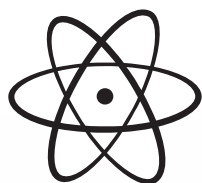




# Wiha Professional ESD.

Precise in every detail.



Hard, comfortable elastomer zones ensure low friction in the movement range of the fingers

The anti-static, ergonomic handle is fixed to the pliers

Double leaf spring for sensitive working

Low glare mirror polished finish

Precision box joint with long service life

Antistatic arms made of soft, mild and elastomer, are gentle on the palm of the hand that are sensitive to pressure



**Wiha Professional ESD.**

- **ESD-safe**  
Suitable for work at ESD workstations in accordance with IEC 61340-5-1, surface resistance  $10^6 - 10^9$  ohms

- **Anti-static**  
Unique: all handle components are discharging (dissipative)

- **Precise**  
Box joint, resistant against twisting

- **As hard as steel**  
Pliers head drop forged from high quality steels

- **Robust and durable**  
Cutting edges are individually tempered and additionally induction hardened to approx. 64 HRC; joints are extremely wear resistant and withstand high stresses, with high-quality riveting

- **Ergonomic**  
Extra wide handle backs, with soft and hard zones perfectly distributed across the handle

- **Attractive**  
Appealing design with finely polished head

Wiha Professional ESD is ideal for electronics professionals needing precise, robust pliers.

The formula for success for the pliers series is as simple as it is clever: uncompromising sharpness and hardness for flush cutting, and pleasant comfort with the handle for firm, fatigue-free grasping, holding and cutting.



The Professional ESD diagonal cutter with a broad, pointed head cut soft wires flush.



The Professional ESD needle-nose pliers are predominantly used for fine gripping and bending work.

Suitable for work at ESD workstations in accordance with IEC 61340-5-1. Safety Notice:  
Wiha Professional ESD pliers are noninsulated, therefore not suitable for working on live parts.

# Wiha Professional ESD.

Precise in every detail.

## Diagonal cutter, narrow, pointed shape.



### Z 40 1 04 Diagonal cutter Professional ESD.

Standards: DIN ISO 9654, IEC 61340-5-1.  
Head shape: Narrow, pointed head.  
Design: Bevelled cutting edges, individually tested, also appropriate for thin, hard wires. Maximum service life of cutting edge achieved through additional inductive hardening to approx. 64 HRC.  
With opening spring. Surface resistance  $10^6 - 10^9$  ohms.  
Material: High alloy carbon steel C 60.  
Application: For cutting different hardnesses of wires in places which are difficult to access.

Order-No.	mm	II	○	●	g	SB	
26808	115	4 ½	1.0	0.6	0.3	60	5
27442	115	4 ½	1.0	0.6	0.3	60	x 5

## Diagonal cutter, broad, pointed shape.



### Z 41 1 04 Diagonal cutter Professional ESD.

Standards: DIN ISO 9654, IEC 61340-5-1.  
Head shape: Wide, pointed head.  
Design: Bevelled cutting edges, also appropriate for hard wires. Maximum service life of cutting edge achieved through additional inductive hardening to approx. 64 HRC.  
With opening spring. Surface resistance  $10^6 - 10^9$  ohms.  
Material: High alloy carbon steel C 60.  
Application: All round electronic diagonal cutter for cutting wires of different hardnesses.

Order-No.	mm	II	○	●	g	SB	
26816	115	4 ½	1.4	1.0	0.4	60	5
27444	115	4 ½	1.4	1.0	0.4	60	x 5



### Z 40 3 04 Diagonal cutter Professional ESD.

Standards: DIN ISO 9654, IEC 61340-5-1.  
Head shape: Narrow, pointed head.  
Design: Blade without facet, individually inspected, suited to thin, tough wire. Maximum service life of cutting edge achieved through additional inductive hardening to approx. 64 HRC.  
With opening spring. Surface resistance  $10^6 - 10^9$  ohms.  
Material: High alloy carbon steel C 60.  
Application: For absolutely flush cutting of copper wire in places which are difficult to access.

