 mm	0.236 in 6 mm	0.011 in 19 mm		✓		✓
595T 	Semi-Flush	• 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 12 mm	0.433 in 11 mm	0.236 in 6 mm	0.748 in 19 mm		✓		✓
599TF 	Flush	• Side cutter - oval head • Fits all cutting applications where easy access is given		0.472 in 12 mm	0.433 in 11 mm	0.236 in 6 mm	0.748 in 19 mm		✓		✓
599TFO 	Semi-Flush	• Side cutter • High precision for optical fibres • Ideal for Kevlar® silks, Vectran™ sheated wires, optical fibres and small stainless wires.	Stainless Steel Coil Wires, Kevlar®, Vectran™ Braided Wires, Fiber Optics	0.472 in 12 mm	0.43 in 11 mm	0.24 in 6 mm	0.748 in 19 mm		✓		✓
E147A 	Semi-Flush	• 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 12 mm	0.413 in 10.5 mm	0.284 in 7.2 mm	- -	✓	✓	✓	
T622N 	Flush	• 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 9 mm	0.354 in 9 mm	0.236 in 6 mm	0.590 in 15 mm		✓	✓	✓

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



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

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

CUTTERS

Model	Cut	Description	Key Applications	Dimensions				Dental/ Ortho	Cardio-vascular*	Typical Medical	Tungsten-Carbide Steel
				A	B	C	D				
622NB **2622NB** 	**Flush**	• Side cutter - pointed relived head • Facilitates optimum access to extremely hard-to-reach areas		0.354 in 9 mm	0.39 in 9.8 mm	0.236 in 6 mm	0.65 in 16 mm				✓
632NCF 	**Super Full Flush**	• 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 ruber 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 9 mm	0.354 in 9 mm	0.236 in 6 mm	0.590 in 15 mm		✓	✓	
2476TX1 	**Semi-Flush**	• 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 11 mm	0.433 in 11 mm	0.236 in 6 mm	0.011 in 19 mm		✓	✓	✓
792E 	**Super Full Flush**	• 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 12 mm	0.433 in 11 mm	0.236 in 6 mm	0.748 in 19 mm			✓	
2422E 	**Flush**	• 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 12 mm	0.433 in 11 mm	0.236 in 6 mm	0.748 in 19 mm			✓	

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

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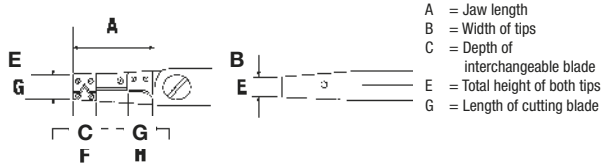
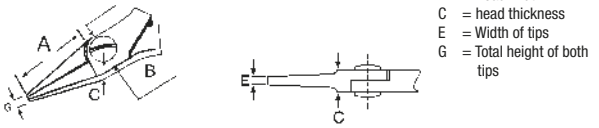
PLIERS

Model	Cut	Description	Key Applications	Dimensions A	B	C	E	G	DIMENSION DIAGRAM
552S 	Wire Stripper	• 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 fibers.	0.82 in	0.24 in	0.24 in	0.43 in	0.354 in	
				21 mm	6 mm	6 mm	11 mm	9 mm	
2411PD 		• 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	
				33.5 mm	11 mm	6 mm	1 mm	1.2 mm	
531E 	Tapered 	• 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	
				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

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.

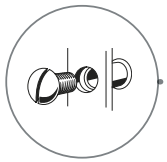
It is highly reliable, makes the tools easy to use and reduces operator fatigue.

- 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
- 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.

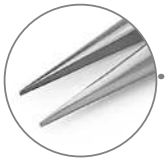
The choice of high-quality materials and meticulous tempering are especially important during the manufacturing of these tweezers.

- 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.



