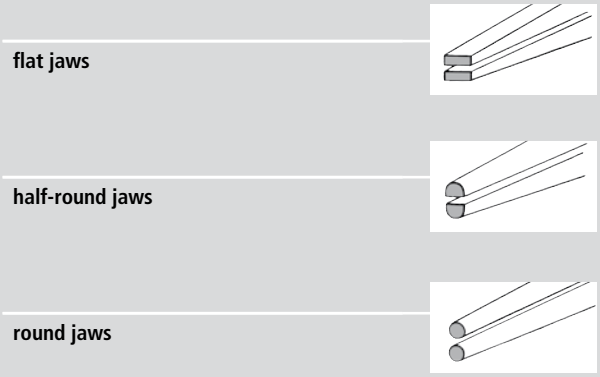
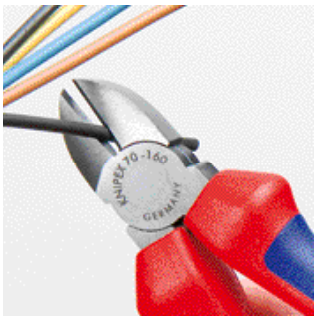
GENERAL CATALOG 2013

PLIERS ABC TECHNICAL BASICS

BASIC SHAPES OF THE JAWS

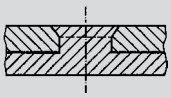




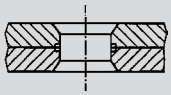
Cutting Pliers
for cutting or nipping (diagonal, center and end cutters, carpenters' pincers etc.)

Gripping Pliers
(flat-, long-nose and water pump pliers etc.)

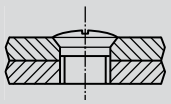
JOINT CONNECTIONS



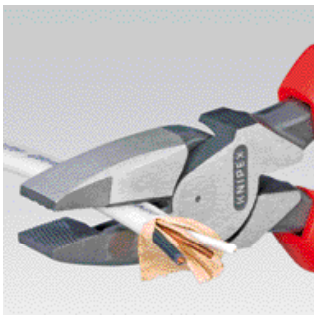
Forged-in joint axle
The rivet is part of one handle (forged from one piece)
- high stability to withstand highest strain
- long service life



Joint with inserted rivet
A proved, sturdy and precise rivet connection for all standard pliers.



Bolted joint
For particularly demanding requirements in terms of precision and smooth operation, e.g. in circlip pliers and cable shears (even the finest multi-stranded conductors have to be cut cleanly).

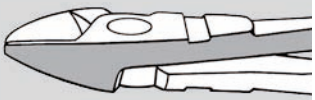


Combined Pliers
for cutting and gripping (combination, stork beak and radio pliers etc.)

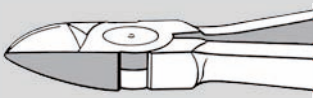
Special Pliers
for special applications, e.g. notching or punching different types of materials (sheet-metal nibbler, tile nibbling pincers etc.)

TYPES OF JOINTS

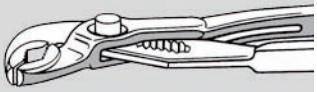
Lap joint
The two pliers halves lie on top of each other but are not milled out.