Order-No.	mm	II	○	g	SB	
33521	115	4 ½	1.0	60		5



### Z 41 3 04 Diagonal cutter Professional ESD.

Standards: DIN ISO 9654, IEC 61340-5-1.  
Head shape: Wide, pointed head.  
Design: Cutting edge without bevel for absolute flush cutting. Maximum service life of cutting edge achieved through additional inductive hardening to approx. 64 HRC.  
With opening spring. Surface resistance  $10^6 - 10^9$  ohms.  
Material: High alloy carbon steel C 60.  
Application: For absolutely flush cutting of copper wire.

Order-No.	mm	II	○	g	SB	
26821	115	4 ½	1.0	60		5
27445	115	4 ½	1.0	60	x	5



### Z 40 4 04 Diagonal cutter Professional ESD.

Standards: DIN ISO 9654, IEC 61340-5-1.  
Head shape: Extra narrow, short head for working in particularly restricted spaces.  
Design: Cutting edge almost without bevel for virtually flush cutting, individually tested. Maximum service life of cutting edge achieved through additional inductive hardening to approx. 64 HRC.  
With opening spring. Surface resistance  $10^6 - 10^9$  ohms.  
Material: High alloy carbon steel C 60.  
Application: For virtually flush cutting copper wire in flat places which are difficult to access.

Order-No.	mm	II	○	g	SB	
26814	115	4 ½	1.0	60		5
27443	115	4 ½	1.0	60	x	5



### Z 41 4 04 Diagonal cutters Professional ESD with wire trapping spring.

Standards: DIN ISO 9654, IEC 61340-5-1.  
Head shape: Wide, pointed head.  
Design: With fixture for trapping ends of wires which have been cut off. Cutting edge with full flush cutter function for virtually flush cutting. Maximum service life of cutting edge achieved through additional inductive hardening to approx. 64 HRC.  
With opening spring. Surface resistance  $10^6 - 10^9$  ohms.  
Material: High alloy carbon steel C 60.  
Application: For virtually flush cutting copper wire, function for trapping cut off wire.

Order-No.	mm	II	○	g	SB	
26822	115	4 ½	1.2	60		5
27446	115	4 ½	1.2	60	x	5

**Safety note:**

When working with cutting pliers –  
beware of wire ends flying away.  
Please wear safety glasses.

**Diagonal cutter, semi-circular shape.****Z 43 1 04 Diagonal cutter Professional ESD.**

Standards: DIN ISO 9654, IEC 61340-5-1.

Head shape: Narrow, semi-circular head.

Design: Cutting edge with full flush cutter function for virtually flush cutting.  
Maximum service life of cutting edge achieved through additional inductive hardening to approx. 64 HRC.  
With opening spring. Surface resistance  $10^6 - 10^9$  ohms.

Material: High alloy carbon steel C 60.

Application: For virtually flush cutting of copper wire in places which are difficult to access.

Order-No.	mm	II	○	g	SB	
26826	115	4 ½	1.2	60		5
27447	115	4 ½	1.2	60	x	5

**Oblique end cutting nippers.****Z 46 1 04 Oblique end cutting nippers Professional ESD.**

Standards: DIN ISO 9654, IEC 61340-5-1.

Head shape: Wide head, angled at 29°.

Design: Cutting edge with full flush cutter function for virtually flush cutting.  
Maximum service life of cutting edge achieved through additional inductive hardening to approx. 64 HRC.  
With opening spring. Surface resistance  $10^6 - 10^9$  ohms.

Material: High alloy carbon steel C 60.

Application: For virtually flush cutting of soft wires.  
Can be used horizontally and vertically.

Order-No.	mm	II	○	g	SB	
26835	115	4 ½	1.2	78		5
27450	115	4 ½	1.2	78	x	5

**Z 44 1 04 Diagonal cutter Professional ESD.**

Standards: DIN ISO 9654, IEC 61340-5-1.

Head shape: Wide, semi-circular head.

