Tweezers

Erem manufacture a wide range of tweezers.

The combination of expert manufacture, symmetry and balance give Erem tweezers their renowned reputation for precision and the highest quality.

- Pointed tips for precision work
- Ergonomically shaped handles prevent hand fatigue
- Large selection of matching SMD tweezers and cutting tweezers for individual applications

Erem®

Tweezers

Erem impresses

Erem manufactures a wide range of precision tweezers. The range covers tweezers made from hardened steel, stainless steel, non-magnetic acid resistant stainless steel, titanium, brass, nickel silver and nickel-plated tweezers. Tweezer tips can be serrated or smooth metal, or made from synthetic ESD safe material to prevent damage to fragile surfaces.

In addition to SMD and stripping tweezers, the range includes special gripping tweezers, which enable particularly fine wires or insulated optical fibres to be held and manipulated.

Erem can make to order tweezers for specialised applications. The combination of precision-manufactured, symmetrical tips and perfect balance make Erem tweezers outstanding high-precision tools of the highest quality.

Material

The choice of which tweezers to use will depend as much on the material it is made from as the function it carries out:

Hardened steel

Tweezers made from hardened steel are typified by their particularly hard tips, which ensure great durability. The tweezers are magnetic and the material is not non-rusting.

Stainless steel

Tweezers made from stainless steel have robust tips and are non-rusting. The material is less hard than hardened steel.

Stainless-steel tweezers have the identification letter „S“ in their order numbers.

Erem special stainless steel

This alloy is non-magnetic. The tweezers are non-rusting, acid-proof and heat-resistant up to 300°C (512°F).

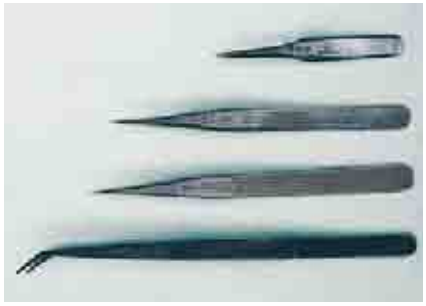
Tweezers made from special stainless steel tweezers have the identification letter „SA“ in their order numbers.

Titanium

Titanium tweezers are light weight and resistant to high temperatures.

Coating

Only Erem offers tweezers with a special Pyroplast coating.



Advantages:

- Heat-resistant up to 500°C (932°F), almost twice as high as Teflon® or Cralon
- No capillary effect on tips, e.g. while soldering (non-stick property)
- No contamination caused by positive or negative charge
- Water-resistant
- Radiation-resistant
- Thickness of coating 60-80 µ

The Pyroplast coating is not available on all Erem tweezers.

It is made to order and requires a minimum order quantity.

Please contact your nearest sales office for more information.

Ergonomic

Erem has developed a series of tweezers with ergonomic handles to reduce the risk of Repetitive Strain Injuries (RSI) to the hands.

The identification letter in the order number is „E".

Erem also offers two further innovative tweezers with ergonomically shaped handles:

- E15AGW cutting tweezers with hardened cutting edges for increased service life
- EOODSA precision tweezers with straight strong tips which are inside-serrated for secure handling

Advantages:

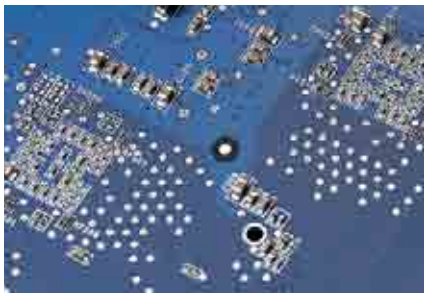
- Ergonomically shaped handles reduce Carpal Tunnel Syndrome (CTS) and early hand fatigue
- Two-color, thermally insulated soft-grip handles made from soft foam material ensure high user comfort
- Manufactured from non-magnetic, acid-proof and stainless steel alloy
- ESD-safe

Teflon® is a registered Trademark of E.I. Dupont de Nemours and Company

Special applications

The quality and performance of Erem precision tweezers are the result of more than 40 years of development and know-how.

Erem is one of the leaders in the development of high-precision tools for a wide variety of applications in electronics, aeronautical engineering, light engineering, telecommunications, laboratory technology, medicine and the jewelry, watchmaking and goldsmith industries.