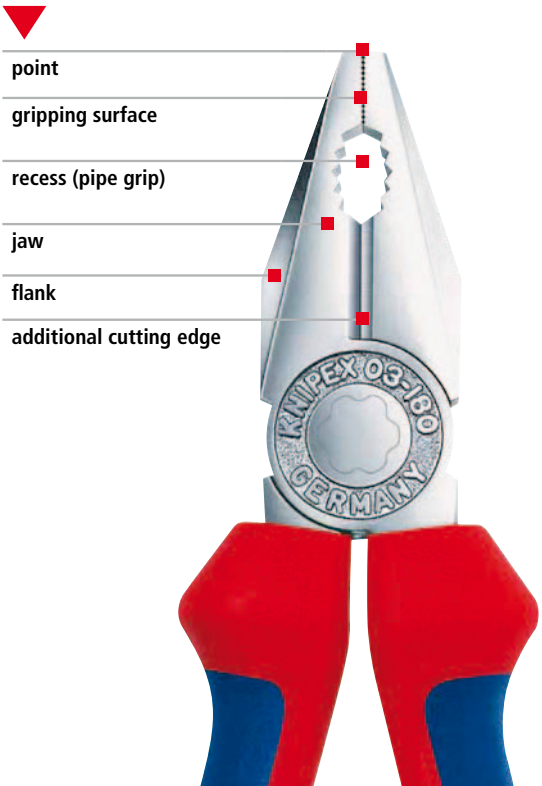


Single joint
Half the thickness in each pliers handle is milled away in the joint area so that both handles can be laid into each other.



Box joint
One handle on the pliers is slit. The other handle is pushed through this slot. This joint connection can withstand a high level of load and strain because the joint bolt is supported on both sides and the inside handle is guided on both sides.





CUTTING CAPACITIES

The maximum values indicated always stay for the performance limit under the most favourable cutting conditions, when the wire is placed as near as possible to the joint.

Article no.	Length in	Length mm	ø in	ø in	ø in	ø in	page
61 0	8	200	3/64 - 15/64	5/32	9/64	1/8	62
62 12	4 3/4	120	1/64 - 3/64	1/32			62
64 0	4 1/2	115	5/64	3/64	1/64		64
64 11	4 1/2	115	1/16	1/32			64
64 12	4 1/2	115	5/64	1/32	1/64		64
64 22	4 1/2	115	1/32				64
64 32	4 3/4	120	1/16	3/64	1/64		64
64 42	4 1/2	115	1/16	3/64	1/64		64
64 52	4 1/2	115	3/64				64
64 62	4 3/4	120	1/64				64 / 66
64 72	4 3/4	120	1/16				64
67 0	5 1/2	140	5/32	1/8	5/64	1/16	67
	6 1/4	160	3/16	1/8	7/64	5/64	67
	8	200	13/64	5/32	1/8	7/64	67
68 01	6 1/4	160	5/32	7/64	3/32		67
	7 1/4	180	5/32	1/8	3/32		67
	8	200	5/32	9/64	7/64		67
69 0	5 3/25	130	1/64 - 5/64	3/64	3/64	1/32	67
70	4 1/4	110	1/8	5/64	3/64		69
	5	125	1/8	3/32	1/16		69
	5 1/2	140	5/32	3/32	5/64		69
	6 1/4	160	5/32	7/64	5/64		69
	7 1/4	180	5/32	1/8	3/32		69
71 ..	8	200	1/4	13/64	5/32	9/64	70
73 0.	6 1/4	160	3/16	5/32	7/64		75
73 71	7 1/4	180	7/32	3/16	1/8	1/8	79
74 0.	5 1/2	140		1/8	5/64	1/16	76
	6 1/4	160		1/8	3/32	5/64	76
	7 1/4	180		5/32	7/64	3/32	76
	8	200		11/64	1/8	3/32	76
	10	250		3/16	9/64	1/8	76
74 91	10	250	13/64	13/64	5/32	9/64	79

