



SPECIAL-TWEEZERS FOR THE SMD-TECHNIQUE

high precision tweezers from special steel
stainless – matt finish – anti-magnetic – acid-resisting
- alternative with ESD coating (-13) -

No.	Length		Finish	Weight
	mm	inches		
5-049	110	4 3/8"	straight, very sharply pointed	12 g
5-049-13	110	4 3/8"	as above, with ESD coating	12 g
5-051	115	4 1/2"	straight pointed	15 g
5-051-13	115	4 1/2"	as above, with ESD coating	15 g
5-052	110	4 3/8"	bent, very sharply pointed	13 g
5-052-13	110	4 3/8"	as above, with ESD coating	13 g
5-059	120	4 3/4"	flat, rounded tips, 2.0 mm width	15 g
5-059-13	120	4 3/4"	as above, with ESD coating	15 g
5-078	130	5 1/8"	tapering, chisel, 1.0 mm width	16 g
5-078-13	130	5 1/8"	as above, with ESD coating	16 g
5-053	110	4 3/8"	obliquely angled, very sharply pointed	13 g
5-053-13	110	4 3/8"	as above, with ESD coating	13 g
5-054	120	4 3/4"	sickle-shape-curved, very sharply pointed	16 g
5-054-13	120	4 3/4"	as above, with ESD coating	16 g
5-055	120	4 3/4"	sickle-shaped, very sharply pointed	15 g
5-055-13	120	4 3/4"	as above, with ESD coating	15 g
5-056	120	4 3/4"	slightly bent, very sharply pointed	15 g
5-056-13	120	4 3/4"	as above, with ESD coating	15 g
5-057	120	4 3/4"	self-locking, straight-pointed	13 g
5-058	120	4 3/4"	self-locking, bent, pointed	13 g

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No.	Length		Finish	Weight
	mm	inches		
5-061	115	4 1/2"	bent, flat rounded tips	16 g
5-062	115	4 1/2"	35° angled, 2.0 mm width, with gripping cavity Ø 0.8 mm	16 g
5-062-13	115	4 1/2"	as above, with ESD coating	16 g
5-063	115	4 1/2"	35° angled, 3.5 mm width, with gripping cavity Ø 0.8 mm	16 g
5-063-13	115	4 1/2"	as above, with ESD coating	16 g
5-065	120	4 3/4"	straight, 3.0 mm width with gripping cavity Ø 0.8 mm	16 g
5-065-13	120	4 3/4"	as above, with ESD coating	16 g
5-066	120	4 3/4"	30° angled, 2.5 mm width	15 g
5-066-13	120	4 3/4"	as above, with ESD coating	15 g
5-067	120	4 3/4"	tip 45° angled, 2.0 mm width	15 g
5-067-13	120	4 3/4"	as above, with ESD coating	15 g
5-068	120	4 3/4"	tip angled, 1.6 mm width	13 g
5-068-13	120	4 3/4"	as above, with ESD coating	13 g
5-071	85	3 3/8"	thin, straight-pointed	8 g
5-073	140	5 1/2"	long-thin, straight, very sharply pointed	13 g
5-073-13	140	5 1/2"	as above, with ESD coating	13 g
5-075	140	5 1/2"	straight, very sharply pointed, grip surface offset	13 g
5-076	120	4 3/4"	rigid, straight, pointed	19 g
5-076-13	120	4 3/4"	as above, with ESD coating	19 g
5-077	130	5 1/8"	round, tapering, pointed	16 g
5-077-13	130	5 1/8"	as above, with ESD coating	16 g



ELECTRONIC-TWEEZERS

No.	Length		Finish	Weight
	mm	inches		

Component tweezers

made from steel, with insulated jaws, a special tool for easy insertion and removal of plug-in transistors of various sizes

5-006	140	5 1/2"	nickel-plated	23 g
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Component tweezers

made from steel, with semi-circular jaws, 5 mm wide, to facilitate the insertion and removal of horizontally positioned components of various sizes

5-007	140	5 1/2"	nickel-plated	25 g
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Component tweezers

made from steel, with jaws bent inwards at right angles, 5 mm wide, to facilitate the removal of round or cube-shaped components

5-008	140	5 1/2"	nickel-plated	23 g
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Component tweezers

made from steel, with insulated jaws, 5.5 mm wide, for gripping flat components

5-009	140	5 1/2"	nickel-plated	22 g
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Heat dissipating tweezers

made from steel, for use when soldering transistors, gold-bonded diodes etc., the flat, wide points of the tweezers are narrow and provided with copper jaws