Tweezers for biology and laboratory applications

Erem micro-tweezers are suitable for use in biology (e.g. model 5MBS, 5FSA or M5S).

These tweezers with very pointed tips enable confined spaces to be accessed and offer excellent visibility when performing precision work and when working under a microscope.

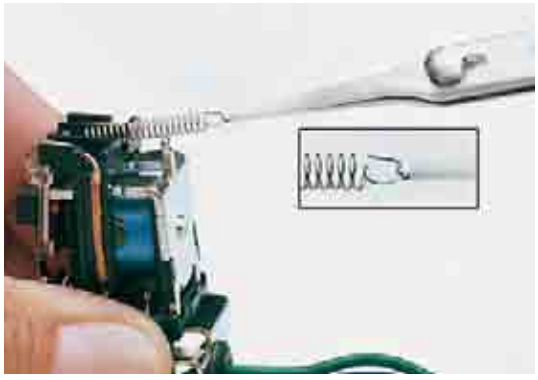
High precision tweezers are particularly suitable for analysis applications and the handling of tissues, fine threads and other very small objects.

Tweezers for use in the jewelry industry

These stainless steel tweezers with Teflon® coated tips (e.g. type 2ASASLT) are particularly suited for use in the jewelry industry. They are robust and the Teflon® coated tips are non stick.

Titanium tweezers type like 3CTA are also ideal for this application. Their lightweight maintains fingertip control over extended working periods and their resistance to high temperatures allows them to be used where gas flames might be encountered.

Tweezers for use in light engineering and dental applications

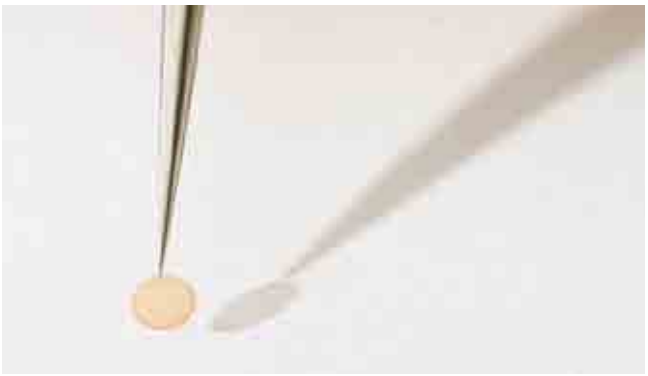


Erem offers special gripping pliers for appli-cations in light engineering. The lockable gripping tweezers type 940AS can withstand a tensile force of 5 kg and can securely hold small wires.

The stainless steel construction allows the tweezers to be sterilised in an autoclave.

Precision tweezers: Pointed tips straight

- For applications in microelectronics, jewelry-making, watchmaking, medicine and laboratory technology
- Suitable for delicate standard applications and precision work on small components or wires
- For all models with the suffix SA or SASL in the order number: Special stainless steel, non-magnetic, non-rusting, acid-proof, heat-resistant
- For all models with the suffix S in the order number: Stainless steel, robust tips, non-rusting, non-reflecting surface



80 mm/3.150 Inch

Model		Description
M5S	6 g 0.21 oz.	Micro-tweezers, very pointed tips, e.g. for precision work under a microscope.

108 mm/4.252 Inch

Model		Description
ACSA	16 g 0.56 oz.	Precision tweezers with serrated finger grips for secure handling. For precise bending and holding of components or wires.
20AS	12 g 0.42 oz.	Precision tweezers with serrated finger grips and inside-serrated tips for secure handling. Guide pin to avoid overlapping of tips. For precise bending and holding of components or wires.

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.
3CTA	8 g 0.28 oz.	Model same as 3CSA, but made from titanium: non-magnetic, very heat-resistant and very light.
53CSA	11 g 0.39 oz.	Precision tweezers with anti-crush feature. Prevents damage to sensitive components. Tweezers relieved at front for secure handling.

120 mm/4.724 Inch

Model		Description
3SA	14 g 0.49 oz.	Precision tweezers with pointed tips for work in microelectronics.
3SASL	14 g 0.49 oz.	Same as 3SA, but economy model.
1SA	14 g 0.49 oz.	Precision tweezers with pointed tips for standard applications..
1SASL	14 g 0.49 oz.	Same as 1SA, but economy model.
00SA	20 g 0.71 oz.	Precision tweezers with pointed tips. Very robust. Suitable for standard applications, e.g. for assembly in electronics.

