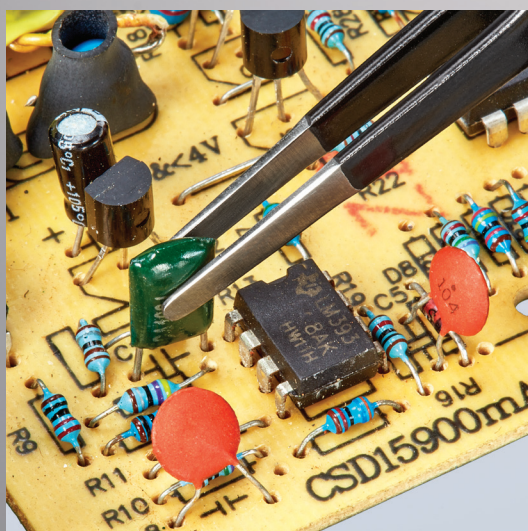
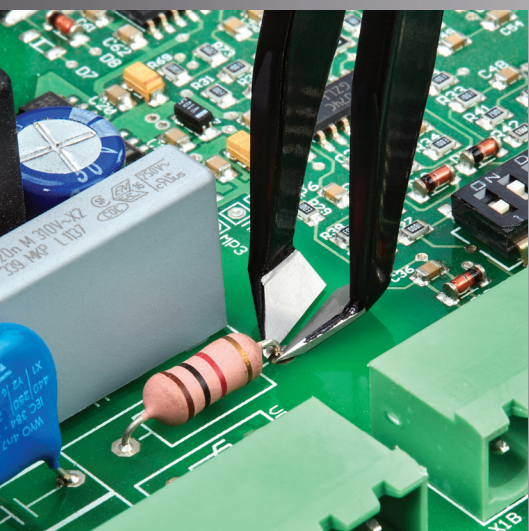
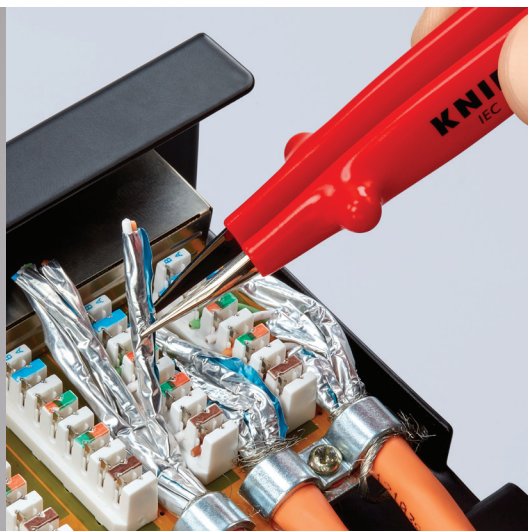


KNIPEX Quality – Since 1882



Tweezers Catalog

www.knipex-tools.com



KNIPEX TWEEZERS - AN INTRODUCTION

Professionals need to have trust in their tools. Whether they are working on small components on a circuit board or repairing parts on watches – having quality tools to rely on is a necessity. From the different type of materials to the design of the tips, our full line of tweezers offers the greatest reliability and performance on the market.

Which tweezer is right for you?

KNIPEX has a full line of gripping, positioning, stripping and cutting tweezers. They are available in a variety of tip types and material types.

For narrowing down our tweezer line, you need to answer a few questions:

- > Do you need tweezers to grip, position, strip or cut?
- > Do you need smooth or serrated tips for your gripping tweezers?
- > What type of tip do you need; blunt, pointed or needle-point?
- > Do you need ESD (Electrostatic discharge)?
- > Do you need tweezers for SMD (surface mounted devices) or THT (through hole technology)?
- > What level of corrosion resistance do you need?

Our gripping line is available in three tip types; blunt, point and needle-point. These three types provide options for choosing tweezers suited to your work, whether it is used to grip very small parts in watch repair or single strands of wire.

The positioning line offers several different types of tip configurations to best suit your application.

The stripping line has interchangeable stripping tips depending on the wire gauge you are working with.

Our cutting line is perfect for cutting fine components in tight areas.

Material type

There are five material types available in our tweezer line: titanium, premium stainless steel, stainless steel, steel and plastic.

- > Titanium is the most corrosion resistant and has an extremely high heat resistance. It is also 100% anti-magnetic and anti-bacterial.
- > Premium stainless steel has excellent resistance to most chemicals, salts and acids. These are used primarily in chemical, pharmaceutical and electrical industries. They are 80% anti-magnetic (the 20% magnetic quality is due to the weld in the manufacturing of the tweezers).
- > Stainless steel is corrosion resistant and 80% anti-magnetic. It also offers the largest material selection out of all the tweezers. It has very good chemical resistance.
- > Steel is a more economical choice in the tweezer line. It offers good chemical resistance.
- > The plastic line is made from carbon reinforced solid plastic and offers high temperature resistance as well as excellent chemical resistance. It is also 100% anti-magnetic.

Additional features

Angled tips on some of the tweezers make it easier to work in hard-to-reach areas.

The insulated tweezers are tested according to DIN IEC 60900 and rated up to 1000V. The tweezers are plastic dipped insulated and feature thumb guards to prevent slipping.

The replaceable tip tweezers feature tips that can easily be replaced by simply loosening the screws and replacing the tips. The replaceable tips have either blunt or pointed tips. These tips are ESD making it ideal for working on circuit boards and other equipment that is sensitive to electrical discharges.

Gripping Tweezers with ESD Handles

Premium stainless steel

92



- > Premium stainless steel resists most chemicals, salts and acids
- > Straight tips provide excellent precision and control when picking up and handling small objects
- > ESD handle versions discharge electrostatic energy through the handles in a gradual and controlled manner

- > Blunt tips offer a firm grip but won't damage surrounding components
- > Smooth gripping surface will not mar fine components
- > Soft rubber handles provide comfort during frequent use

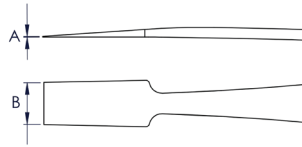
	Product Number	Length	Width	Height	Finish	Style	Tip	Tip (A)	Tip (B)
	92 21 10 ESD	5"	5/8"	5/8"	premium stainless steel, rubber ESD handles	straight	pointed	0.50mm	0.90 mm
	92 21 11 ESD	5"	5/8"	5/8"	premium stainless steel, rubber ESD handles	straight	blunt	0.13 mm	1.90 mm
	92 21 12 ESD	4 1/2"	5/8"	5/8"	premium stainless steel, rubber ESD handles	straight	needle-point	0.12mm	0.18 mm
	92 21 13 ESD	4 1/2"	5/8"	5/8"	premium stainless steel, rubber ESD handles	straight	needle-point	0.06 mm	0.12 mm
	92 21 14 ESD	5 1/4"	5/8"	3/8"	premium stainless steel, rubber ESD handles	straight	needle-point	0.50 mm	0.50 mm
	92 31 10 ESD	4 3/4"	3/8"	3/8"	premium stainless steel, rubber ESD handles	45° angled	needle-point	0.09 mm	0.16 mm

Gripping Tweezers

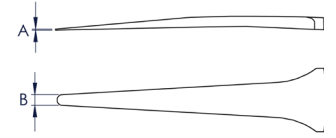
Blunt tips, premium stainless steel

92

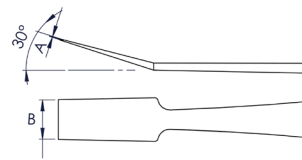
- > Premium stainless steel resists most chemicals, salts and acids
- > Used in the chemical, pharmaceutical and electrical industries
- > 80% anti-magnetic (20% magnetic due to weld during manufacturing)
- > ESD handle versions discharge electrostatic energy through the handles in a gradual and controlled manner
- > Blunt tips offer a firm grip but won't damage surrounding components
- > 92 81 01 and 92 81 04 have replaceable ESD tips (Conductive $10^2/10^3$ OHM regarding DIN EN 61340-5-1)
- > 92 91 01 has a cross over design



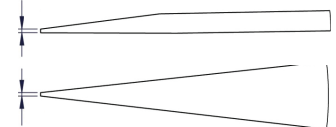
92 01 05



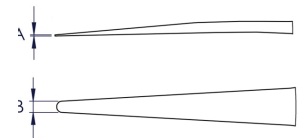
92 51 01, 95 51 02,
92 81 01 and 92 89 01