Article no.	Length in	Length mm	ø in	ø in	ø in	ø in	page
75 02	5	125	1/64 - 3/64	3/64	1/64	1/64	80
75 12	5	125	1/64 - 3/64	3/64	1/64	1/64	80
75 22	5	125	1/64 - 3/64	2/64	1/64	1/64	80
75 52	5	125	1/64 - 3/64	1/64	1/64		80
76 01	5	125	1/64 - 1/8	3/32	1/16	1/64	81
77 01/02	4 1/2	115	1/64 - 1/16	3/64	1/64		82 /84
	5 1/4	130	1/64 - 5/64	1/16	1/32		82
77 12	4 1/2	115	1/64 - 1/16	3/64	1/64		82
77 22	4 1/2	115	1/64 - 3/64	3/64			82 / 84
	5 1/4	130	1/64 - 5/64	1/16			82
77 42	4 1/2	115	1/64 - 3/64	1/32			82 / 84
	5 1/4	130	1/64 - 1/16	3/64			82
77 72	4 1/2	115	1/64 - 1/32				82
78 03	5	125	1/64 - 1/16	3/64			86
78 23	5	125	1/64 - 3/64	1/64			86
78 31/41	5	125	1/64 - 3/64				86
78 61/71	5	125	1/64 - 1/16	3/64	1/64		86
79 02	4 3/4	120	1/64 - 1/16	3/64	1/64		88 / 90
79 02	5	125	1/64 - 5/64	3/64	1/32		88 / 90
79 12	5	125	1/64 - 5/64	3/64	3/64	1/64	88 / 90
79 22	4 3/4	120	1/64 - 3/64	1/32			88 / 90
79 22	5	125	1/64 - 5/64	3/64			88 / 90
79 32	5	125	1/64 - 1/16	3/64	1/64		88 / 90
79 42	5	125	1/64 - 1/16	1/32			88 / 90
99 0	8	200		5/64	1/16		60
	8 3/4	220		3/32	1/16		60
	10	250		3/32	1/16		60
	11	280		7/64	5/64		60
	12	300		1/8	5/64		60
99 1	10	250		1/8	5/64		61
	12	300		5/32	5/64		61

SYMBOLS

	flat jaws
	half-round jaws
	round jaws
	flat and pointed jaws
	box joint
	bolted joint
	smooth gripping surfaces
	serrated gripping surfaces
	cross-hatched, knurled gripping surfaces
	with opening spring

	with lead catcher
	angle

	centre cutter
	cutting edges with bevel
	cutting edges with small bevel
	cutting edges with very small bevel
	cutting edges without bevel

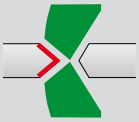
	electrostatic discharging, dissipative
	electronics
	VDE tested, also in conformance to GPSG (Equipment and Product Safety Act)
1000 V	insulated according to IEC 60900 / ASTM F1505, usable up to 1000 V AC/1500 V DC
1000 V	insulated according to DIN VDE 0680/1, suitable for the application up to 1000 V AC / 1500 V DC
CE	conforms to a European directive
	mechanically tested in accordance with the equipment and product safety act

	WEEE marking (Waste Electrical and Electronic Equipment Directive)
	weight
	length

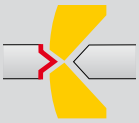
	soft wire
	medium hard wire
	hard wire
	piano wire
	Cu + Al multi-conductor cable, solid and multi-stranded
	wire rope
Fe	iron

CUTTING EDGES TECHNICAL BASICS

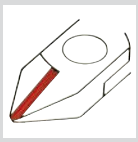
CUTTING EDGE SHAPES
CONFORMING TO DIN ISO 5742

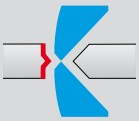


with bevel
(outside bevel)

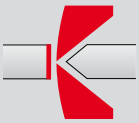


with small bevel
(outside bevel)



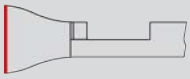


with very small bevel
(outside bevel)

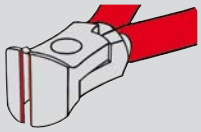


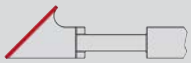
without bevel
(outside bevel)

