

C.K TWEEZERS:

FINE, FINER, FINEST.

THE C.K TWEEZERS RANGE OFFERS SOLUTIONS FOR MANY APPLICATIONS.

PRECISION



The range "Precision" fascinates by high precision and fineness, and has been re-defined to meet the current demands.

- Steel of highest quality, stainless, antimagnetic, acid resistant.
- Produced with most modern equipment.
- Piece by piece quality controlled.
- Fine polished, matt finish.
- A wide range, many different shapes, lengths and tip widths.

C.K = quality at a high level.

BasiC

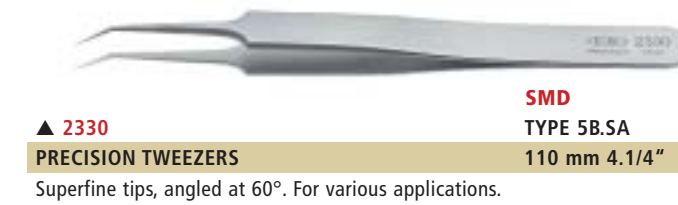


"Basic", the classical allround-range for use in electronic, fine mechanics, schools, workshops: proven quality at reasonable prices.

- High quality carbon alloy steel, polished, nickel plated or coated.
- Some patterns made of stainless steel, polished, matt finish.
- Different shapes, lengths and tip widths.
- Smooth or cut inside.

C.K Tweezers – perfect in design and function.

Material code and properties		
Code	Material	Properties
C	Carbon steel, hardened	+ Long life. + Very strong. + Low cost. - Highly magnetic. - Low corrosion resistance (protection only possible by nickel plating).
S	Stainless steel	+ Good corrosion resistance. + Fine tips. + Good tip hardness. - Slightly magnetic. - Corrosion possible under extreme circumstances.
SA	Stainless steel (No. 4435 / AISI 316)	+ Stainless. + Antimagnetic. + Resistant against normal acids and vapours. - Not as hard as "C" or "S".
Note: All-steel tweezers are 100% conductive. The use in ESD-areas is possible under certain circumstances and is to be decided upon by the user.		
Ceramic	Zirconia-ceramic and Aluminium	+ No electromagnetic induction. + No eddy current loss in HF (high frequency). + 100 % electric insulation. + 100 % non-magnetic. + 100 % non-static. + Unequalled resistance against wear, 10 times better than metal, 100 times better than plastic. + Heat resistance up to 1000° C. + Extremely low thermal conductivity. + 100% corrosion resistance. + Highly resistant to all strong acids (other than Hydrofluoric). + Solder, soft and silver, cannot adhere to surface. - Tips sensitive against misuse.
Carbofib	Carbon-fibre tips and SA-steel	+ Stainless. + Antimagnetic. + Acid resistant. + Conductive. + Protecting sensitive surfaces. + Strong and durable. + Heat resistance up to 270°C.



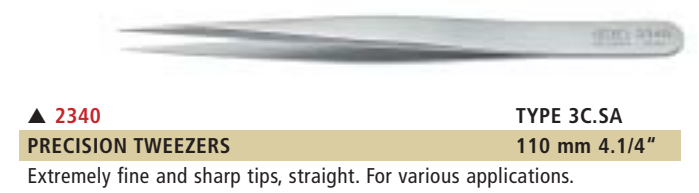
▲ 2330 **PRECISION TWEEZERS** SMD TYPE 5B.SA 110 mm 4.1/4" Superfine tips, angled at 60°. For various applications.



▲ 2331 **PRECISION TWEEZERS** SMD TYPE 5C.SA 115 mm 4.1/2" Superfine tips, offset and angled at 60°. For work in very confined spaces.



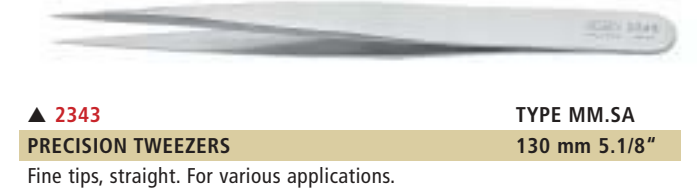
▲ 2341 **PRECISION TWEEZERS** TYPE 5.SA 110 mm 4.1/4" Superfine tips, straight. For various applications.