Precision tweezers: Pointed tips straight

120 mm/4.724 Inch

Model		Description
00SASL*	20 g 0.71 oz.	Same as OOSA, but economy model.
00CSA	18 g 0.64 oz.	Model same as 00SA, but with shorter tips.
00BSA	20 g 0.71 oz.	Model same as 00SA, but with serrated finger grips for secure handling.
00DSA	20 g 0.71 oz.	Model same as 00SA, but with serrated finger grips and inside-serrated tips for secure handling.
64SA	17 g 0.60 oz.	Precision tweezers with pointed tips and serrated finger grips for secure handling.
11N	17 g 0.60 oz.	Precision tweezers with medium-pointed tips for use on soft components. Nickel-silver, non-magnetic.
AAZ*	16 g 0.56 oz.	Precision tweezers with medium-pointed tips, nickel-plated. Suitable for electronic assembly tasks.

125 mm/4.921 Inch

Model		Description
AAS	16 g 0.56 oz.	Precision tweezers with fine but robust tips.
AASA	16 g 0.56 oz.	Precision tweezers with fine but robust tips for standard applications.
AASASL*	16 g 0.56 oz.	Same as AASA, but economy model.

*Not available in North America

Precision tweezers: Pointed tips straight

125 mm/4.921 Inch

Model		Description
AM	17 g 0.60 oz.	Precision tweezers made from brass. The soft metal protects sensitive components against damage. No sparks.

130 mm/5.118 Inch

Model		Description
249SA	20 g 0.71 oz.	Precision tweezers with pointed synthetic tips (PPS) and serrated finger grips for secure handling. Volume resistance 16 Ω/cm. Heat-resistant up to 250°C (480°F). Resistant to acids and molten soldering tin. Water-repellent.
249CER*	24 g 0.84 oz.	Same as 249SA, but with ceramic tips. Heat-resistant up to 900°C (1500°F).

140 mm/5.512 Inch

Model		Description
RRS	30 g 1.05 oz.	Precision tweezers with strong tips for heavy-duty applications.
SSSA	11 g 0.39 oz.	Precision tweezers with long, narrow grips and low tension, responds to minimal pressure. The long grips allow precision work close to heat sources.

150 mm/5.906 Inch

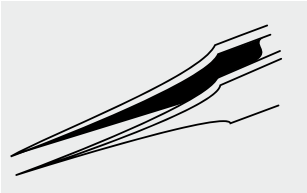
Model		Description
29SA	26 g 0.92 oz.	Reverse-action tweezers with wide, rounded tips. For holding parts by reverse clamping action. Insulated handles, e.g. for protecting against heat.

160 mm/6.299 Inch

Model		Description
21SA	23 g 0.81 oz.	Precision tweezers with medium-pointed tips and serrated finger grips and inside-serrated tips for secure handling. Very robust. The long grips allow precision work close to heat sources.

*Not available in North America

Precision tweezers: Pointed tips straight relieved



- For precision work e.g. under a microscope
- Relieved shape facilitates excellent access to the most confined spaces
- For all models with the suffix SA or SASL in the order number: Special stainless steel, non-magnetic, non-rusting, acid-proof, heat-resistant
- For all models with the suffix S in the order number: Stainless steel, robust tips, non-rusting, non-reflecting surface

90 mm/3.543 Inch

Model		Description
M4AS*	9 g 0.32 oz.	Micro-tweezers, very pointed tips, e.g. for working under a microscope.

110 mm/4.331 Inch

Model		Description
4SA	13 g 0.46 oz.	Precision tweezers with very pointed tips.
4ASL	13 g 0.46 oz.	Same as 4SA, but economy model.