92 01 06



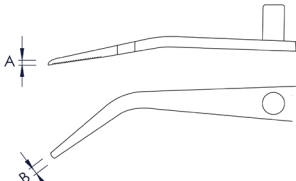
92 81 04 and 92 89 04



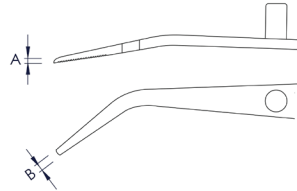
92 91 01

	Product Number	Length	Width	Height	Finish	Style	Gripping Surface	Tip (A)	Tip (B)
	92 01 05	4 3/4"	3/8"	1/2"	premium stainless steel, 80% anti-magnetic, acid resistant	straight	smooth	0.17 mm	6.00 mm
	92 01 06	4 3/4"	3/8"	11/16"	premium stainless steel, 80% anti-magnetic, acid resistant	30° angled	smooth	0.17 mm	6.00 mm
	92 51 01	4 3/4"	3/8"	7/16"	premium stainless steel, 80% anti-magnetic, acid resistant	straight	smooth	0.13 mm	1.90 mm
	92 51 02	2 3/4"	5/16"	1/4"	premium stainless steel, 80% anti-magnetic, acid resistant	straight	smooth	0.10 mm	1.20 mm
	92 81 01	5 1/8"	3/8"	11/16"	premium stainless steel with plastic and carbon fiber replaceable tips, 80% anti-magnetic, acid resistant, ESD	straight	smooth	0.40 mm	2.00 mm
	92 89 01	1 1/2"	5/16"	1/8"	plastic and carbon fiber replaceable tips for 92 81 01, anti-magnetic, acid resistant, ESD	straight	smooth	0.40 mm	2.00 mm
	92 81 04	5 1/8"	3/8"	11/16"	premium stainless steel with plastic and carbon fiber replaceable tips, 80% anti-magnetic, acid resistant, ESD	straight	smooth	1.00 mm	2.00 mm
	92 89 04	1 1/2"	5/16"	3/16"	plastic and carbon fiber replaceable tips for 92 81 04, anti-magnetic, acid resistant, ESD	straight	smooth	1.00 mm	2.00 mm
	92 91 01	4 3/4"	3/8"	7/16"	premium stainless steel, 80% anti-magnetic, acid resistant	straight	smooth	0.13 mm	1.90 mm

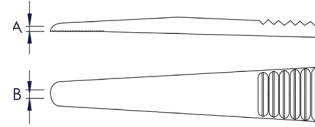
- > Stainless steel offers corrosion resistance
- > 80% anti-magnetic (20% magnetic due to weld during manufacturing)
- > Blunt tips offer a firm grip but won't damage surrounding components
- > 92 37 64, 92 47 01 and 92 67 63 are 1000V insulated
- > ESD handle versions discharge electrostatic energy through the handles in a gradual and controlled manner
- > 92 94 91, 92 95 89 and 92 95 90 have a cross over design
- > 92 58 74 ESD and 92 78 77 ESD (Dissipative $10^4/10^9$ OHM regarding DIN EN 61340-5-1)



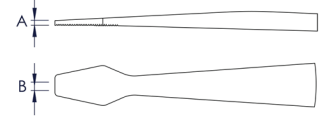
92 37 64



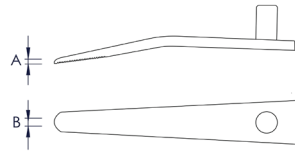
92 47 01



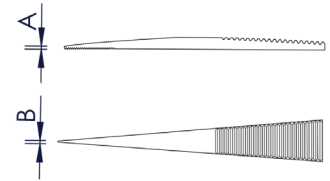
92 61 01, 92 61 02, 92 64 43,
92 72 45 and 92 78 77 ESD



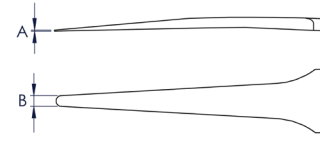
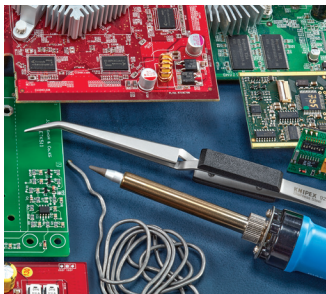
92 94 91



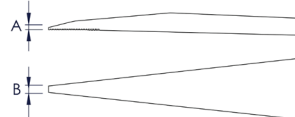
92 67 63



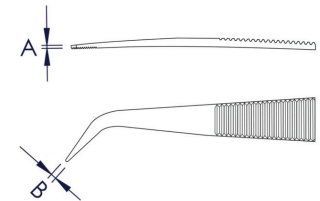
92 95 89



95 52 23 and 92 58 74 ESD



92 84 18



92 95 90

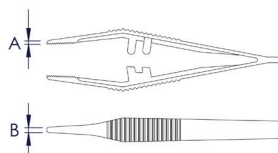
	Product Number	Length	Width	Height	Finish	Style	Gripping Surface	Tip (A)	Tip (B)
	92 37 64	6"	9/16"	1 9/16"	stainless steel, 80% anti-magnetic, acid resistant, 1000V VDE	30° angled	serrated	1.00 mm	1.30 mm
	92 47 01	5 3/4"	5/8"	1 1/2"	stainless steel, 80% anti-magnetic, acid resistant, 1000V VDE	30° angled	serrated	1.30 mm	3.00 mm
	92 52 23	4 5/8"	3/8"	3/8"	stainless steel, 80% anti-magnetic, acid resistant	straight	smooth	0.30 mm	2.00 mm
	92 58 74 ESD	4 5/8"	3/8"	1/2"	stainless steel, 80% anti-magnetic, acid resistant, ESD	straight	smooth	0.30 mm	2.00 mm
	92 61 01	7 7/8"	1/2"	13/16"	stainless steel, 80% anti-magnetic, acid resistant	straight	serrated	2.00 mm	3.20 mm
	92 61 02	11 3/4"	9/16"	7/8"	stainless steel, 80% anti-magnetic, acid resistant	straight	serrated	2.50 mm	4.70 mm
	92 64 43	4 3/4"	3/8"	9/16"	stainless steel, 80% anti-magnetic, acid resistant	straight	serrated	1.20 mm	2.70 mm
	92 67 63	5 3/4"	7/16"	1 1/2"	stainless steel, 80% anti-magnetic, acid resistant, 1000V VDE	straight	serrated	1.30 mm	3.00 mm
	92 72 45	5 3/4"	7/16"	9/16"	stainless steel, 80% anti-magnetic, acid resistant	straight	serrated	1.30 mm	2.70 mm
	92 78 77 ESD	5 3/4"	7/16"	11/16"	stainless steel, 80% anti-magnetic, acid resistant, ESD	straight	serrated	1.30 mm	2.70 mm
	92 84 18	5"	7/16"	11/16"	stainless steel, 80% anti-magnetic, acid resistant	straight	serrated	0.50 mm	1.00 mm
	92 94 91	6 1/4"	7/16"	1/2"	stainless steel, 80% anti-magnetic, acid resistant	straight	serrated	1.30 mm	4.50 mm
	92 95 89	6 1/2"	7/16"	13/16"	stainless steel, 80% anti-magnetic, acid resistant	straight	serrated	0.80 mm	1.00 mm
	92 95 90	6 3/8"	7/16"	13/16"	stainless steel, 80% anti-magnetic, acid resistant	40° angled	serrated	0.80 mm	1.00 mm

Gripping Tweezers

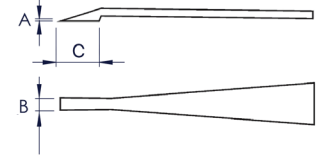
Blunt tips, plastic

92

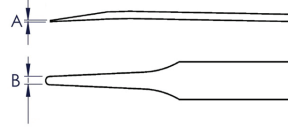
- > Plastic tweezers are made from carbon reinforced plastic (92 69 84 is made from plastic)
- > High temperature and excellent chemical resistance
- > 100% anti-magnetic
- > Blunt tips offer a firm grip but won't damage surrounding components
- > ESD handle versions discharge electrostatic energy through the handles in a gradual and controlled manner (Conductive $10^2/10^3$ OHM regarding DIN EN 61340-5-1)