5-115	165	6 1/2"	nickel-plated	35 g
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Jewellerie's tweezers

made from steel, fine-rounded tips, with X-serration

5-119	140	5 1/2"	nickel-plated	19 g
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Sheet-metal tweezers

straight, flat and pointed

5-125	110	4 3/8"	nickel-plated	12 g
5-125-1	110	4 3/8"	polished, with antiallergical coating	15 g

Sheet-metal tweezers

with sliding fastener for a firm grip, straight, with narrow pointed tips

5-126	160	6 1/4"	nickel-plated	22 g
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IC-tweezers

for gripping, insertion and removal of IC's

2-601	125	5"	nickel-plated	20 g
2-601-13	125	5"	with ESD coating	20 g

Lightning tweezers

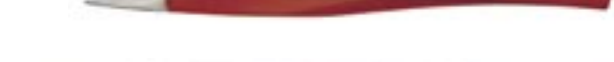
Nickel-plated steel-tweezers with **LED light**

The lightning tweezers is focussing the light to the working area at the tweezers tips enabling optimal visibility e. g. for positioning of smallest components without additional light source.

Power supply: 2 x 3 Voltage Lithium Batteries

when pressing the tweezers jaws the LED light will be switched on

5-171	120	4 3/4"	straight, pointed, finely serrated	39 g
5-172	120	4 3/4"	with fine bent tips	39 g



ELECTRONIC-TWEEZERS

No.	Length		Finish	Weight
	mm	inches		
Engineer's tweezers made from steel, with fine, bent tips, finely serrated				
5-107	150	6"	nickel-plated	20g
5-107-1	150	6"	polished, with antiallergical coating	23 g
5-107-6	150	6"	nickel-plated, strong PVC-insulated	27 g
5-107 VDE	150	6"	with VDE insulation, 1000V	37 g
5-107-9	150	6"	teflon-coated	22 g

Engineer's tweezers made from steel, heavy type, straight, flat and wide, tips with serration				
5-117	145	5 3/4"	nickel-plated	25 g
5-117-1	145	5 3/4"	polished, with antiallergical coating	26 g
5-117-6	145	5 3/4"	nickel-plated, strong PVC insulated	31 g
5-117 VDE	145	5 3/4"	with VDE insulation, 1000V	39 g
5-117-9	145	5 3/4"	teflon-coated	29 g

Engineer's tweezers made from steel, straight, with narrow pointed tips, finely serrated				
5-121	120	4 3/4"	nickel-plated	14 g
5-121-1	120	4 3/4"	polished, with antiallergical coating	14 g
5-121-6	120	4 3/4"	nickel-plated, strong PVC-insulated	17 g
5-121-9	120	4 3/4"	teflon-coated	13 g
5-122	155	6 1/8"	nickel-plated	24 g

Crossed tweezers (self-locking tweezers) made from steel, jaws 5 mm wide, finely serrated				
5-155	160	6 1/4"	polished-nickel-plated	35 g
5-155-1	160	6 1/4"	polished, with antiallergical coating	36 g

Crossed soldering tweezers (self-locking tweezers) made from steel, with bent tips and gripping well hand guard				
5-156	160	6 1/4"	polished-nickel-plated	29 g





SETS OF SPECIAL TWEEZERS in wallets of recycable nylon

5-030 **3-piece set of electronic tweezers from titan**

matt-stainless - super-light - immunity to corrosion - acid-resistant - solder-repellent - antibacterial - especially conductive - non-reflective

Weight: 60 g

No.	Description of individual tools
5-031	Titan-tweezers , sharply pointed, 110 mm
5-036	Titan-tweezers , straight, round, wide, 145 mm, with serration
5-037	Titan-tweezers , fine bent tips, 150 mm



5-110 **3-piece set of Engineer's Tweezers**

made from steel - nickel-plated

Weight: 95 g

No.	Description of individual tools
5-107	Engineer's tweezers , fine, bent tips, finely serrated, 150 mm
5-121	Engineer's tweezers , narrow pointed tips, finely serrated, 120 mm
5-155	Crossed tweezers , (self-locking) jaws 5 mm wide, finely serrated, 160 mm

5-100 **12-piece set special tweezers and tools**

Weight: 360 g

No.	Description of individual tools
2-126	Desoldering lever , slotted at one end, with plastic handle, 115 mm
2-127	Tin knife with plastic handle , 115 mm
2-601	IC-tweezers , nickel-plated, 125 mm, for gripping, inserting and removing of IC,s
5-006	Component tweezers , nickel-plated, with insulated jaws, a special tool for easy insertion and removal of plug-in transistors of various sizes, 140 mm
5-107	Engineer's tweezers , made from steel, with bent tips, nickel-plated, 150 mm
5-107-6	Engineer's tweezers , as above, strong PVC-insulation
5-115	Heat dissipating tweezers , nickel-plated, 165 mm, for soldering transistors, gold-bonded diodes etc.
5-117	Engineer's tweezers , straight, flat, wide, nickel-plated, 145 mm
5-117-6	Engineer's tweezers , as above, strong PVC-insulation
5-121	Engineer's tweezers , straight, with narrow pointed tips, 120 mm, nickel-plated
5-078	Anti-magnetic tweezers , tapering chisel, 1.0 mm width, matt finish, stainless and acid-resistant, 130 mm
5-156	Crossed soldering tweezers , (self-locking tweezers), made from steel, with bent tips and gripping well hand-guard, nickel-plated, 160 mm