*Not available in North America

Precision tweezers: Pointed tips straight relieved

115 mm/4.528 Inch

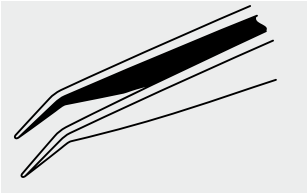
Model		Description
5MBS*	12 g 0.42 oz.	Precision tweezers with extremely pointed tips (~ 0.03 x 0.07 mm/.002 Inch) for use in dissection procedures and working under a microscope. For use on soft materials only.
5FSA*	12 g 0.42 oz.	Precision tweezers with extremely pointed tips (~ 0.05 x 0.1 mm/.003 Inch) for use in dissection procedures and working under a microscope. For use on soft materials only.
5SA	12 g 0.42 oz.	Precision tweezers with very pointed tips, suitable for very fine wires.
5SASL	12 g 0.42 oz.	Same as 5SA, but economy model.
2SA	16 g 0.56 oz.	Precision tweezers with medium-pointed tips.
2SASL	16 g 0.56 oz.	Same as 2SA, but economy model.

120 mm/4.724 Inch

Model		Description
258SA	15 g 0.53 oz.	Precision tweezers with pointed synthetic tips (PPS) and serrated finger grips for secure handling. Volume resistance 16 Ω/cm. Heat-resistant up to 250°C (480°F). Resistant to acids and molten soldering tin. Water-repellent.

*Not available in North America

Precision tweezers: Pointed tips bent



- For applications in biology, medicine, laboratory technology and microelectronics
- Bent shape facilitates access to confined spaces
- For all models with the suffix SA or SASL in the order number: Special stainless steel, non-magnetic, non-rusting, acid-proof, heat-resistant
- For all models with the suffix S in the order number: Stainless steel, robust tips, non-rusting, non-reflecting surface

110 mm/4.331 Inch

Model		Description
3CBS	15 g 0.53 oz.	Precision tweezers, curved 40°, with pointed tips, for precision work such as assembly on printed-circuit boards.

115 mm/4.528 Inch

Model		Description
5CSA	12 g 0.42 oz.	Precision tweezers, curved 30°, relieved. Pointed tips. Relieved shape at front of handle provides excellent visibility of the area to be worked on.
5BSA	12 g 0.42 oz.	Precision tweezers, curved 30°, relieved. Pointed tips. Relieved shape at front of handle provides excellent visibility of the area to be worked on.
51SA	12 g 0.42 oz.	Precision tweezers, curved 30°, relieved. Very pointed tips. Relieved shape at front of handle provides excellent visibility of the area to be worked on.

Precision tweezers: Pointed tips bent

115 mm/4.528 Inch

Model		Description
51SASL	12 g 0.42 oz.	Same as 51SA, but economy model.
5ASA	12 g 0.42 oz.	Precision tweezers, lightly curved 15°, relieved. Very pointed tips, e.g. for installing small components.
5ASASL	12 g 0.42 oz.	Same as 5ASA, but economy model.

120 mm/4.724 Inch

Model		Description
7SA	15 g 0.53 oz.	Precision tweezers, curved, relieved, with pointed tips. Excellent handling in confined spaces.
7SASL	15 g 0.53 oz.	Same as 7SA, but economy model.

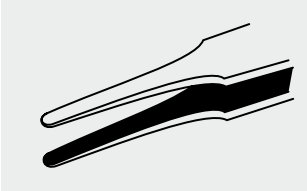
140 mm/5.512 Inch

Model		Description
65ASA	11 g 0.39 oz.	Precision tweezers, curved 50°. Very pointed tips. For working with extra-small chips and other miniature components.

150 mm/5.906 Inch

Model		Description
24SA	22 g 0.78 oz.	Precision tweezers, curved 40°, with robust pointed tips. Serrated finger grips and inside-serrated tips for secure handling. Guide pin to avoid overlapping of tips. Ideally suitable for soldering and assembly jobs.
30SA	26 g 0.92 oz.	Reverse-action tweezers, curved 30°, with robust pointed tips. Fibreglass handles for protection against heat. Reverse clamping action for comfortably holding parts. Particularly suitable for soldering and assembly jobs.