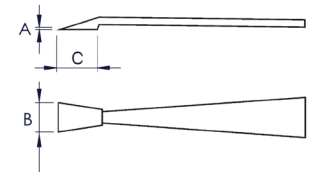
92 69 84



92 09 04 ESD



92 09 01 ESD



92 09 05 ESD

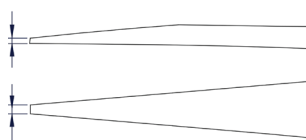
	Product Number	Length	Width	Height	Finish	Style	Gripping Surface	Tip (A)	Tip (B)	Tip (C)
	92 69 84	5"	1/2"	1 5/16"	plastic, anti-magnetic, acid resistant	straight	serrated	3.00 mm	2.00 mm	-
	92 09 01 ESD	4 1/2"	3/8"	1/2"	carbon reinforced plastic, anti-magnetic, acid resistant, ESD	straight	smooth	0.35 mm	2.00 mm	-
	92 09 04 ESD	4 1/2"	7/16"	9/16"	carbon reinforced plastic, anti-magnetic, acid resistant, ESD	straight	smooth	0.12 mm	3.30 mm	11.50 mm
	92 09 05 ESD	4 1/2"	7/16"	9/16"	carbon reinforced plastic, anti-magnetic, acid resistant, ESD	straight	smooth	0.12 mm	7.70 mm	11.30 mm

Gripping Tweezers

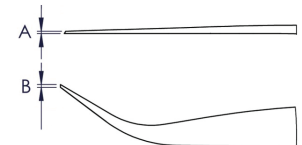
Pointed tips, premium stainless steel

92

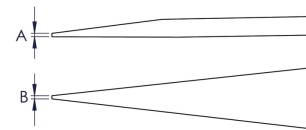
- > Premium stainless steel resists most chemicals, salts and acids
- > Used in the chemical, pharmaceutical and electrical industries
- > 80% anti-magnetic (20% magnetic due to weld during manufacturing)
- > Pointed tips offer precise gripping of fine components
- > 92 81 02, 92 81 03, 92 81 05 have replaceable ESD tips (Conductive $10^2/10^3$ OHM regarding DIN EN 61340-5-1)



92 21 01



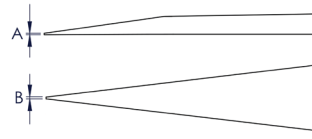
92 81 03 and 92 89 03



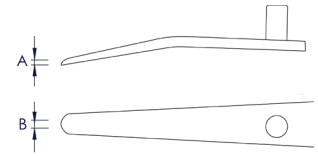
92 81 02, 92 89 02,
92 81 05 and 92 89 05

	Product Number	Length	Width	Height	Finish	Style	Gripping Surface	Tip (A)	Tip (B)
	92 21 01	4 3/4"	3/8"	1/2"	premium stainless steel, acid resistant	straight	smooth	0.50 mm	0.90 mm
	92 81 02	5 1/8"	3/8"	11/16"	premium stainless steel with plastic and carbon fiber replaceable tips, 80% anti-magnetic, acid resistant, ESD	straight	smooth	0.40 mm	0.60 mm
	92 89 02	1 1/2"	5/16"	1/8"	plastic and carbon fiber replaceable tips for 92 81 02, anti-magnetic, acid resistant, ESD	straight	smooth	0.40 mm	0.60 mm
	92 81 03	5 1/8"	9/16"	11/16"	premium stainless steel with plastic and carbon fiber replaceable tips, 80% anti-magnetic, acid resistant, ESD	60° angled	smooth	0.40 mm	0.70 mm
	92 89 03	1 1/2"	9/16"	1/8"	plastic and carbon fiber replaceable tips for 92 81 03, anti-magnetic, acid resistant, ESD	60° angled	smooth	0.40 mm	0.70 mm
	92 81 05	5 1/8"	3/8"	11/16"	premium stainless steel with plastic and carbon fiber replaceable tips, 80% anti-magnetic, acid resistant, ESD	straight	smooth	0.70 mm	0.60 mm
	92 89 05	1 1/2"	5/16"	1/8"	plastic and carbon fiber replaceable tips for 92 81 05, anti-magnetic, acid resistant, ESD	straight	smooth	0.70 mm	0.60 mm

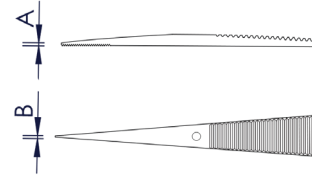
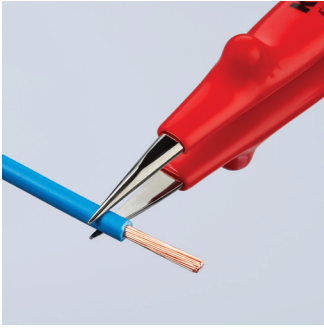
- > Stainless steel offers corrosion resistance
- > 80% anti-magnetic (20% magnetic due to weld during manufacturing)
- > Pointed tips offer precise gripping of fine components
- > 92 27 61 and 92 27 62 are 1000V insulated
- > ESD handle versions discharge electrostatic energy through the handles in a gradual and controlled manner
- > 92 21 02 ESD and 92 28 72 ESD (Dissipative $10^4/10^9$ OHM regarding DIN EN 61340-5-1)



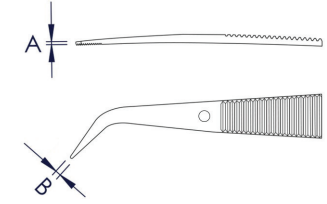
92 21 02 ESD, 92 22 04,
92 22 13 and 92 28 72 ESD



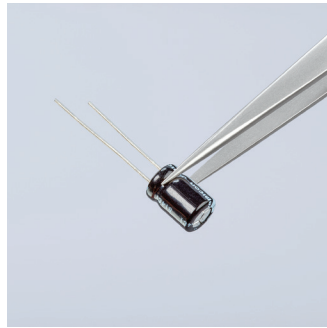
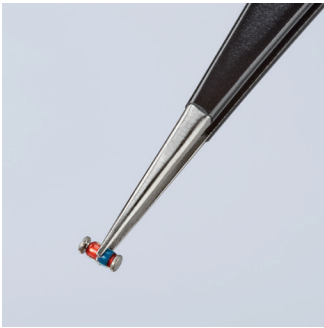
92 27 61 and 92 27 62



92 22 35



92 34 36



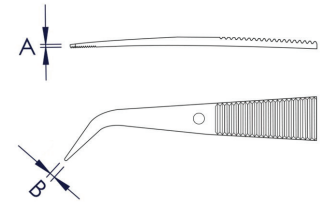
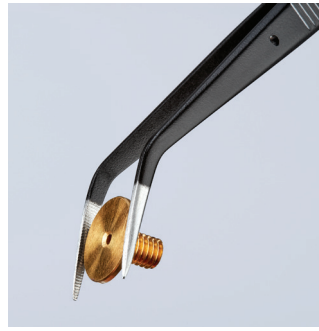
	Product Number	Length	Width	Height	Finish	Style	Gripping Surface	Tip (A)	Tip (B)
	92 21 02 ESD	5"	1/2"	1/2"	stainless steel, 80% anti-magnetic, acid resistant, ESD	straight	smooth	0.30 mm	0.50 mm
	92 22 04	5"	1/2"	3/8"	stainless steel, 80% anti-magnetic, acid resistant	straight	smooth	0.30 mm	0.50 mm
	92 22 13	5 1/8"	7/16"	9/16"	stainless steel, 80% anti-magnetic, acid resistant	straight	smooth	0.40 mm	0.50 mm
	92 22 35	6"	5/16"	11/16"	stainless steel, 80% anti-magnetic, acid resistant	straight	serrated	0.50 mm	0.50 mm
	92 27 61	5"	7/16"	1 3/8"	stainless steel, 80% anti-magnetic, acid resistant, 1000V VDE	straight	smooth	0.50 mm	0.50 mm
	92 27 62	6"	5/16"	1 9/16"	stainless steel, 80% anti-magnetic, acid resistant, 1000V VDE	straight	serrated	1.00 mm	1.30 mm
	92 28 72 ESD	5 1/8"	7/16"	9/16"	stainless steel, 80% anti-magnetic, acid resistant, ESD	straight	smooth	0.40 mm	0.50 mm
	92 34 36	6"	5/16"	11/16"	stainless steel, 80% anti-magnetic, acid resistant	25° angled	serrated	0.50 mm	0.50 mm

Gripping Tweezers

Pointed tips, steel

92

- > Economical choice
- > 100% magnetic
- > Pointed tips offer precise gripping of fine components
- > Black painted finish