SPECIAL – TWEEZERS FOR THE SMD – TECHNIQUE

high precision tweezers from special steel
stainless - matt finish - anti-magnetic - acid-resisting

5-060 6-piece set ESD-Tweezers for the SMD-Technique

with black **ESD-coating**,
in a wallet made from **conductive** material

The tweezers have been tested with good results adequate to DIN EN 61340-5-1, 61340-2-1, 61340-2-3 for work in ESD-protected areas.

Weight: 155 g

No.	Description of individual tools
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- | | |
|----------|---|
| 5-049-13 | SMD-tweezers , straight, very sharply pointed, 110 mm |
| 5-055-13 | SMD-tweezers , sickle-shaped, very sharply pointed, 120 mm |
| 5-059-13 | SMD-tweezers , flat, rounded tips, 2 mm width, 120 mm |
| 5-067-13 | SMD-tweezers , tip 45° angled, 2,0 mm width, 120 mm |
| 5-068-13 | SMD-tweezers , tip angled, 1,6 mm, 120 mm |
| 5-078-13 | SMD-tweezers , tapering, chisel, 1,0 mm width, 130 mm |



5-050 6-piece set of special tweezers for the SMD-technique

matt finish - non-reflective -

Weight: 135 g

No.	Description of individual tools
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- | | |
|-------|--|
| 5-051 | SMD-tweezers , straight pointed, 115 mm |
| 5-052 | SMD-tweezers , bent, very sharply pointed, 110 mm |
| 5-054 | SMD-tweezers , sickle-shaped curved, very sharply pointed, 120 mm |
| 5-058 | SMD-tweezers , crossed, bent, pointed, 120 mm |
| 5-061 | SMD-tweezers , bent, flat tips 2 mm wide, 115 mm |
| 5-062 | SMD-tweezers , bent, flat tips, with gripping cavity, 115 mm |





5-190



ESD TWEEZERS

made from **antistatic**, black plastic material, reinforced with glass fibre, conductive and acid-resistant

No.	Length		Finish	Weight
	mm	inches		
5-191	120	4 3/4"	straight, rounded tips	5 g
5-192	120	4 3/4"	straight, 3 mm flat-hand tips, grip surface offset	4 g
5-193	120	4 3/4"	straight, 6 mm flat, and wide tips	5 g
5-194	120	4 3/4"	bent, pointed tips	5 g
5-195	120	4 3/4"	straight, pointed tips, grip surface offset	4 g

5-190 6-piece set of ESD tweezers

in a practical table support from **conductive** material

Contents: 5 tweezers made from conductive black plastic material, No. 5-191, 5-192, 5-193, 5-194, 5-195
1 tweezers with ceramic tips No. 5-095

Weight: 125 g

5-090 5-piece set of ESD tweezers

in a practical table support from **conductive** material

Contents: 5 tweezers made from conductive black plastic material, No. 5-191, 5-192, 5-193, 5-194, 5-195

Weight: 94 g

TWEEZERS FROM CERAMIC

Ceramic tweezers meet highest standards due to their excellent mechanical, thermic and electrical features, non magnetic, antistatic, acid-resistant and alkaliproof, solder-repellent and heat-resistant.

Ceramic tweezers (each separately in a plastic case)

5-081	130	5 1/8"	straight, pointed	15 g
5-082	130	5 1/8"	straight, microscopic-pointed	16 g

Ceramic-tipped tweezers (each separately in a plastic case)

5-095	130	5 1/8"	especially slim and pointed	6 g
5-096	130	5 1/8"	slim, 2mm flat tips	6 g

TITAN TWEEZERS

Tweezers made from Titan are for highest demands, have a light weight, immunity to corrosion, even to aggressive acids, they are antimagnetic, antibacterial, solder-repellent, and non-reflective.

The melting point is 1677°C.

5-031	110	4 3/8"	matt-stainless, sharply pointed	9 g
5-035	120	4 3/8"	matt-stainless, sharply pointed	9 g
5-036	145	5 3/4"	matt-stainless, straight - round - wide tips with fine serration	15 g
5-037	150	6 "	matt-stainless, fine bent tips	12 g