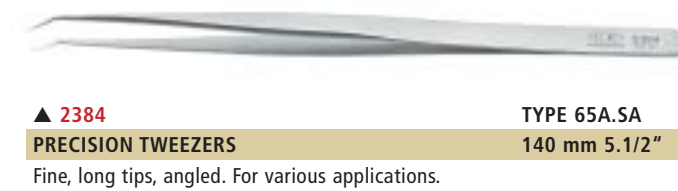
▲ 2340 **PRECISION TWEEZERS** TYPE 3C.SA 110 mm 4.1/4" Extremely fine and sharp tips, straight. For various applications.



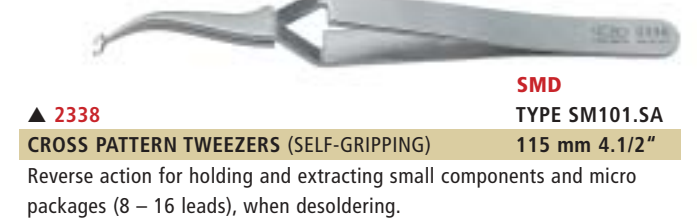
▲ 2339 **PRECISION TWEEZERS** TYPE 7.SA 110 mm 4.1/4" Fine tips, curved. For various applications.



▲ 2343 **PRECISION TWEEZERS** TYPE MM.SA 130 mm 5.1/8" Fine tips, straight. For various applications.



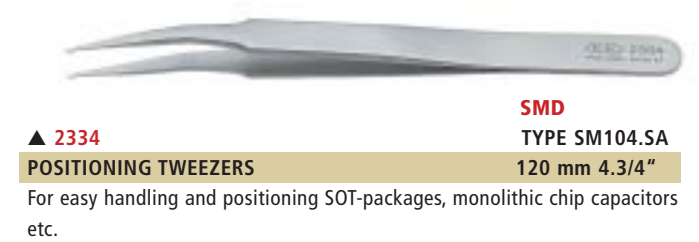
▲ 2384 **PRECISION TWEEZERS** TYPE 65A.SA 140 mm 5.1/2" Fine, long tips, angled. For various applications.



▲ 2338 **CROSS PATTERN TWEEZERS (SELF-GRIPPING)** SMD TYPE SM101.SA 115 mm 4.1/2" Reverse action for holding and extracting small components and micro packages (8 – 16 leads), when desoldering.



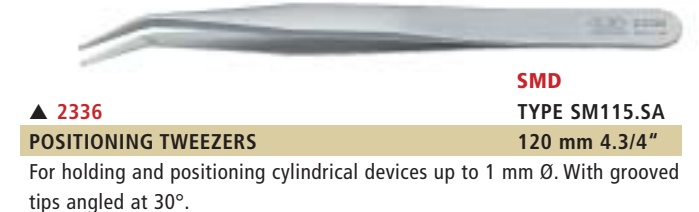
▲ 2349 **CROSS PATTERN TWEEZERS (SELF-GRIPPING)** SMD TYPE X104.SA 120 mm 4.3/4" Reverse action for easy handling and positioning SOT-packages, monolithic chip capacitors etc. No operator fatigue.



▲ 2334 **POSITIONING TWEEZERS** SMD TYPE SM104.SA 120 mm 4.3/4" For easy handling and positioning SOT-packages, monolithic chip capacitors etc.



▲ 2385 **POSITIONING TWEEZERS** SMD TYPE SM103.SA 115 mm 4.1/2" For easy handling and positioning SOT-packages, monolithic chip capacitors etc. Angled at 45°.



▲ 2336 **POSITIONING TWEEZERS** SMD TYPE SM115.SA 120 mm 4.3/4" For holding and positioning cylindrical devices up to 1 mm Ø. With grooved tips angled at 30°.



▲ **2386** **SMD**
POSITIONING TWEEZERS TYPE SM116.SA
 120 mm 4.3/4"
 For vertical holding and positioning of cylindrical devices from 1 mm Ø.
 Grooved, straight tips.