92 34 27

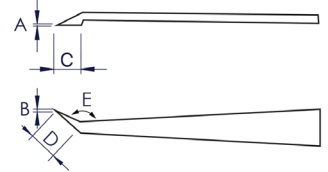
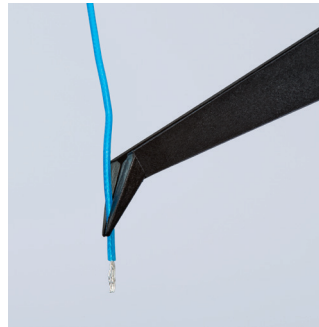
	Product Number	Length	Width	Height	Finish	Style	Gripping Surface	Tip (A)	Tip (B)
	92 34 37	6"	5/16"	9/16"	steel, magnetic, acid resistant	25° angled	serrated	0.80 mm	0.80 mm

Gripping Tweezers

Pointed tips, plastic

92

- > Plastic tweezers are made from carbon reinforced plastic
- > High temperature and excellent chemical resistance
- > 100% anti-magnetic
- > Pointed tips offer precise gripping of fine components
- > ESD handle discharges electrostatic energy through the handles in a gradual and controlled manner (Conductive 10²/10³ OHM regarding DIN EN 61340-5-1)



92 09 03 ESD

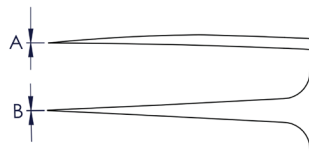
	Product Number	Length	Width	Height	Finish	Style	Gripping Surface	Tip (A)	Tip (B)	Tip (C)	Tip (D)	Angle (E)
	92 09 03 ESD	4 3/8"	7/16"	9/16"	carbon reinforced plastic, anti-magnetic, acid resistant, ESD	angled	smooth	0.50 mm	0.40 mm	5.80 mm	8.50 mm	45°

Gripping Tweezers

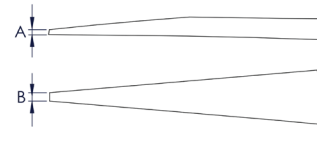
Needle-point tips, titanium

92

- > Titanium is very lightweight and has excellent corrosion resistance
- > Extremely heat resistant (melting point is 3051° F, 1677° C)
- > 100% anti-magnetic and anti-bacterial
- > Needle-point tips offer extra-fine gripping on very small components and wire



92 23 01



92 23 05

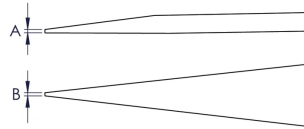
	Product Number	Length	Width	Height	Finish	Style	Gripping Surface	Tip (A)	Tip (B)
	92 23 01	4 3/8"	3/8"	7/16"	titanium, anti-magnetic, acid resistant	straight	smooth	0.09 mm	0.15 mm
	92 23 05	4 3/4"	3/8"	7/16"	titanium, anti-magnetic, acid resistant	straight	smooth	0.25 mm	0.25 mm

Gripping Tweezers

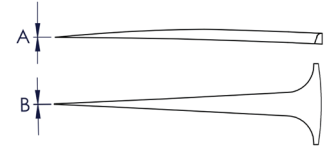
Needle-point tips, premium stainless steel

92

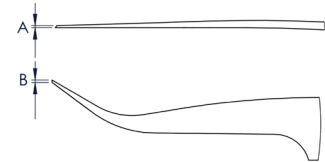
- > Premium stainless steel resists most chemicals, salts and acids
- > Used in the chemical, pharmaceutical and electrical industries
- > 80% anti-magnetic (20% magnetic due to weld during manufacturing)
- > Needle-point tips offer extra-fine gripping on very small components and wire
- > 92 91 02 and 92 91 03 have a cross over design



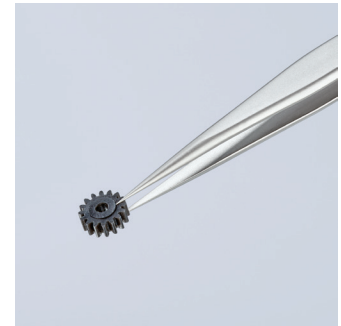
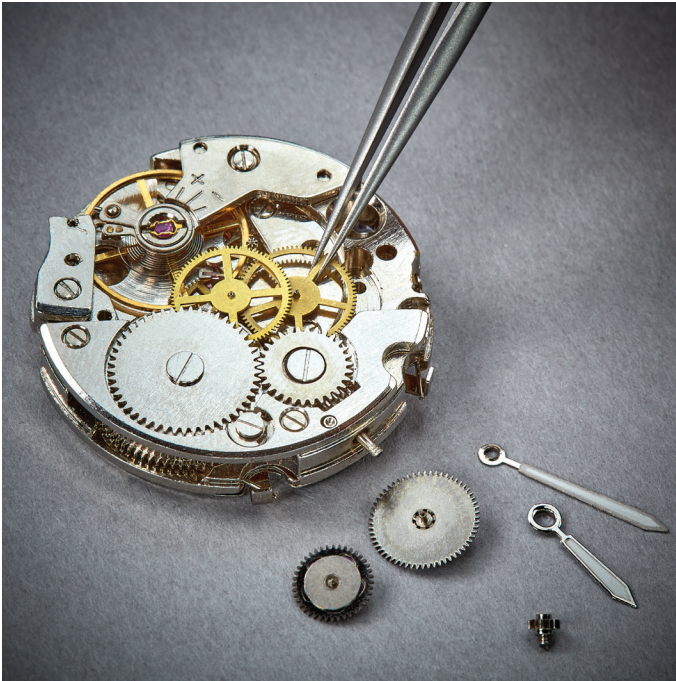
92 21 02, 92 21 04,
92 21 05 and 92 91 02



92 21 03 and 92 21 06

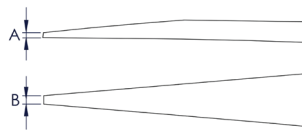
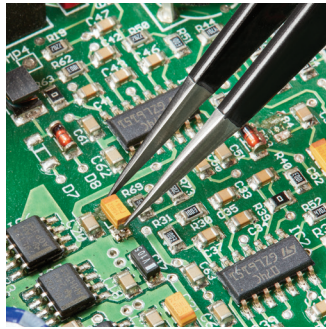


92 31 01 and 92 91 03

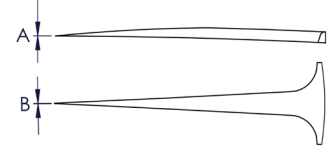


	Product Number	Length	Width	Height	Finish	Style	Gripping Surface	Tip (A)	Tip (B)
	92 21 02	4 3/8"	3/8"	7/16"	premium stainless steel, 80% anti-magnetic, acid resistant	straight	smooth	0.12 mm	0.18 mm
	92 21 03	4 3/8"	3/8"	7/16"	premium stainless steel, 80% anti-magnetic, acid resistant	straight	smooth	0.06 mm	0.12 mm
	92 21 04	3 1/2"	5/16"	3/8"	premium stainless steel, 80% anti-magnetic, acid resistant	straight	smooth	0.09 mm	0.15 mm
	92 21 05	2 3/4"	1/4"	5/16"	premium stainless steel, 80% anti-magnetic, acid resistant	straight	smooth	0.10 mm	0.20 mm
	92 21 06	3 1/8"	1/4"	5/16"	premium stainless steel, 80% anti-magnetic, acid resistant	straight	smooth	0.08 mm	0.13 mm
	92 31 01	4 3/4"	3/8"	7/16"	premium stainless steel, 80% anti-magnetic, acid resistant	45° angled	smooth	0.09 mm	0.16 mm
	92 91 02	4 3/4"	3/8"	7/16"	premium stainless steel, 80% anti-magnetic, acid resistant	straight	smooth	0.12 mm	0.20 mm
	92 91 03	4 1/2"	3/8"	7/16"	premium stainless steel, 80% anti-magnetic, acid resistant	45° angled	smooth	0.22 mm	0.25 mm

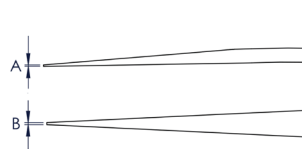
- > Stainless steel offers corrosion resistance
- > 80% anti-magnetic (20% magnetic dues to weld during manufacturing)
- > Needle-point tips offer extra-fine gripping on very small components and wire
- > ESD handles discharge electrostatic energy through the handles in a gradual and controlled manner (Dissipative $10^4/10^9$ OHM regarding DIN EN 61340-5-1)



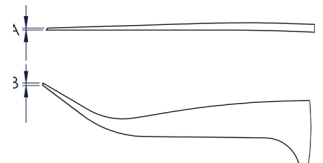
92 21 01 ESD, 92 21 07, 92 22 06,
92 22 07, 92 28 69 ESD and
92 28 70 ESD