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, non-magnetic, 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 Inch.
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

Precision tweezers with ergonomic handles

- This series offers models with thin shaped tips to suit every application
- Ergonomically shaped handles reduce hand fatigue and facilitates comfortable working
- Thermally insulated, soft foam handles, ESD-safe
- For all models with the suffix SA in the order number: Special stainless steel, non-magnetic, non-rusting, acid-proof, heat-resistant

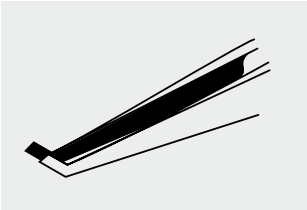
120 mm/4.724 Inch

Model		Description
E5SA	25 g 0.88 oz.	Ergonomic precision tweezers with straight, very pointed tips for gripping fine wires.
E3CSA	25 g 0.88 oz.	Ergonomic precision tweezers with long, straight and pointed tips, e.g. for assembly jobs on printed-circuit boards.
E00SA	30 g 1.05 oz.	Ergonomic precision tweezers with straight, strong tips for standard applications. Very robust.
E00DSA	30 g 1.05 oz.	Model same as EOOSA, but with inside-serrated tips.
E7SA	28 g 0.99 oz.	Ergonomic precision tweezers with curved strong tips, e.g. for working in confined spaces.
E2ASA	28 g 0.99 oz.	Ergonomic precision tweezers with straight, flat and rounded tips for simple gripping jobs. Tip width 2 mm/.078 Inch.
E15AWG	30 g 1.05 oz.	Cutting tweezers, carbon-steel tips.

SMD tweezers

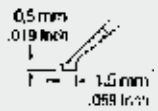
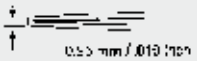
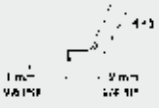
- High-quality precision tweezers for SMD jobs with different designs (chip, MELFs, mini MELFs)
- Blunted edges prevent damage to printed-circuit boards

SMD tweezers – Angled tips

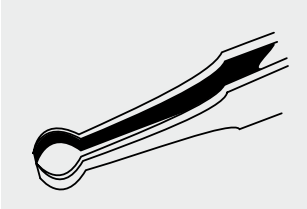


- Suitable for perfect handling of chips and miniature components
- Suitable for assembling SMD printed-circuit boards or ceramic substrates
- Bent shape facilitates optimum access to confined spaces and provides excellent visibility of the area to be worked on
- For all models with the suffix CA in the order number: Special stainless steel, non-magnetic, non-rusting, acid-proof, heat-resistant

115 mm/4.528 Inch

Model		Description
102ACA 	15 g 0.53 oz.	SMD tweezers, angled 45°, with pointed tips for vertical application.
102ACAX 	14 g 0.49 oz.	Model same as 102ACA, but reverse clamping action for easy holding.
103ACA 	15 g 0.53 oz.	SMD tweezers, angled 45°, with slightly wider tips for vertical application.

SMD tweezers – Round tips straight



- Suitable for gripping and holding round components and wires
- Blunted edges prevent damage to printed-circuit boards
- For all models with the suffix SA in the order number: Special stainless steel, non-magnetic, non-rusting, acid-proof, heat-resistant

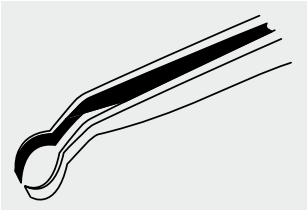
110 mm/4.331 Inch

Model		Description
39SA	15 g 0.53 oz.	SMD tweezers with round tips, dia. 0.3 mm/.011 Inch. Serrated finger grips for secure handling. For gripping small wires and cylindrical components.
40SA	15 g 0.53 oz.	SMD tweezers with round tips, dia. 0.4 mm/.015 Inch. Serrated finger grips for secure handling. For gripping small wires and cylindrical components.

120 mm/4.724 Inch

Model		Description
150SAMF	13 g 0.46 oz.	SMD tweezers with round, very narrow tips, dia. 1.2 – 2.5 mm/ .047 – .098 Inch. Serrated finger grips for secure handling. For gripping cylindrical components, mini MELFs, etc.
150SAD	13 g 0.46 oz.	SMD tweezers with round tips, dia. 1.5 – 3 mm/ .059 –.118 Inch.Serrated finger grips for secure handling. For gripping cylindrical components, mini MELFs, etc.
150SA	13 g 0.46 oz.	SMD tweezers with round tips, dia. 1.5 – 3 mm/ .059 –.118 Inch. Serrated finger grips for secure handling. For gripping cylindrical components.
151SA	13 g 0.46 oz.	SMD tweezers with round tips, dia. 3 – 6 mm/ .118 –.236 Inch. Serrated finger grips for secure handling. For gripping cylindrical components.