Design: Bevelled cutting edges, also appropriate for thin, hard wires.  
Maximum service life of cutting edge achieved through additional inductive hardening to approx. 64 HRC.  
With opening spring. Surface resistance  $10^6 - 10^9$  ohms.

Material: High alloy carbon steel C 60.

Application: All round electronic diagonal cutter for cutting wires of different hardnesses.

Order-No.	mm	II	○	○	○	g	SB	
26831	115	4 ½	1.4	1.0	0.4	60		5
27448	115	4 ½	1.4	1.0	0.4	60	x	5

**Z 46 4 04 Oblique end cutting nippers Professional ESD.**

Standards: DIN ISO 9654, IEC 61340-5-1.

Head shape: Extra narrow head.

Design: Cutting edges angled at 40°.  
Cutting edge with full flush cutter function for virtually flush cutting.  
Maximum service life of cutting edge achieved through additional inductive hardening to approx. 64 HRC.  
With opening spring. Surface resistance  $10^6 - 10^9$  ohms.

Material: High alloy carbon steel C 60.

Application: For virtually flush cutting thin, soft wires in places which are particularly difficult to access.

Order-No.	mm	II	○	g	SB	
26838	110	4 ¼	0.6	42		5
27451	110	4 ¼	0.6	42	x	5

**Z 44 3 04 Diagonal cutter Professional ESD.**

Standards: DIN ISO 9654, IEC 61340-5-1.

Head shape: Wide, semi-circular head.

Design: Cutting edge with full flush cutter function for virtually flush cutting.  
Maximum service life of cutting edge achieved through additional inductive hardening to approx. 64 HRC.  
With opening spring. Surface resistance  $10^6 - 10^9$  ohms.

Material: High alloy carbon steel C 60.

Application: For virtually flush cutting of soft wires.

Order-No.	mm	II	○	g	SB	
26832	115	4 ½	1.2	60		5
27449	115	4 ½	1.2	60	x	5

# Wiha Professional ESD.

Precise in every detail.

## High leverage end cutting pliers.



### Z 47 1 04 End cutting nippers Professional ESD.

**Standards:** DIN ISO 9654,  
IEC 61340-5-1.

**Head shape:** Extra narrow, slim shape.

**Design:** Cutting edge with full flush cutter function for virtually flush cutting.  
Maximum service life of cutting edge achieved through additional inductive hardening to approx. 64 HRC.  
With opening spring.  
Surface resistance  $10^6 - 10^9$  ohms.

**Material:** High alloy carbon steel C 60.

**Application:** For virtually flush cutting of soft wires in places which are particularly difficult to access.

Order-No.	mm	II	○	g	SB	
26839	110	4 ¼	0,6	65		5
27452	110	4 ¼	0,6	65	x	5

## Needle nose pliers.



### Z 36 0 04 Needle nose pliers Professional ESD.

**Standards:** DIN ISO 9655,  
IEC 61340-5-1.

**Head shape:** Straight head.

**Design:** Fine, semi-circular tips.  
Ridged gripping surfaces.  
With opening spring.  
Surface resistance  $10^6 - 10^9$  ohms.

**Material:** C 45 special tool steel, hardened and tempered.

**Application:** Mainly for precision gripping and bending work.

Order-No.	mm	II	A	B	D	F	g	SB	
26799	120	4 ¾	9,5	23	6,5	1,4	60		5
27329	120	4 ¾	9,5	23	6,5	1,4	60	x	5
27905	145	5 ¾	12,0	40	7,5	2,0	93		5



### Z 47 2 04 End cutting nippers Professional ESD.

**Standards:** DIN ISO 9654,  
IEC 61340-5-1.

**Head shape:** Wide head.

**Design:** Cutting edge with full flush cutter function for virtually flush cutting.  
Maximum service life of cutting edge achieved through additional inductive hardening to approx. 64 HRC.  
With opening spring.  
Surface resistance  $10^6 - 10^9$  ohms.