92 22 12 and 92 28 71 ESD



92 21 03 ESD and 92 21 08



92 32 29 and 92 38 75 ESD

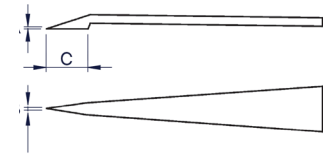
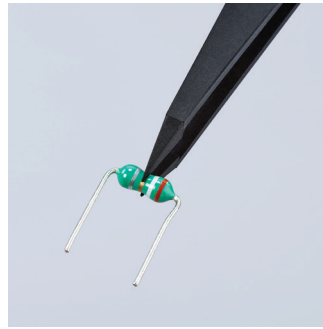
	Product Number	Length	Width	Height	Finish	Style	Gripping Surface	Tip (A)	Tip (B)
	92 21 01 ESD	5"	7/16"	1/2"	stainless steel, 80% anti-magnetic, acid resistant, ESD	straight	smooth	0.20 mm	0.25 mm
	92 21 03 ESD	5 1/2"	5/16"	9/16"	stainless steel, 80% anti-magnetic, acid resistant, ESD	straight	smooth	0.20 mm	0.30 mm
	92 21 07	4 3/8"	3/8"	3/8"	stainless steel, 80% anti-magnetic, acid resistant	straight	smooth	0.20 mm	0.25 mm
	92 21 08	5 1/2"	5/16"	1/2"	stainless steel, 80% anti-magnetic, acid resistant	straight	smooth	0.20 mm	0.30 mm
	92 22 06	4 3/4"	3/8"	7/16"	stainless steel, 80% anti-magnetic, acid resistant	straight	smooth	0.25 mm	0.25 mm
	92 22 07	5"	7/16"	3/8"	stainless steel, 80% anti-magnetic, acid resistant	straight	smooth	0.20 mm	0.25 mm
	92 22 12	4 3/8"	3/8"	7/16"	stainless steel, 80% anti-magnetic, acid resistant	straight	smooth	0.20 mm	0.20 mm
	92 28 69 ESD	4 3/4"	3/8"	1/2"	stainless steel, 80% anti-magnetic, acid resistant, ESD	straight	smooth	0.25 mm	0.25 mm
	92 28 70 ESD	4 3/8"	3/8"	1/2"	stainless steel, 80% anti-magnetic, acid resistant, ESD	straight	smooth	0.20 mm	0.25 mm
	92 28 71 ESD	4 3/8"	3/8"	1/2"	stainless steel, 80% anti-magnetic, acid resistant, ESD	straight	smooth	0.20 mm	0.20 mm
	92 32 29	4 5/8"	3/8"	3/8"	stainless steel, 80% anti-magnetic, acid resistant	35° angled	smooth	0.25 mm	0.30 mm
	92 38 75 ESD	4 5/8"	3/8"	3/8"	stainless steel, 80% anti-magnetic, acid resistant, ESD	35° angled	smooth	0.25 mm	0.30 mm

Gripping Tweezers

Needle-point tips, plastic

92

- > Plastic tweezers are made from carbon reinforced plastic
- > High temperature and excellent chemical resistance
- > 100% anti-magnetic
- > Needle-point tips offer extra-fine gripping on very small components and wire
- > ESD handle discharges electrostatic energy through the handles in a gradual and controlled manner (Conductive $10^2/10^3$ OHM regarding DIN EN 61340-5-1)



92 09 02 ESD

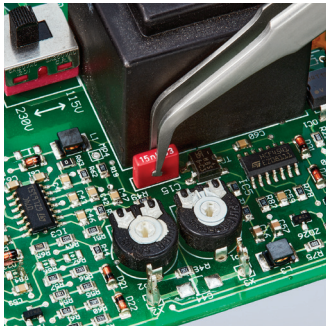
	Product Number	Length	Width	Height	Finish	Style	Gripping Surface	Tip (A)	Tip (B)	Tip (C)
	92 09 02 ESD	4 1/2"	7/16"	9/16"	carbon reinforced plastic, anti-magnetic, acid resistant, ESD	straight	smooth	0.50 mm	0.30 mm	9.50 mm

Positioning Tweezers

Positioning tips, premium stainless steel

92

- > Premium stainless steel resists most chemicals, salts and acids
- > Used in the chemical, pharmaceutical and electrical industries
- > 80% anti-magnetic (20% magnetic due to weld during manufacturing)
- > Positioning tips offer exact positioning of components when working on surface mounted devices (SMD)



92 01 01



92 01 04



92 01 02



92 02 54



92 01 03

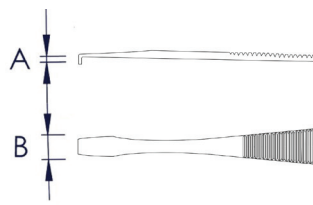
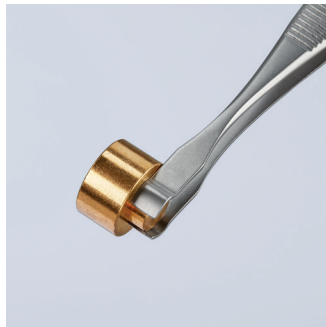
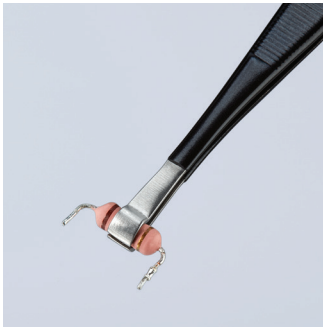
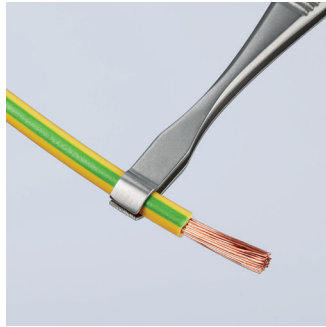
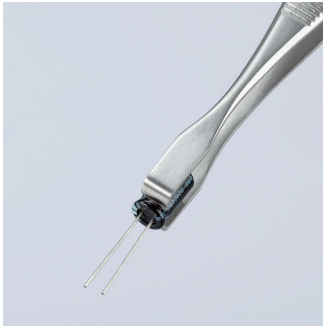
	Product Number	Length	Width	Height	Finish	Style	Gripping Surface	Tip (A)	Tip (B)
	92 01 01	4 1/2"	3/8"	7/16"	premium stainless steel, 80% anti-magnetic, acid resistant, SMD	45° angled	smooth	0.33 mm	1.60 mm
	92 01 02	4 3/4"	3/8"	7/16"	premium stainless steel, 80% anti-magnetic, acid resistant, SMD	double 35° angled	smooth	0.15 mm	1.50 mm
	92 01 03	4 3/4"	3/8"	7/16"	premium stainless steel, 80% anti-magnetic, acid resistant, SMD	straight	smooth	0.30 mm	1.50 mm
	92 01 04	4 1/2"	3/8"	7/16"	premium stainless steel, 80% anti-magnetic, acid resistant, SMD	45° angled	smooth	0.50 mm	1.50 mm
	92 02 54	4 1/2"	3/8"	7/16"	premium stainless steel, 80% anti-magnetic, acid resistant, SMD	30° angled	smooth	0.60 mm	0.90 mm

Positioning Tweezers

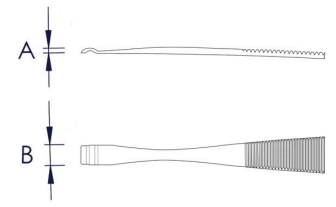
Stainless steel

92

- > Stainless steel offers corrosion resistance
- > 80% anti-magnetic (20% magnetic due to weld during manufacturing)
- > ESD handles discharge electrostatic energy through the handles in a gradual and controlled manner
- > Positioning tips offer exact positioning of components when working on surface mounted devices (SMD) or through hole technology (THT)