DIRECTION AND POSITION OF CUTTING EDGES

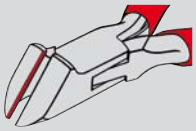


End Cutting Nipper

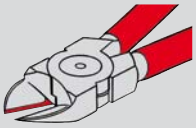




Oblique Cutter



Diagonal Cutter

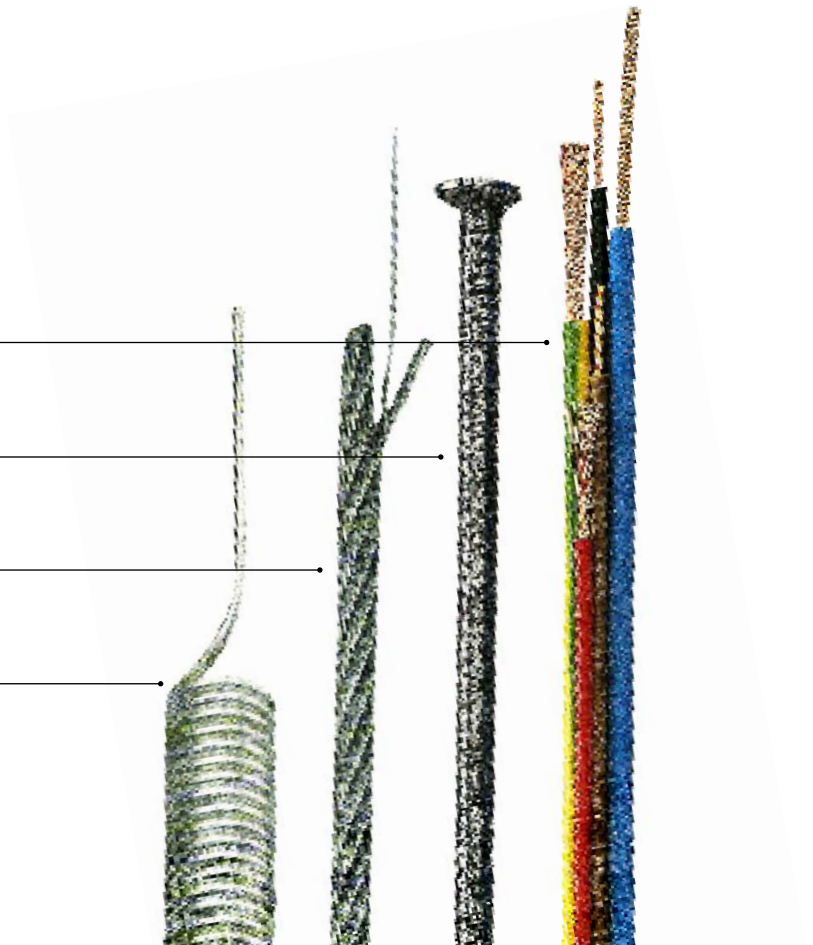


Center Cutter

Safety instruction
Each tool should only be used for its specified purpose. When using cutting pliers: beware of wire ends flying off. Wear protective goggles and, if needed, gloves. Be aware of those around you!
Only handles marked with the symbol 1000 V are insulated.

WIRE CLASSES

	Material examples	Type of wire	Tensile strength	
			N/mm²	kp/mm²
	Copper, plastics	soft	220	22
	Nail, wire pin	medium-hard	750	75
	Wire rope strand, steel wire	hard	1800	180
	Spring steel wire	piano wire	2300	230



ARTICLE NUMBER

STRUCTURE OF ARTICLE NUMBER

Basic model	Style	Finish	Length
e.g.: Combination Pliers	e.g.: straight	e.g.: head polished, handles black atramentized	e.g.: 180 mm
03	0	0	180

Care Tips

A drop of oil on polished surfaces and in the joint will keep the tool in good working order and will increase the service life of your pliers.

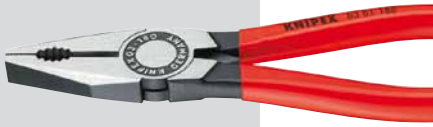
Registered Trademarks of the companies

Con-Pearl®	PARAT-WERK Schönenbach GmbH + Co. KG
Duspol®	Benning, Elektrotechnik and Elektronik GmbH & Co. KG
gesis®	Wieland Electric GmbH
Kapton®, KEVLAR®	E. I. du Pont de Nemours and Company
Radox®	HUBER+SUHNER AG
Phillips®	Phillips Screw Company
Pozidriv®	European Industrial Service Ltd.
systainer®	TANOS GmbH
MC®	Multi-Contact AG
Solarlok®	Tyco Electronics