**Material:** High alloy carbon steel C 60.

**Application:** For frontal, virtually flush cutting of thicker, soft wires.

Order-No.	mm	II	○	g	SB	
26840	115	4 ½	1,4	65		5
27453	115	4 ½	1,4	65	x	5



### Z 36 1 04 Needle nose pliers Professional ESD.

**Standards:** DIN ISO 9655,  
IEC 61340-5-1.

**Head shape:** Angled at 45°.

**Design:** Fine, semi-circular tips.  
Smooth gripping surfaces.  
With opening spring.  
Surface resistance  $10^6 - 10^9$  ohms.

**Material:** C 45 special tool steel, hardened and tempered.

**Application:** Mainly for precision gripping and bending work.

Order-No.	mm	II	g	SB	
26802	120	4 ¾	60		5
27439	120	4 ¾	60	x	5



**Safety note:**

When working with cutting pliers –  
beware of wire ends flying away.  
Please wear safety glasses.

**Round-nose and flat-nose pliers.****Z 37 0 04 Round nose pliers Professional ESD.**

Standards: DIN ISO 9655,  
IEC 61340-5-1.

Head shape: Round, short jaws.

Design: Smooth gripping surfaces.  
With opening spring.

Surface resistance  $10^6 - 10^9$  ohms.

Material: C 45 special tool steel, hardened and tempered.

Application: Mainly for precision gripping and bending work.

Order-No.	mm	II	g	SB	
26804	120	4 ¾	60		5
27440	120	4 ¾	60	x	5

**Z 38 0 04 Flat nose pliers Professional ESD.**

Standards: DIN ISO 9655,  
IEC 61340-5-1.

Head shape: Flat, short jaws.

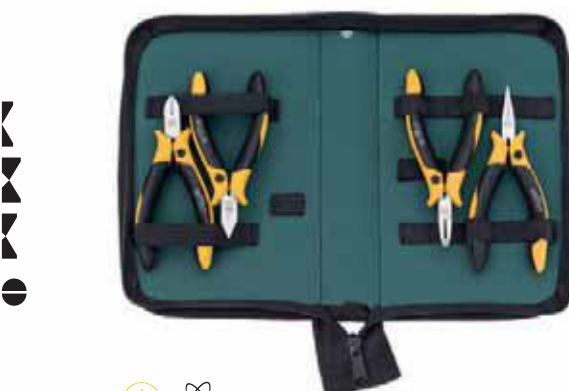
Design: Smooth gripping surfaces.  
With opening spring.

Surface resistance  $10^6 - 10^9$  ohms.

Material: C 45 special tool steel, hardened and tempered.

Application: Mainly for precision gripping and bending work.

Order-No.	mm	II	g	SB	
26806	120	4 ¾	60		5
27441	120	4 ¾	60	x	5

**Set combination.****Z 99 0 001 04 Professional ESD pliers set, 4 pcs.****Dissipative tools, electrostatically discharging.**

Design: ESD tools manufactured according to IEC 61340-5-1.

All pliers of high quality tool steel, hardened and fine-polished.

Plier handles electrostatically discharge via all components.

Surface resistance  $10^6 - 10^9$  ohms.

Pouch: Light and space-saving storage of tools.

Application: Universal set for all cutting work with electronic applications.

Order-No.	Series	
33507	Z 99 0 001 04	1
Z 41 3 04	Diagonal cutter Professional ESD.	
	115 mm 4 ½"	
Z 44 1 04	Diagonal cutter Professional ESD.	
	115 mm 4 ½"	
Z 46 4 04	Oblique end cutting nippers Professional ESD.	
	110 mm 4 ¼"	
Z 36 0 04	Needle nose pliers Professional ESD.	
	120 mm 4 ¾"	

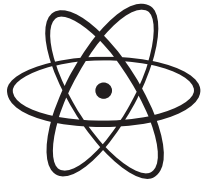
**Wiha Info**

A number of different pliers are required  
for electronics.

Please ask us if you would like other  
pliers models for further applications.

# Wiha Professional ESD.

For high standards when it comes to precision and safety.