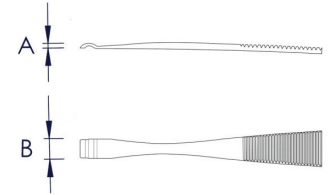
92 01 07



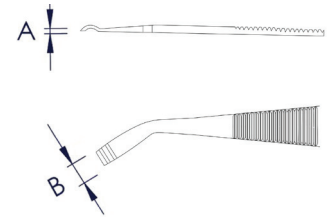
92 08 79 ESD



92 08 78 ESD



92 11 02 and 92 11 03



92 16 01 ESD and 92 16 02 ESD

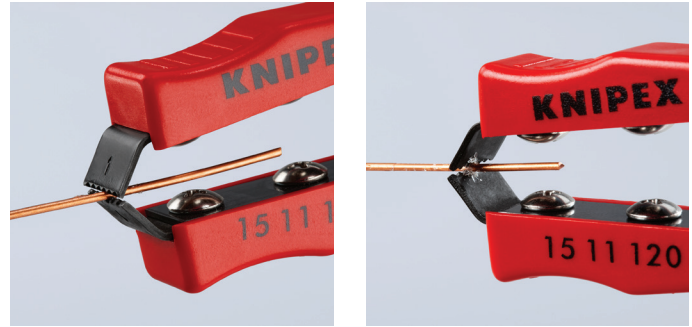
	Product Number	Length	Width	Height	Finish	Style	Gripping Surface	Tip (A)	Tip (B)
	92 01 07	5 5/8"	7/16"	11/16"	stainless steel, 80% anti-magnetic, acid resistant	90° angled	smooth	3.50 mm	5.80 mm
	92 08 78 ESD	4 5/8"	3/8"	1/2"	stainless steel, 80% anti-magnetic, acid resistant, ESD, SMD	45° angled	smooth	0.50 mm	2.50 mm
	92 08 79 ESD	4 3/4"	3/8"	9/16"	stainless steel, 80% anti-magnetic, acid resistant, ESD	straight	smooth	2.50 mm	4.00 mm
	92 11 02	5 3/4"	7/16"	5/8"	stainless steel, 80% anti-magnetic, acid resistant	straight	smooth	2.80 mm	5.50 mm
	92 11 03	4 3/4"	3/8"	9/16"	stainless steel, 80% anti-magnetic, acid resistant	straight	smooth	2.50 mm	4.00 mm
	92 16 01 ESD	4 3/4"	3/8"	9/16"	stainless steel, 80% anti-magnetic, acid resistant, ESD	35° angled	smooth	1.50 mm	3.80 mm
	92 16 02 ESD	4 3/4"	3/8"	9/16"	stainless steel, 80% anti-magnetic, acid resistant, ESD	35° angled	smooth	2.50 mm	4.00 mm






Stripping Tweezers

Stripping tips, steel and plastic

15

- > Magnetic tips
- > Stripping tips are replaceable depending on gauge of wire to be stripped
- > Tweezer body made from spring steel, oil-hardened
- > Plastic handles



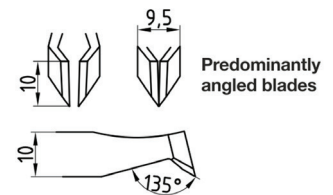
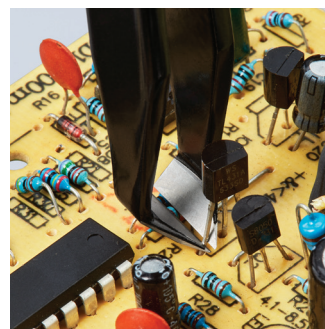
	Product Number	Length	Width	Height	Finish	Gripping Surface
	15 11 120	5"	3/8"	1 9/16"	steel with plastic handles, magnetic, acid resistant	cutting edge
	15 19 005	3/4"	3/8"	3/16"	steel spare blades for 15 11 120, 0.5 mm diameter, magnetic, acid resistant	cutting edge
	15 19 006	3/4"	3/8"	3/16"	steel spare blades for 15 11 120, 0.6 mm diameter, magnetic, acid resistant	cutting edge
	15 19 008	3/4"	3/8"	3/16"	steel spare blades for 15 11 120, 0.8 mm diameter, magnetic, acid resistant	cutting edge
	15 19 010	3/4"	3/8"	3/16"	steel spare blades for 15 11 120, 1.0 mm diameter, magnetic, acid resistant	cutting edge

Cutting Tweezers



Cutting tips, stainless steel

92

- > Stainless steel offers corrosion resistance
- > 100% magnetic
- > Cutting edges designed for cutting fine components
- > ESD handle discharges electrostatic energy through the handles in a gradual and controlled manner (dissipative $10^4/10^9$ OHM regarding DIN EN 61340-5-1)



92 11 01 and 92 11 01 ESD

	Product Number	Length	Width	Height	Finish	Style	Gripping Surface
	92 11 01	4 1/2"	7/16"	9/16"	stainless steel, magnetic, acid resistant	angled	cutting edge
	92 11 01 ESD	4 1/2"	7/16"	11/16"	stainless steel, magnetic, acid resistant, ESD	angled	cutting edge

- > Each set includes a durable polyester tool roll
- > Each set contains (5) of our most popular tweezers



92 00 01 ESD
ESD Stainless steel



92 00 02
Premium Stainless steel



92 00 03
SMD Stainless steel



92 00 04
1000V Stainless steel



92 00 05 ESD
ESD Plastic

Product Number	Description	Gripping Surface	Contents
92 00 01 ESD	6 parts, contains 5 stainless steel ESD tweezers; tool roll made of hard-wearing polyester fabric, 7 compartments	smooth	92 28 69 ESD / 92 58 74 ESD / 92 28 70 ESD / 92 28 71 ESD / 92 38 75 ESD
92 00 02	6 parts, contains 5 premium stainless steel tweezers; tool roll made of hard-wearing polyester fabric, 7 compartments	smooth	92 21 01 / 92 51 01 / 92 21 02 / 92 21 03 / 92 31 01
92 00 03	6 parts, contains 5 premium stainless steel SMD tweezers; tool roll made of hard-wearing polyester fabric, 7 compartments	smooth	92 01 01 / 92 01 02 / 92 01 03 / 92 01 04 / 92 02 54
92 00 04	6 parts, contains 5 stainless steel 1000V tweezers; tool roll made of hard-wearing polyester fabric, 5 compartments	smooth / serrated	92 47 01 / 92 27 61 / 92 27 62 / 92 37 64 / 92 67 63
92 00 05 ESD	6 parts, contains 5 plastic ESD tweezers; tool roll made of hard-wearing polyester fabric, 7 compartments	smooth	92 09 01 ESD / 92 09 02 ESD / 92 09 03 ESD / 92 09 04 ESD / 92 09 05 ESD