HEAD/HANDLES

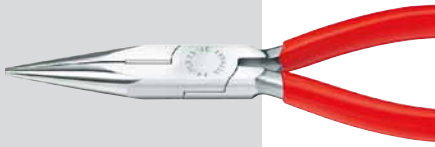
0 Pliers black atramentized, head polished

1 Head polished, handles plastic coated



2 Head polished, handles with multi-component grips

3 Pliers chrome plated, handles plastic coated



4 Pliers chrome plated

5 Pliers chrome plated, handles with multi-component grips

6 Pliers chrome plated, handles insulated with multi-component grips; VDE-tested
DIN EN/IEC 60900/ASTM F1505

7 Pliers chrome plated, handles with dipped insulation; VDE tested
DIN EN/IEC 60900/ASTM F1505

8 Pliers head polished, handles with multi-component grips; VDE-tested
DIN EN/IEC 60900/ASTM F1505

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DIN EN/IEC 60900/ ASTM F1505

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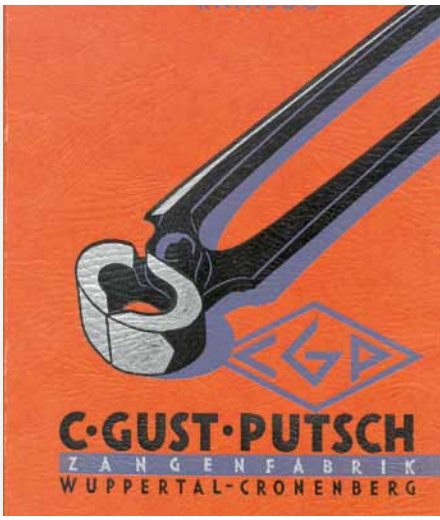
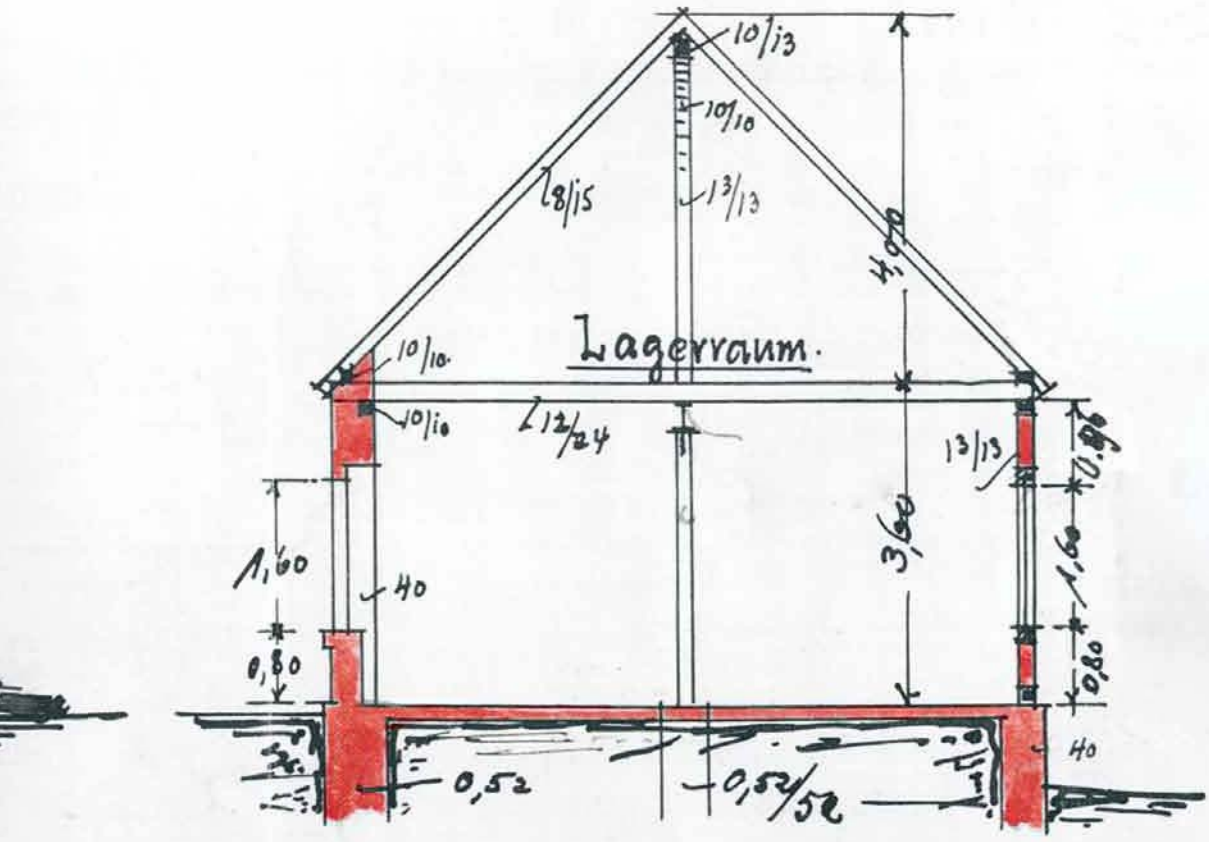
Plan