*Depending on the application situation, the tweezers have extra fine, strong or extremely rugged tips*

*ESD coating*

*Optimised spring tension and precise symmetry for a firm, secure grasp*

*Anti-magnetic alloy made of chromium-nickel stainless steel*

The new assortment of Wiha electronic tweezers expands the possibilities for exact, and at the same time, careful work with electronic components.

These precision, special or universal tweezers are rapidly becoming essential accessories for everyday electronics work due to their high-quality design: ESD safe (anti-static), anti-magnetic, stainless and acid-resistant.

Unlike purely metal tweezers, the special coating here ensures a controlled dissipation of static charges, and therefore safe, standard-compliant use.



*Thanks to its wide selection of tips, the Professional ESD precision tweezers handle even tricky work effortlessly, for example on sensitive semiconductors.*



*Tweezers are important tools for any electronics technician to enable the necessary work to be carried out safely in the often small, confined structures of PCBs.*



**Wiha Professional ESD.**

- **ESD safe**  
Suitable for work at ESD workstations in accordance with IEC 61340-5-1, surface resistance  $10^6 - 10^9$  ohms
- **100% anti-magnetic**  
High-quality alloy made of chromium-nickel stainless steel with a high nickel content
- **Symmetrical**  
Exactly harmonised, precision tips for precise work
- **Acid-resistant and stainless**  
For an extra long service life
- **Non-glare surface**  
Enables optimal work

**Safety note:**

Wiha ESD electronic tweezers are non-insulating, and are therefore not suitable for work on live parts.

**Universal tweezers.****ZP 01 0 14 Universal tweezers Professional ESD.**

Standards: IEC 61340-5-1.  
 Tip form: Straight with a strong tip.  
 Design: Smooth gripping surfaces, gripping surfaces without grooves.  
 Non-glare black coated, anti-static.  
 Anti-magnetic and acid-resistant.  
 Surface resistance  $10^6 - 10^9$  ohms.  
 Material: Special alloyed, non-rusting, chromium-nickel stainless steel.  
 Application: Universal tweezers for all current electronics applications.

Order-No.	mm	Typ	g	
32318	130	AA	19	10

**ZP 46 0 14 Universal tweezers Professional ESD.**

Standards: IEC 61340-5-1.  
 Tip form: Straight with approx. 4 mm wide, round tip.  
 Design: Fine-tooth gripping surface, grooved gripping surface.  
 Non-glare black coated, anti-static.  
 Anti-magnetic and acid-resistant.  
 Surface resistance  $10^6 - 10^9$  ohms.  
 Material: Special alloyed, non-rusting, chromium-nickel stainless steel.  
 Application: Universal tweezers for all current electronics applications.

Order-No.	mm	Typ	g	
32343	145	40	29	10

**Precision tweezers.****ZP 06 0 14 Precision tweezers Professional ESD.**

Standards: IEC 61340-5-1.  
 Tip form: Straight with long, rugged tip - "American shape".  
 Design: Smooth gripping surfaces, gripping surfaces without grooves.  
 Non-glare black coated, anti-static.  
 Anti-magnetic and acid-resistant.  
 Surface resistance  $10^6 - 10^9$  ohms.  
 Material: Special alloyed, non-rusting, chromium-nickel stainless steel.  
 Application: Precision tweezers for gripping and holding electronic components.

Order-No.	mm	Typ	g	
32347	130	GG	19	10

**ZP 07 1 14 Precision tweezers Professional ESD.**

Standards: IEC 61340-5-1.  
 Tip form: Straight with approx. 1 mm wide tip.  
 Design: Smooth gripping surfaces, gripping surfaces without grooves.  
 Non-glare black coated, anti-static.  
 Anti-magnetic and acid-resistant.  
 Surface resistance  $10^6 - 10^9$  ohms.  
 Material: Special alloyed, non-rusting, chromium-nickel stainless steel.  
 Application: Precision tweezers for gripping and holding electronic components.