▲ **2387** **SMD**
POSITIONING TWEEZERS TYPE SM111.SA
 120 mm 4.3/4"
 For positioning 5 mm monolithic chip capacitors with flat base.
 Grooved tips, 2 mm long.



▲ **2364** **SMD**
FLAT TIP TWEEZERS TYPE 127.SA
 105 mm 4.1/8"
 Spatulas. Square, flat tips, very smooth inside to prevent scratching.
 Serrated grips.



▲ **2365** **SMD**
FLAT TIP TWEEZERS TYPE 128.SA
 105 mm 4.1/8"
 Spatulas. Square, bent, flat tips, very smooth inside to prevent scratching.
 Serrated grips.



▲ **2333** **SMD**
POSITIONING TWEEZERS TYPE 58M45.SA
 115 mm 4.1/2"
 Heavy duty tweezers for positioning and handling of square components.
 Inside stop. Working angle 45°.



▲ **2351** **SMD**
POSITIONING TWEEZERS TYPE 582.SA
 115 mm 4.1/2"
 For holding, positioning and desoldering horizontal cylindrical devices up to 1 mm Ø. Tips round inside. Serrated grips.



▲ **2353** **SMD**
POSITIONING TWEEZERS TYPE 579.SA
 115 mm 4.1/2"
 For holding, positioning and desoldering vertical and horizontal cylindrical devices up to 2 mm Ø. Tips round inside. Serrated grips.



▲ **2354** **SMD**
POSITIONING TWEEZERS TYPE 578.SA
 115 mm 4.1/2"
 For holding, positioning and desoldering horizontal cylindrical devices up to 2 mm Ø. Tips round inside. Serrated grips.



▲ **2359** **SMD**
POSITIONING TWEEZERS TYPE 22.SA
 150 mm 6"
 Fine, bent tips, fine cross-cut inside. Serrated grips. For general use.



▲ **2360** **SMD**
POSITIONING TWEEZERS TYPE 2A.SA
 120 mm 4.3/4"
 Flat, round tips, extra fine polished. Straight.



▲ **2380** **SMD**
PRECISION TWEEZERS TYPE 00.SA
 120 mm 4.3/4"
 Flat, blunt tips. Smooth inside.



▲ **2381** **SMD**
PRECISION TWEEZERS TYPE 00D.SA
 120 mm 4.3/4"
 Flat, blunt tips. Smooth inside. Serrated grips.



▲ **2382** **SMD**
PRECISION TWEEZERS TYPE 10G.SA
 110 mm 4.1/4"
 Flat, slim and round tips. Serrated grips. For general use.



▲ **2383** **SMD**
PRECISION TWEEZERS TYPE AC.SA
 110 mm 4.1/4"
 Fine, yet strong tips. Fine serrated grips. For general use.

CARBOFIB



The tips of Carbofib-Tweezers are made of black carbon fibre material. Softer than steel, but still highly resistant against wear, they protect with their smooth surface very sensitive components, e.g. SMD, wafer, ceramic devices etc. The dissipative material is also suitable for ESD-use, antimagnetic, acid resistant and temperature resistant to 270°C.



▲ **2390** **SMD**
POSITIONING TWEEZERS TYPE 259CF
 130 mm 5.1/8"
 Fine carbon-fibre tips.



▲ **2391** **SMD**
POSITIONING TWEEZERS TYPE 5CF
 130 mm 5.1/8"
 Fine, extra slim carbon-fibre tips.



▲ **2392** **SMD**
POSITIONING TWEEZERS TYPE 249CF
 130 mm 5.1/8"
 Round carbon-fibre tips, 2 mm wide.



Fine, finer, finest:
 A very stringent quality control ensures the high precision and quality of all tweezers in the PRECISION range – piece by piece.

CERAMIC

The lightweight Ceramic-Tweezers feature a number of properties, which conform also with very special demands. For full details see page 34.



▲ **2345A** **SMD**
CERAMIC TWEEZERS TYPE 73 MZ AL
 140 mm 5.1/2"
 Fine tips made from Zirconia-ceramic, straight. Aluminium grips, serrated.





▲ **2301** C
UNIVERSAL TWEEZERS 115 mm 4.1/2"
 Tip width 1 mm. Fine blunt points, finely milled inside. Polished and fine nickel plated. Serrated grips.