SMD tweezers – Round tips bent



- Suitable for gripping fine wires and cylindrical components
- Blunted edges prevent damage to printed-circuit boards
- For all models with the suffix SA in the order number: Special stainless steel, non-magnetic, non-rusting, acid-proof, heat-resistant

115 mm/4.528 Inch

Model		Description
32BSA	17 g 0.60 oz.	SMD tweezers, angled 45°, with round tips, dia. 5 mm/.197 Inch.
32BSA20*	17 g 0.60 oz.	SMD tweezers, angled 45°, with round tips, dia. 2 mm/.078
32BSA25	17 g 0.60 oz.	MD tweezers, angled 45°, with round tips, dia. 2.5 mm/.098 Inch.
150SAMB	13 g 0.46 oz.	MD tweezers, angled 40°, with round tips, dia. 1.2 – 2.5 mm/ .047 – .098 Inch. Serrated finger grips for secure handling.

*Not available in North America

Locking Gripping Tweezers

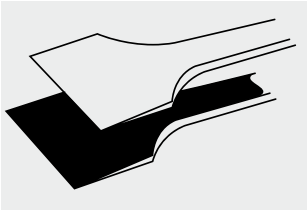
- Gripping tweezers enable the user to hold and manipulate particularly fine wires with a diameter from 0.3 mm/.011 Inch or insulated optical fibres with a diameter of between 1.5 mm/.059 Inch and 5 mm/.197 Inch
- Suitable as a ligature clamp in dentistry
- Can be disinfected and sterilized

120 mm/4.724 Inch

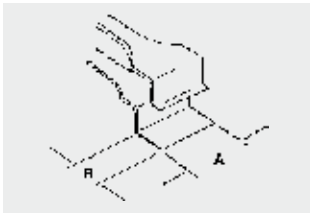
Model		Description
940AS*	17 g 0.60 oz.	Gripping tweezers with locking mechanism. The ring-shaped tip provides for secure handling up to a tensile force of 5 kg.

*Not available in North America

Wafer tweezers



- Suitable for 3" to 6" wafers
- Serrated finger grips for secure handling
- Wafer tweezers are available to order in various sizes and coatings
- For all models with the suffix SA in the order number: Special stainless steel, non-magnetic, non-rusting, acid-proof, heat-resistant



A = Paddle width
B = Paddle depth

125 mm/4.921 Inch

Dimensions in mm/Inch

Model		A	B	Description
91SA	15 g 0.53 oz.	12 .472	7 .276	Standard wafer tweezers for 3" and 4" wafers.

130 mm/5.118 Inch

Dimensions in mm/Inch

Model		A	B	Description
600ASA	23 g 0.81 oz.	19,5 .768	8 .315	Wafer tweezers with flat lower paddle and 6 upper fingers for protecting wafers against damage. For 6" wafers.
608ASA	23 g 0.81 oz.	30 1.181	8,5 .276	Model same as 600ASA, but 30 mm/1.181 Inch wide.
600JSA	24 g 0.84 oz.	20 .787	8 .315	Wafer tweezers with free-floating Teflon® upper paddle for secure, damage-free gripping. For 4" – 6" wafers.

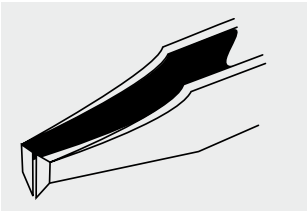
Wafer tweezers

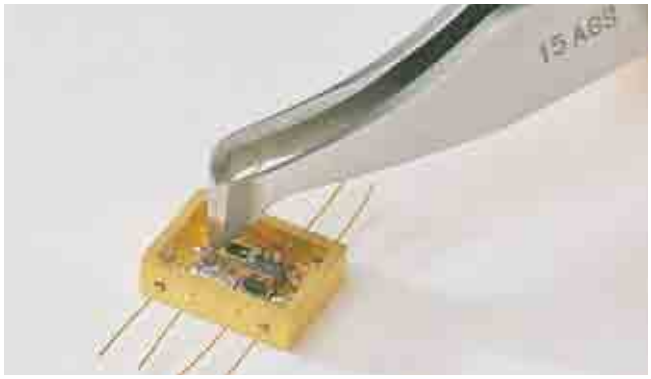
150 mm/5.906 Inch

Dimensions in mm/Inch

Model		A	B	Description
141SAP	30 g 1.05 oz.	30 1.181	8 .315	Wafer tweezers with polyester tips for protecting Si, GaAs or Ti wafers against damage. For 4" – 6" wafers.