GRIPPING TIPS

Blunt Tip								
Product Number	Tip Type	Material Type	Length	Width	Height	Finish	Style	Gripping Surface
92 01 05	blunt	premium stainless steel	4 3/4"	3/8"	1/2"	premium stainless steel, 80% anti-magnetic, acid resistant	straight	smooth
92 01 06	blunt	premium stainless steel	4 3/4"	3/8"	11/16"	premium stainless steel, 80% anti-magnetic, acid resistant	30° angled	smooth
92 21 11 ESD	blunt	premium stainless steel	5"	5/8"	5/8"	premium stainless steel, rubber ESD handles	straight	smooth
92 51 01	blunt	premium stainless steel	4 3/4"	3/8"	7/16"	premium stainless steel, 80% anti-magnetic, acid resistant	straight	smooth
92 51 02	blunt	premium stainless steel	2 3/4"	5/16"	1/4"	premium stainless steel, 80% anti-magnetic, acid resistant	straight	smooth
92 81 01	blunt	premium stainless steel	5 1/8"	3/8"	11/16"	premium stainless steel with plastic and carbon fiber replaceable tips, 80% anti-magnetic, acid resistant, ESD	straight	smooth
92 89 01	blunt	plastic and carbon fiber	1 1/2"	5/16"	1/8"	plastic and carbon fiber replaceable tips for 92 81 01, anti-magnetic, acid resistant, ESD	straight	smooth
92 81 04	blunt	premium stainless steel	5 1/8"	3/8"	11/16"	premium stainless steel with plastic and carbon fiber replaceable tips, 80% anti-magnetic, acid resistant, ESD	straight	smooth
92 89 04	blunt	plastic and carbon fiber	1 1/2"	5/16"	3/16"	plastic and carbon fiber replaceable tips for 92 81 04, anti-magnetic, acid resistant, ESD	straight	smooth
92 91 01	blunt	premium stainless steel	4 3/4"	3/8"	7/16"	premium stainless steel, 80% anti-magnetic, acid resistant	straight	smooth
92 37 64	blunt	stainless steel	6"	9/16"	1 9/16"	stainless steel, 80% anti-magnetic, acid resistant 1000V VDE	30° angled	serrated
92 47 01	blunt	stainless steel	5 3/4"	5/8"	1 1/2"	stainless steel, 80% anti-magnetic, acid resistant 1000V VDE	30° angled	serrated
92 52 23	blunt	stainless steel	4 5/8"	3/8"	3/8"	stainless steel, 80% anti-magnetic, acid resistant	straight	smooth
92 58 74 ESD	blunt	stainless steel	4 5/8"	3/8"	1/2"	stainless steel, 80% anti-magnetic, acid resistant, ESD	straight	smooth
92 61 01	blunt	stainless steel	7 7/8"	1/2"	13/16"	stainless steel, 80% anti-magnetic, acid resistant	straight	serrated
92 61 02	blunt	stainless steel	11 3/4"	9/16"	7/8"	stainless steel, 80% anti-magnetic, acid resistant	straight	serrated
92 64 43	blunt	stainless steel	4 3/4"	3/8"	9/16"	stainless steel, 80% anti-magnetic, acid resistant	straight	serrated
92 67 63	blunt	stainless steel	5 3/4"	7/16"	1 1/2"	stainless steel, 80% anti-magnetic, acid resistant 1000V VDE	straight	serrated
92 72 45	blunt	stainless steel	5 3/4"	7/16"	9/16"	stainless steel, 80% anti-magnetic, acid resistant	straight	serrated
92 78 77 ESD	blunt	stainless steel	5 3/4"	7/16"	11/16"	stainless steel, 80% anti-magnetic, acid resistant, ESD	straight	serrated
92 84 18	blunt	stainless steel	5"	7/16"	11/16"	stainless steel, 80% anti-magnetic, acid resistant	straight	serrated
92 94 91	blunt	stainless steel	6 1/4"	7/16"	1/2"	stainless steel, 80% anti-magnetic, acid resistant	straight	serrated
92 95 89	blunt	stainless steel	6 1/2"	7/16"	13/16"	stainless steel, 80% anti-magnetic, acid resistant	straight	serrated
92 95 90	blunt	stainless steel	6 3/8"	7/16"	13/16"	stainless steel, 80% anti-magnetic, acid resistant	40° angled	serrated
92 69 84	blunt	plastic	5"	1/2"	1 5/16"	plastic, anti-magnetic, acid resistant	straight	serrated
92 09 01 ESD	blunt	plastic	4 1/2"	3/8"	1/2"	carbon reinforced plastic, anti-magnetic, acid resistant, ESD	straight	smooth
92 09 04 ESD	blunt	plastic	4 1/2"	7/16"	9/16"	carbon reinforced plastic, anti-magnetic, acid resistant, ESD	straight	smooth
92 09 05 ESD	blunt	plastic	4 1/2"	7/16"	9/16"	carbon reinforced plastic, anti-magnetic, acid resistant, ESD	straight	smooth
Pointed Tip								
Product Number	Tip Type	Material Type	Length	Width	Height	Finish	Style	Gripping Surface
92 21 01	pointed	premium stainless steel	4 3/4"	3/8"	1/2"	premium stainless steel, acid resistant	straight	smooth
92 21 10 ESD	pointed	premium stainless steel	5"	5/8"	5/8"	premium stainless steel, rubber ESD handles	straight	smooth
92 81 02	pointed	premium stainless steel and plastic	5 1/8"	3/8"	11/16"	premium stainless steel with plastic and carbon fiber replaceable tips, 80% anti-magnetic, acid resistant, ESD	straight	smooth
92 89 02	pointed	plastic	1 1/2"	5/16"	1/8"	plastic and carbon fiber replaceable tips for 92 81 02, anti-magnetic, acid resistant, ESD	straight	smooth
92 81 03	pointed	premium stainless steel and plastic	5 1/8"	9/16"	11/16"	premium stainless steel with plastic and carbon fiber replaceable tips, 80% anti-magnetic, acid resistant, ESD	60° angled	smooth
92 89 03	pointed	plastic	1 1/2"	9/16"	1/8"	plastic and carbon fiber replaceable tips for 92 81 03, anti-magnetic, acid resistant, ESD	60° angled	smooth
92 81 05	pointed	premium stainless steel and plastic	5 1/8"	3/8"	11/16"	premium stainless steel with plastic and carbon fiber replaceable tips, 80% anti-magnetic, acid resistant, ESD	straight	smooth
92 89 05	pointed	plastic	1 1/2"	5/16"	1/8"	plastic and carbon fiber replaceable tips for 92 81 05, anti-magnetic, acid resistant, ESD	straight	smooth
92 21 02 ESD	pointed	stainless steel	5"	1/2"	1/2"	stainless steel, 80% anti-magnetic, acid resistant, ESD	straight	smooth
92 22 04	pointed	stainless steel	5"	1/2"	3/8"	stainless steel, 80% anti-magnetic, acid resistant	straight	smooth
92 22 13	pointed	stainless steel	5 1/8"	7/16"	9/16"	stainless steel, 80% anti-magnetic, acid resistant	straight	smooth
92 22 35	pointed	stainless steel	6"	5/16"	11/16"	stainless steel, 80% anti-magnetic, acid resistant	straight	serrated
92 27 61	pointed	stainless steel	5"	7/16"	1 3/8"	stainless steel, 80% anti-magnetic, acid resistant, 1000V VDE	straight	smooth
92 27 62	pointed	stainless steel	6"	5/16"	1 9/16"	stainless steel, 80% anti-magnetic, acid resistant, 1000V VDE	straight	serrated
92 28 72 ESD	pointed	stainless steel	5 1/8"	7/16"	9/16"	stainless steel, 80% anti-magnetic, acid resistant, ESD	straight	smooth
92 34 36	pointed	stainless steel	6"	5/16"	11/16"	stainless steel, 80% anti-magnetic, acid resistant	25° angled	serrated
92 34 37	pointed	steel	6"	5/16"	9/16"	steel, magnetic, acid resistant	25° angled	serrated
92 09 03 ESD	pointed	plastic	4 3/8"	7/16"	9/16"	carbon reinforced plastic, anti-magnetic, acid resistant, ESD	45° angled	smooth

GRIPPING TIPS CONTINUED

Needle-point Tip								
Product Number	Tip Type	Material Type	Length	Width	Height	Finish	Style	Gripping Surface
92 23 01	needle-point	titanium	4 3/8"	3/8"	7/16"	titanium, anti-magnetic, acid resistant	straight	smooth
92 23 05	needle-point	titanium	4 3/4"	3/8"	7/16"	titanium, anti-magnetic, acid resistant	straight	smooth
92 21 02	needle-point	premium stainless steel	4 3/8"	3/8"	7/16"	premium stainless steel, 80% anti-magnetic, acid resistant	straight	smooth
92 21 03	needle-point	premium stainless steel	4 3/8"	3/8"	7/16"	premium stainless steel, 80% anti-magnetic, acid resistant	straight	smooth
92 21 04	needle-point	premium stainless steel	3 1/2"	5/16"	3/8"	premium stainless steel, 80% anti-magnetic, acid resistant	straight	smooth
92 21 05	needle-point	premium stainless steel	2 3/4"	1/4"	5/16"	premium stainless steel, 80% anti-magnetic, acid resistant	straight	smooth
92 21 06	needle-point	premium stainless steel	3 1/8"	1/4"	5/16"	premium stainless steel, 80% anti-magnetic, acid resistant	straight	smooth
92 21 12 ESD	needle-point	premium stainless steel	4 1/2"	5/8"	5/8"	premium stainless steel, rubber ESD handles	straight	smooth
92 21 13 ESD	needle-point	premium stainless steel	4 1/2"	5/8"	5/8"	premium stainless steel, rubber ESD handles	straight	smooth
92 21 14 ESD	needle-point	premium stainless steel	5 1/4"	5/8"	5/8"	premium stainless steel, rubber ESD handles	straight	smooth
92 31 01	needle-point	premium stainless steel	4 3/4"	3/8"	7/16"	premium stainless steel, 80% anti-magnetic, acid resistant	45° angled	smooth
92 31 10 ESD	needle-point	premium stainless steel	4 3/4"	3/8"	3/8"	premium stainless steel, rubber ESD handles	45° angled	smooth
92 91 02	needle-point	premium stainless steel	4 3/4"	3/8"	7/16"	premium stainless steel, 80% anti-magnetic, acid resistant	straight	smooth
92 91 03	needle-point	premium stainless steel	4 1/2"	3/8"	7/16"	premium stainless steel, 80% anti-magnetic, acid resistant	45° angled	smooth
92 21 01 ESD	needle-point	stainless steel	5"	7/16"	1/2"	stainless steel, 80% anti-magnetic, acid resistant, ESD	straight	smooth
92 21 03 ESD	needle-point	stainless steel	5 1/2"	5/16"	9/16"	stainless steel, 80% anti-magnetic, acid resistant, ESD	straight	smooth
92 21 07	needle-point	stainless steel	4 3/8"	3/8"	3/8"	stainless steel, 80% anti-magnetic, acid resistant	straight	smooth
92 21 08	needle-point	stainless steel	5 1/2"	5/16"	1/2"	stainless steel, 80% anti-magnetic, acid resistant	straight	smooth
92 22 06	needle-point	stainless steel	4 3/4"	3/8"	7/16"	stainless steel, 80% anti-magnetic, acid resistant	straight	smooth
92 22 07	needle-point	stainless steel	5"	7/16"	3/8"	stainless steel, 80% anti-magnetic, acid resistant	straight	smooth
92 22 12	needle-point	stainless steel	4 3/8"	3/8"	7/16"	stainless steel, 80% anti-magnetic, acid resistant	straight	smooth
92 28 69 ESD	needle-point	stainless steel	4 3/4"	3/8"	1/2"	stainless steel, 80% anti-magnetic, acid resistant, ESD	straight	smooth
92 28 70 ESD	needle-point	stainless steel	4 3/8"	3/8"	1/2"	stainless steel, 80% anti-magnetic, acid resistant, ESD	straight	smooth
92 28 71 ESD	needle-point	stainless steel	4 3/8"	3/8"	1/2"	stainless steel, 80% anti-magnetic, acid resistant, ESD	straight	smooth
92 32 29	needle-point	stainless steel	4 5/8"	3/8"	3/8"	stainless steel, 80% anti-magnetic, acid resistant	35° angled	smooth
92 38 75 ESD	needle-point	stainless steel	4 5/8"	3/8"	3/8"	stainless steel, 80% anti-magnetic, acid resistant, ESD	35° angled	smooth
92 09 02 ESD	needle-point	plastic	4 1/2"	7/16"	9/16"	carbon reinforced plastic, anti-magnetic, acid resistant, ESD	straight	smooth