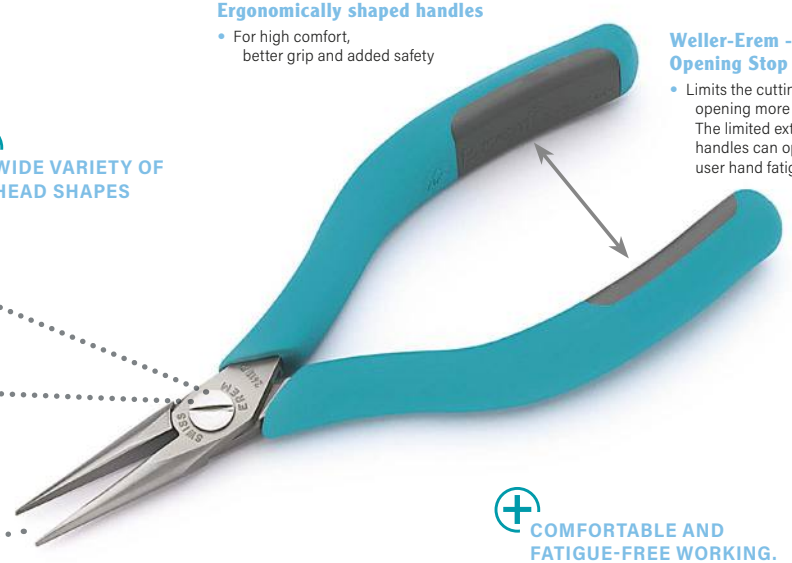
Ergonomically shaped handles

- 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.

ESD-safe

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

TWEEZERS

Model		Shape	Description	Key Applications	Length	Weight	Dental/ Ortho	Various Medical	Material	Head Size
2ASARU		Straight/ Round	• 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 120 mm	0.53 oz 16 g		✓	SS w/ Teflon Coated Tips	N/A
5FSA, 5MBS		Staight Pointed	• 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 115 mm	0.42 oz 12 g		✓	Stainless Steel	
15AGS		Narrow Oblique Head	• 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 115 mm	0.74 oz 21 g		✓	Carbon Steel	.216 narrowed to a pt
29Y Series			• Non-reflecting surface	Suitable for stripping fine wires with PVC or Teflon® insulation.	4.724 in 120 mm	0.78 oz 22 g		✓	Stainless & Carbon	
940AS		Ring-Shaped	• 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 120 mm	0.60 oz 17 g	✓	✓	Stainless Steel	
7SA		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 in 120 mm	0.53 oz 15 g		✓	Stainless	Very Fine
5SA		Straight	• 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 115 mm	0.42 oz 12 g		✓	Stainless Antiacid	Very Fine
258SA		Straight	• 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 120 mm	0.53 oz 15 g		✓	Stainless Anti-acid w/ pointed synthetic tips	Fine Point

For Tweezers information, please see
https://www.weller-tools.com/professional/USA/us/Top-Menu/Know+How+and+FAQ/Know-How+Erem/Tweezers:+Erem+impresses

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TWEEZERS

Model		Shape	Description	Key Applications	Length	Weight	Dental/ Ortho	Various Medical	Material	Head Size
249SA		Straight	• 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 130 mm	0.71 oz 20 g		✓	Anti-Magnetic	Blunt
M5S		Straight	• 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 80 mm	0.21 oz 6 g		✓	Stainless Steel	Very Fine
3CSA		Straight	• 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 110 mm	0.39 oz 11 g		✓	Anti-Magnetic	
1SA		Straight	• 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 120 mm	0.49 oz 14 g		✓	Stainless Steel	Fine Point
2ASA		Straight	• 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 120 mm	0.53 oz 15 g		✓	Stainless Steel	Flat Round
3CSA		Straight	• 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 110 mm	0.39 oz 11 g		✓	Stainless Steel	Fine Point
3SA		Straight	• 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 120 mm	0.49 oz 14 g		✓	Stainless Steel	Fine Point
5SA		Straight	• 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 115 mm	0.42 oz 12 g		✓	Stainless Steel	Fine Point

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TWEEZERS

Model		Shape	Description	Key Applications	Length	Weight	Dental/ Ortho	Various Medical	Material	Head Size
5ASA		Bent	• 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 115 mm	0.42 oz 12 g		✓	Stainless Steel	Fine Point
7SA		Bent	• 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 120 mm	0.53 oz 15 g		✓	Stainless Steel	Fine Point
AASA		Straight	• 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 125 mm	0.56 oz 16 g		✓	Stainless Steel	Fine Point
OOSA		Straight	• 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 120 mm	0.71 oz 20 g		✓	Stainless Steel	Fine Point
OODSA		Straight	• 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 120 mm	0.71 oz 20 g		✓	Stainless Steel	Fine Point
15AGW		Cutting	• Cutting tweezers with narrow oblique head. For soft wires up to dia. 0.25 mm/.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 115 mm	0.92 oz 26 g		✓	Carbon Steel	Narrow Oblique
4ASA		Straight	• 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 110 mm	0.45 oz 13 g		✓	Stainless Steel	Very Fine

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