Order-No.	mm	Typ	g	
32325	130	PSF	18	10

**ZP 09 0 14 Precision tweezers Professional ESD.**

Standards: IEC 61340-5-1.  
 Tip form: Straight with a very slim and extra-fine tip.  
 Design: Smooth gripping surfaces, gripping surfaces without grooves.  
 Non-glare black coated, anti-static.  
 Anti-magnetic and acid-resistant.  
 Surface resistance  $10^6 - 10^9$  ohms.  
 Material: Special alloyed, non-rusting, chromium-nickel stainless steel.  
 Application: Precision tweezers for gripping and holding electronic components.

Order-No.	mm	Typ	g	
32326	135	SS	13	10

**Wiha Info**

A number of different pliers are required for electronics.

Please ask us if you would like other tweezers models for further applications.

# Wiha Professional ESD.

For high standards when it comes to precision and safety.

## Precision tweezers.



### ZP 11 0 14 Precision tweezers Professional ESD.

Standards: IEC 61340-5-1.  
 Tip form: Straight with a rugged and medium-fine tip.  
 Design: Smooth gripping surfaces, gripping surfaces without grooves.  
 Non-glare black coated, anti-static.  
 Anti-magnetic and acid-resistant.  
 Surface resistance  $10^6 - 10^9$  ohms.  
 Material: Special alloyed, non-rusting, chromium-nickel stainless steel.  
 Application: Precision tweezers for gripping and holding electronic components.

Order-No.	mm	Typ	g	
32327	120	00	21	10



### ZP 15 0 14 Precision tweezers Professional ESD.

Standards: IEC 61340-5-1.  
 Tip form: Straight with flat, round tip, approx. 2 mm wide.  
 Design: Smooth gripping surfaces, gripping surfaces without grooves.  
 Non-glare black coated, anti-static.  
 Anti-magnetic and acid-resistant.  
 Surface resistance  $10^6 - 10^9$  ohms.  
 Material: Special alloyed, non-rusting, chromium-nickel stainless steel.  
 Application: Precision tweezers for gripping and holding electronic components.

Order-No.	mm	Typ	g	
32329	120	2a	16	10



### ZP 16 0 14 Precision tweezers Professional ESD.

Standards: IEC 61340-5-1.  
 Tip form: Straight with a rugged tip.  
 Design: Smooth gripping surfaces, gripping surfaces without grooves.  
 Non-glare black coated, anti-static.  
 Anti-magnetic and acid-resistant.  
 Surface resistance  $10^6 - 10^9$  ohms.  
 Material: Special alloyed, non-rusting, chromium-nickel stainless steel.  
 Application: Precision tweezers for gripping and holding electronic components.

Order-No.	mm	Typ	g	
32346	110	3c	14	10

## Precision tweezers.



### ZP 18 0 14 Precision tweezers Professional ESD.

Standards: IEC 61340-5-1.  
 Tip form: Straight with a needle-fine tip.  
 Design: Smooth gripping surfaces, gripping surfaces without grooves.  
 Non-glare black coated, anti-static.  
 Anti-magnetic and acid-resistant.  
 Surface resistance  $10^6 - 10^9$  ohms.  
 Material: Special alloyed, non-rusting, chromium-nickel stainless steel.  
 Application: Precision tweezers for gripping and holding electronic components.

Order-No.	mm	Typ	g	
32334	110	5	13	10



### ZP 20 1 14 Precision tweezers Professional ESD.

Standards: IEC 61340-5-1.  
 Tip form: Round curved with a fine tip.  
 Design: Smooth gripping surfaces, gripping surfaces without grooves.  
 Non-glare black coated, anti-static.  
 Anti-magnetic and acid-resistant.  
 Surface resistance  $10^6 - 10^9$  ohms.  
 Material: Special alloyed, non-rusting, chromium-nickel stainless steel.  
 Application: Precision tweezers for gripping and holding electronic components.

Order-No.	mm	Typ	g	
32335	120	7a	15	10



### ZP 20 2 14 Precision tweezers Professional ESD.

Standards: IEC 61340-5-1.  
 Tip form: Round curved with short, straight, 3 mm long fine tip.  
 Design: Smooth gripping surfaces, gripping surfaces without grooves.  
 Non-glare black coated, anti-static.  
 Anti-magnetic and acid-resistant.  
 Surface resistance  $10^6 - 10^9$  ohms.  
 Material: Special alloyed, non-rusting, chromium-nickel stainless steel.  
 Application: Precision tweezers for gripping and holding electronic components.