Positioning Tips

Product Number	Tip Type	Material Type	Length	Width	Height	Finish	Style	Gripping Surface
92 01 01	positioning	premium stainless steel	4 1/2"	3/8"	7/16"	premium stainless steel, 80% anti-magnetic, acid resistant, SMD	45° angled	smooth
92 01 02	positioning	premium stainless steel	4 3/4"	3/8"	7/16"	premium stainless steel, 80% anti-magnetic, acid resistant, SMD	double 35° angled	smooth
92 01 03	positioning	premium stainless steel	4 3/4"	3/8"	7/16"	premium stainless steel, 80% anti-magnetic, acid resistant, SMD	straight	smooth
92 01 04	positioning	premium stainless steel	4 1/2"	3/8"	7/16"	premium stainless steel, 80% anti-magnetic, acid resistant, SMD	45° angled	smooth
92 02 54	positioning	premium stainless steel	4 1/2"	3/8"	7/16"	premium stainless steel, 80% anti-magnetic, acid resistant, SMD	30° angled	smooth
92 01 07	positioning	stainless steel	5 5/8"	7/16"	11/16"	stainless steel, 80% anti-magnetic, acid resistant	90° angled	smooth
92 08 78 ESD	positioning	stainless steel	4 5/8"	3/8"	1/2"	stainless steel, 80% anti-magnetic, acid resistant, ESD, SMD	45° angled	smooth
92 08 79 ESD	positioning	stainless steel	4 3/4"	3/8"	9/16"	stainless steel, 80% anti-magnetic, acid resistant, ESD	straight	smooth
92 11 02	positioning	stainless steel	5 3/4"	7/16"	5/8"	stainless steel, 80% anti-magnetic, acid resistant	straight	smooth
92 11 03	positioning	stainless steel	4 3/4"	3/8"	9/16"	stainless steel, 80% anti-magnetic, acid resistant	straight	smooth
92 16 01 ESD	positioning	stainless steel	4 3/4"	3/8"	9/16"	stainless steel, 80% anti-magnetic, acid resistant, ESD	35° angled	smooth
92 16 02 ESD	positioning	stainless steel	4 3/4"	3/8"	9/16"	stainless steel, 80% anti-magnetic, acid resistant, ESD	35° angled	smooth

Stripping Tips

Product Number	Tip Type	Material Type	Length	Width inch	Height inch	Finish	Gripping Surface
15 11 120	stripping	steel and plastic	5"	3/8"	1 9/16"	steel with plastic handles, magnetic, acid resistant	cutting edge
15 19 005	stripping	steel	3/4"	3/8"	3/16"	steel spare blades for 15 11 120, 0.5 mm diameter, magnetic, acid resistant	cutting edge
15 19 006	stripping	steel	3/4"	3/8"	3/16"	steel spare blades for 15 11 120, 0.6 mm diameter, magnetic, acid resistant	cutting edge
15 19 008	stripping	steel	3/4"	3/8"	3/16"	steel spare blades for 15 11 120, 0.8 mm diameter, magnetic, acid resistant	cutting edge
15 19 010	stripping	steel	3/4"	3/8"	3/16"	steel spare blades for 15 11 120, 1.0 mm diameter, magnetic, acid resistant	cutting edge

Cutting Tips

Product Number	Tip Type	Material Type	Length	Width inch	Height inch	Finish	Style	Gripping Surface
92 11 01	cutting	stainless steel	4 1/2"	7/16"	9/16"	stainless steel, magnetic, acid resistant	angled	cutting edge
92 11 01 ESD	cutting	stainless steel	4 1/2"	7/16"	11/16"	stainless steel, magnetic, acid resistant, ESD	angled	cutting edge

Meet KNIPEX

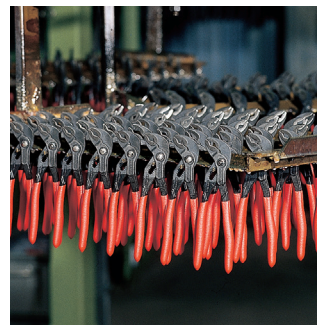
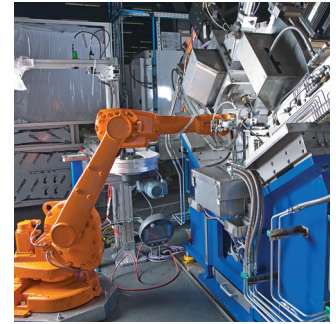


KNIPEX concentrates its efforts on being the best pliers manufacturer in terms of quality, innovation and efficiency and its pliers satisfy the highest expectations in terms of performance, ergonomics and service life.

- > Largest manufacturer of professional quality pliers worldwide
- > Over 135 years of experience
- > Company is family owned by fourth generation
- > All manufacturing processes, including forging, design and packaging take place in our German facility
- > We strive for continuous innovation for new and existing products, setting new benchmarks in the industry
- > To make the best pliers, we use the best – high-quality steel, self-developed processes and machinery, quality testing and skilled personnel

Products

- > Bolt cutters
- > Cable and wire rope shears
- > Carpenters' pincers
- > Combination pliers
- > Concreters' nippers
- > Crimping pliers
- > Cutting pliers
- > Diagonal cutters
- > Dismantling tools
- > Electricians' pliers
- > Electronics pliers
- > Gripping pliers
- > Mechanics' pliers
- > Pipe cutters
- > Pipe wrenches
- > Precision tweezers
- > Punch pliers
- > Retaining ring pliers
- > Spare parts
- > Tool kits
- > Water pump pliers
- > Wire strippers



Always comply with the current valid regulations and observe the SAFETY INSTRUCTIONS given below:

- > Insulated tools must be transported in a manner that will prevent any damage to the insulation.
- > Check before every use whether the insulation is damaged in anyway. Defective tools must be discarded.
- > Always keep your insulated tools clean and dry.
- > Wear protective goggles when working with cutting tools or working overhead.
- > Always wear goggles or a facial mask when working on live equipment.
- > Make sure the workplace is clean and orderly, particularly when you are working on live installations.
- > Wear protective clothing and use SAFETY equipment (e.g. insulating gloves, insulating mats, protective covers) especially in confined working spaces.
- > Use only a tool with suitable dimensions to prevent slipping on the workpiece and unintentional contact with non-insulated parts.
- > Make sure that detached parts or cut-off ends of conductors do not fall onto live parts.
- > For more information on insulated tools, visit www.knipex-tools/insulated

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