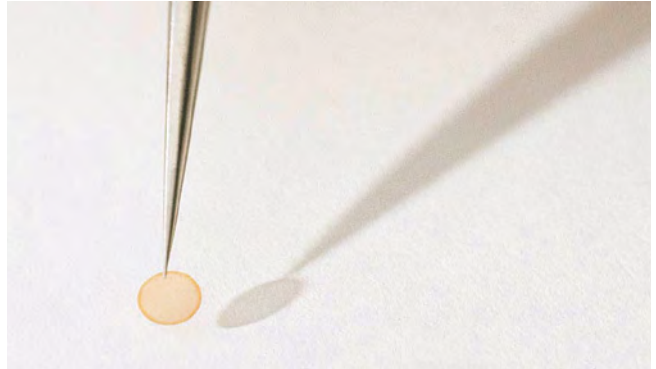


Tweezers

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**

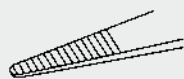


Model		Description
M5S	6 g 0.21 oz.	Micro-tweezers, very pointed tips, e.g. for precision work under a microscope.

 **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.

Tweezers

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).
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 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.
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 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

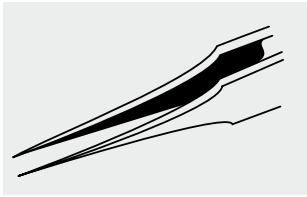


Model		Description
21SA	23 g 0.81 oz.	Precision tweezers with medium-pointed tips and serrated finger grips and inside-serrated tips for secure handling. Very robust. The long grips allow precision work close to heat sources.

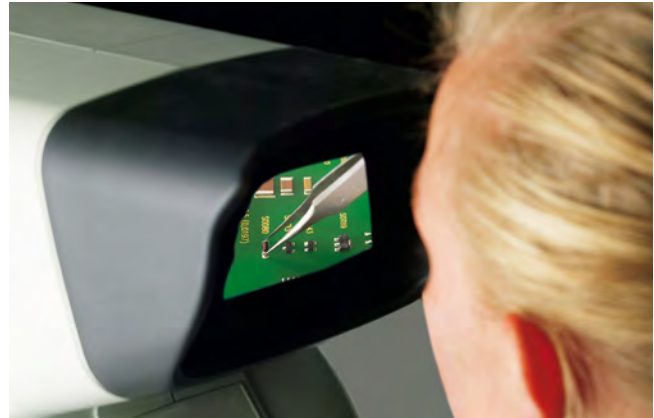
*Not available in North America

Tweezers

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
5MB-S*	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

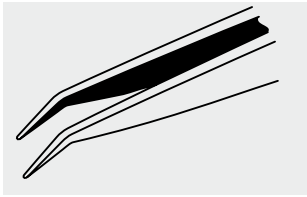


Model		Description
258SA	15 g 0.53 oz.	Precision tweezers with pointed synthetic tips (PPS) and serrated finger grips for secure handling. Volume resistance 16 Ω/cm. Heat-resistant up to 250°C (480°F). Resistant to acids and molten soldering tin. Water-repellent.

*Not available in North America

Tweezers

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.



Model		Description
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.