Order-No.	mm	Typ	g	
32336	120	7abb	15	10



**Safety note:**

Wiha ESD electronic tweezers are non-insulating, and are therefore not suitable for work on live parts.

**SMD tweezers.****ZP 24 0 14 SMD tweezers Professional ESD.**

Standards: IEC 61340-5-1.  
 Tip form: Straight with a curved 45° angle flat, narrow tip.  
 Design: Smooth gripping surfaces, gripping surfaces without grooves.  
 Non-glare black coated, anti-static.  
 Anti-magnetic and acid-resistant.  
 Surface resistance  $10^6 - 10^9$  ohms.  
 Material: Special alloyed, non-rusting, chromium-nickel stainless steel.  
 Application: SMD special tweezers for horizontal gripping of components.

Order-No.	mm	Typ	g	
32338	120	12	15	10

**ZP 25 2 14 SMD tweezers Professional ESD.**

Standards: IEC 61340-5-1.  
 Tip form: Straight with flat, wide tip and diagonal alignment of the front gripping edge.  
 Design: Smooth gripping surfaces, gripping surfaces without grooves.  
 Non-glare black coated, anti-static.  
 Anti-magnetic and acid-resistant.  
 Surface resistance  $10^6 - 10^9$  ohms.  
 Material: Special alloyed, non-rusting, chromium-nickel stainless steel.  
 Application: SMD special tweezers for horizontal gripping of components.

Order-No.	mm	Typ	g	
32340	120	13	16	10

**ZP 25 3 14 SMD tweezers Professional ESD.**

Standards: IEC 61340-5-1.  
 Tip form: Curved at a 30° angle with a flat, wide tip and straight alignment of the front gripping edge.  
 Design: Smooth gripping surfaces, gripping surfaces without grooves.  
 Non-glare black coated, anti-static.  
 Anti-magnetic and acid-resistant.  
 Surface resistance  $10^6 - 10^9$  ohms.  
 Material: Special alloyed, non-rusting, chromium-nickel stainless steel.  
 Application: SMD special tweezers for horizontal gripping of components.

Order-No.	mm	Typ	g	
32337	120	8b	16	10

**SMD tweezers.****ZP 50 0 14 SMD tweezers Professional ESD.**

Standards: IEC 61340-5-1.  
 Tip form: Curved at a 35° angle with an approx. 2 mm wide tip, formed gripping end for 0.8 mm dia.  
 Design: Smooth gripping surface, grooved gripping surface.  
 Non-glare black coated, anti-static.  
 Anti-magnetic and acid-resistant.  
 Surface resistance  $10^6 - 10^9$  ohms.  
 Material: Special alloyed, non-rusting, chromium-nickel stainless steel.  
 Application: SMD special tweezers for gripping and holding horizontally-designed components.

Order-No.	mm	Typ	g	
32344	117	59	14	10

**ZP 99 0 140 02 SMD tweezer set Professional ESD, 4 pcs.****Dissipative tools, electrostatically discharging.**

Design: ESD tools manufactured according to IEC 61340-5-1.  
 All tweezers are ESD-safe (anti-static) via a special ESD coating, acid-resistant, non-rusting and 100% anti-magnetic.  
 Surface resistance  $10^6 - 10^9$  ohms.  
 Case: No danger to electronic components with use of ESD-safe materials.  
 Tough, space-saving metal box.  
 Application: Hand assembly of PCBs with SMD components or re-work activities.

Order-No.	Series	
32349	ZP 99 0 140 02	1
	ZP 01 0 14	Universal tweezers Professional ESD. 130 mm AA
	ZP 07 1 14	Precision tweezers Professional ESD. 130 mm PSF
	ZP 25 2 14	SMD tweezers Professional ESD. 120 mm 13
	ZP 50 0 14	SMD tweezers Professional ESD. 117 mm 59