▲ **2302** C
UNIVERSAL TWEEZERS 115 mm 4.1/2"
 Tip width 1 mm. Fine blunt points, finely milled inside. Polished and black coated up to 10 mm from points. Serrated grips.



▲ **2307** C
UNIVERSAL TWEEZERS 145 mm 5.3/4"
 Tip width 3.5 mm. Blunt points, finely milled inside. Polished and fine nickel plated. Serrated grips.



▲ **2308** C
UNIVERSAL TWEEZERS 145 mm 5.3/4"
 Tip width 3.5 mm. Blunt points, finely milled inside. Polished and black coated up to 10 mm from points. Serrated grips.



▲ **2308A** C
UNIVERSAL TWEEZERS 145 mm 5.3/4"
 Tip width 3.5 mm. Blunt points, finely milled inside. Polished and thick, red PVC-coated up to 10 mm from points.



▲ **2309** C
UNIVERSAL TWEEZERS 140 mm 5.1/2"
 Tip width 2 mm. Blunt points, fine cross cut inside. Polished and fine nickel plated. Serrated grips.



▲ **2314** C
UNIVERSAL TWEEZERS 150 mm 6"
 Tip width 1.5 mm. Fine blunt points, bent 15 mm. Finely milled inside. With guide pin. Polished and fine nickel plated. Serrated grips.



▲ **2315** C
UNIVERSAL TWEEZERS 150 mm 6"
 Tip width 1.5 mm. Fine blunt points, bent 15 mm. Finely milled inside. With guide pin. Polished and black coated up to 10 mm from points. Serrated grips.



▲ **2315A** C
UNIVERSAL TWEEZERS 150 mm 6"
 Tip width 1.5 mm. Fine blunt points, bent 15 mm. Finely milled inside. Polished and thick, red PVC-coated up to 19 mm from points.



▲ **2303** C
POSITIONING TWEEZERS 140 mm 5.1/2"
 Tip width 5 mm, for horizontal devices of minimum 5 mm Ø. Polished and fine nickel plated. Serrated grips.



▲ **2305** C
POSITIONING TWEEZERS 140 mm 5.1/2"
 Tip width 4.5 mm, bent 90° to inside. For extracting round and square devices. Polished and fine nickel plated. Serrated grips.



▲ **2313A** C
REVERSE ACTION TWEEZERS (SELF-GRIPPING) 160 mm 6.1/4"
 Soldering tweezers with finger pads to protect against heat. Tip width 2.5 mm, 15 mm bent. Smooth inside. Polished and fine nickel plated.



▲ **2312** C
REVERSE ACTION TWEEZERS (SELF-GRIPPING) 160 mm 6.1/4"
 Soldering tweezers with 20 mm copper cooling jaws to absorb soldering heat. Round tips 3.5 mm. Smooth inside. Polished and fine nickel plated.



▲ **2327** C
RADIO TWEEZERS 155 mm 6.1/8"
 Tip width 2 mm. Fine, blunt points, straight. Finely milled inside. Polished and fine nickel plated. For universal use, in particular in service for radio, TV and video equipment.



▲ **2328** C
RADIO TWEEZERS 155 mm 6.1/8"
 Tip width 2 mm. Fine, blunt points, bent. Finely milled inside. Polished and fine nickel plated. For universal use, in particular in service for radio, TV and video equipment.



▲ **2316** SA (18/10)
PRECISION TWEEZERS 105 mm 4.1/8"
 Fine straight points. Finely polished. Austenitic, stainless steel, anti-magnetic and acid resistant.



▲ **2317** SA (18/10)
PRECISION TWEEZERS 105 mm 4.1/8"
 Fine, bent points. Finely polished. Austenitic, stainless steel, anti-magnetic and acid resistant.



▲ **2318** SA (18/10)
PRECISION TWEEZERS 130 mm 5.1/8"
 Fine straight, extra long points. Finely polished. Austenitic, stainless steel, anti-magnetic and acid resistant.



▲ **2319** S
PRECISION TWEEZERS 120 mm 4.3/4"
 Fine straight, extra long points. Finely polished. Stainless steel