zu einer Schmiedewerkstelle

für Herrn Gust Putsch Oberkamp

bei Cronenberg.





Schnitt a-b

Cronenberg, den 25

Der Bauherr:

F. Gust. Putsch

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M. 1:100

HOW EVERYTHING BEGAN – AND A SIMPLE PRINCIPLE

1882 Carl Gustav Putsch set up his own small forge shop in Cronenberg (now a part of Wuppertal).

1922 Carl Putsch takes over management. The company develops into an industrial firm.

1942 KNIPEX, the brand, is created and registered.

1954 Karl Putsch (photo left), the grandson of the company founder, takes over management of the family-owned company. Numerous innovations and modern production technology characterise the development.

1987 Ralf Putsch joins the company. International sales are seriously expanded. Other tool manufacturers become part of the KNIPEX Group.

Carl Gustav Putsch wanted to stand on his own two feet after completing his apprenticeship as blacksmith with his father. He therefore set up his own business in 1882 and forged carpenters' and farriers' pincers with two journeymen, 60 pieces per day. The other processes were also carried out in careful manual labour. The quality was sought after, the small enterprise grew.

The next generations were able to build continuously on these foundations. We have retained an independent family-owned company up to the present day. A lot has changed since the first years. Over time, the workshop turned into a factory with modern machinery and continuously improving technology. New types of pliers and pioneering innovations were added. The number of supplied countries grew steadily.

However, our fundamental principle has stayed in place: remain faithful to a product group, concentrate all strengths on it and be „simply the best" in pliers. Don't get side-tracked, instead create more performance and quality in a single segment. This is what KNIPEX stands for as today's leading brand in pliers.

KNIPEX
WORLD FAMOUS PLIERS AND CUTTERS

FOR WHOM WE MAKE PLIERS

They are constantly in our mind: People who work with tools professionally. Who need to be able to rely on their tools, even when the going gets tough. Who expect their tools to last a long time. In other words: Users who are demanding in every respect and who want only the best.

We offer these users a range of around 1,000 different pliers. With this choice we can provide exactly the right tool for every application - and always in a suitable design and size.