Cutting tweezers



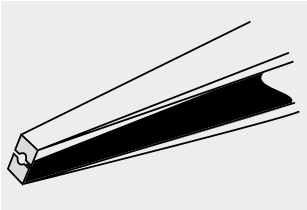


- Suitable for cutting fine, soft wires and small components
- Delivers high-precision cuts
- Hardened cutting edges for long service life
- For all models with the suffix S in the order number: Stainless steel, robust tips, non-rusting, non-reflecting surface

115 mm/4.528 Inch

Model		Description
15AGS	21 g 0.74 oz.	Cutting tweezers with narrow oblique head. For soft wires up to dia. 0.25 mm/.010 Inch.
15AGW	26 g 0.92 oz.	SCutting tweezers with narrow oblique head. For soft wires up to dia. 0.25 mm/.010 Inch.

Stripping tweezers



- Suitable for stripping fine wires with PVC or Teflon® insulation
- Non-reflecting surface
- Please send a wire sample when ordering

120 mm/4.724 Inch

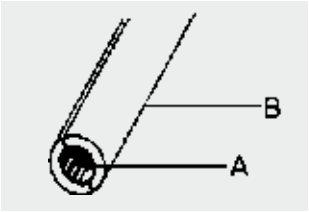
Model		Description
29Y30*	22 g 0.78 oz.	Miniature stripping tweezers, dia. 0.25 mm/.010 Inch (AWG 30). Stainless steel. Serrated finger grips for secure handling.
29Y32*	22 g 0.78 oz.	Miniature stripping tweezers, dia. 0.2 mm/.007 Inch (AWG 32). Stainless steel. Serrated finger grips for secure handling.
29Y34*	22 g 0.78 oz.	Miniature stripping tweezers, dia. 0.16 mm/.006 Inch (AWG 34). Stainless steel. Serrated finger grips for secure handling.
29Y36*	22 g 0.78 oz.	Miniature stripping tweezers, dia. 0.13 mm/.005 Inch (AWG 36). Stainless steel. Serrated finger grips for secure handling.
29Y40*	22 g 0.78 oz.	Miniature stripping tweezers, dia. 0.08 mm/.003 Inch (AWG 40). Stainless steel. Serrated finger grips for secure handling.

120 mm/4.724 Inch

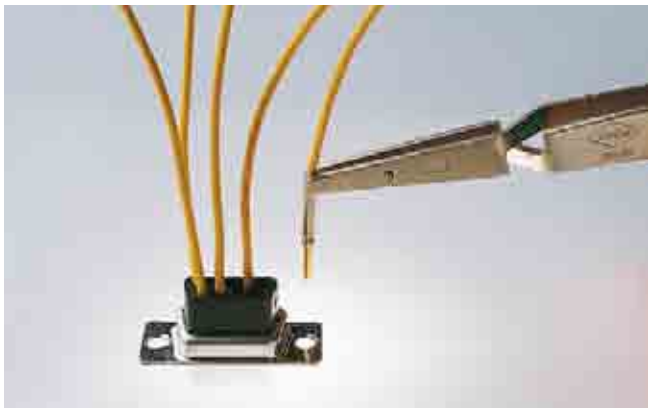
Model		Description
29W30	28 g 0.99 oz.	Stripping tweezers with synthetic fibre handle. For wires of dia. 0.25 – 0.3 mm/.010 – .011 Inch (AWG 30 – 28). For standard and Teflon® insulation.
XB29W301		Spare blade for 29W30

*Not available in North America

Extraction tweezers



A = Outside diameter of pin
B = Inside diameter of pin



- Suitable for extracting contacts from the rear of a plug connector

120 mm/4.724 Inch

Dimensions in mm/Inch

Model		Ø A	Ø B	Description
024C	15 g 0.53 oz.	12 .472	7 .276	Extraction tweezers for Sub-D connectors. Stainless steel.