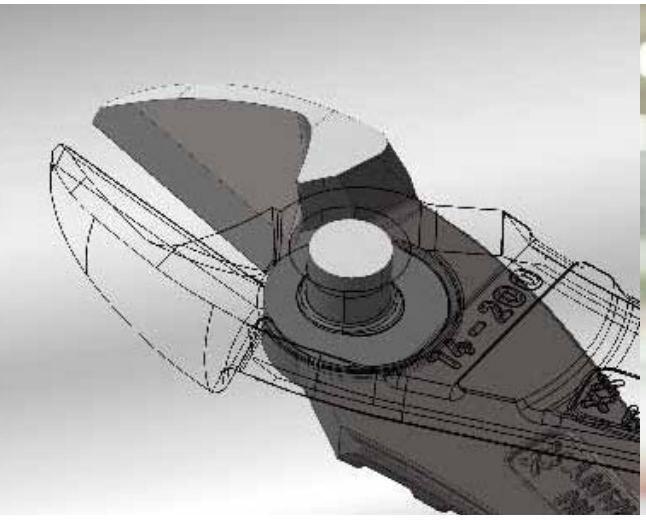
Because the verdict of the professionals is our benchmark, we are always looking for their feedback. About how they work with their pliers and what's important to them, so that we can understand precisely and in detail what matters to them.

Paramount is to know what makes their work easier, quicker and safer. That is, the subject of ergonomics, adapting working appliances to their users. Despite high performance, tools should never stress a user more than necessary. Here, for example, the good design of pliers handles is not the only criterion. We always find new ways of saving strength and relieving the whole hand-arm system.


SIEMENS


C. Gustav Putsch
POSTFACH 120405
DE-42334-WUPPERTAL
Schmelzen-Nr.
Cast No./Coulée No.
219436
Proben-Nr.
Test N./Eprouv.N.
840606
Los-Nr.
Lot No./Lot No.
840606
% C
0,810
% SI
0,26
% MN
0,65
Schmelzen-Nr.
Cast No/Coulée No
219436
Proben-Nr.
Test No.
Ref.
Zust
Probenabm.
Samp.Dim.
Dim.d'epr.
Problg.
Spec. Pos.
Pos.d'epr
Zugversuch
Tensile test
Temp
°C
RM
MPa
20
618

QUALITY IN EVERY DETAIL



Sometimes we give our pliers a really hard time. We try to destroy them to find out what makes them good and long-lasting. Because we don't want to leave anything to chance, we take a long, careful look.

Many trials, for example, have shown us that high-leverage diagonal cutters for very hard wire should be alloyed at best with 0.8% carbon and certain defined parts of chromium and vanadium.

Correctly hardened, this steel guarantees optimum cutting performance and service life. That's why we use it for our pliers – even if it has to be produced especially for us, costs more and is hard to process. But our high product demands require this.

The rivet of the high-leverage diagonal cutter also has to stand up to a lot of stress. That's why we literally give it backup: we forge it straight onto the pliers. This means extra effort – we have to precision mill the rivet to a few hundredth millimeters. Satisfied users are worth this effort.

And then there are, no less important: the angles, the sharpness, the hardness, the toughness of the cutting edges. The precision and smooth movement of the joint. The handle design and the finish: we keep reviewing these subjects, we research, test and improve.

MADE IN WUPPERTAL, GERMANY

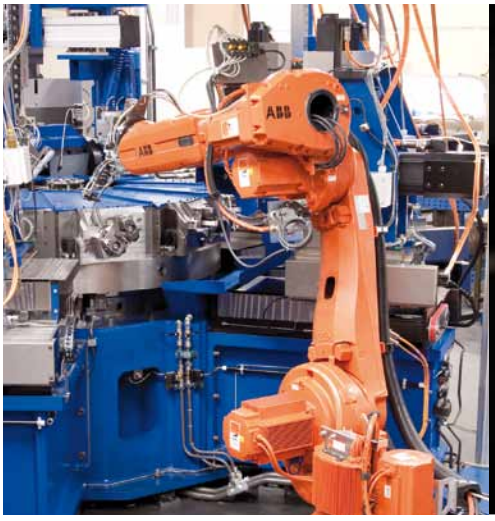
A lot has to come together so that we can make the best pliers.
First of all, the special material. Then: modern processing methods and machines. We want to work with high precision and efficiently at all times.

The machines we require for our special needs are not always available on the market. Then we construct these ourselves. Our mechanical engineers come up with state-of-the-art solutions even for tricky tasks.

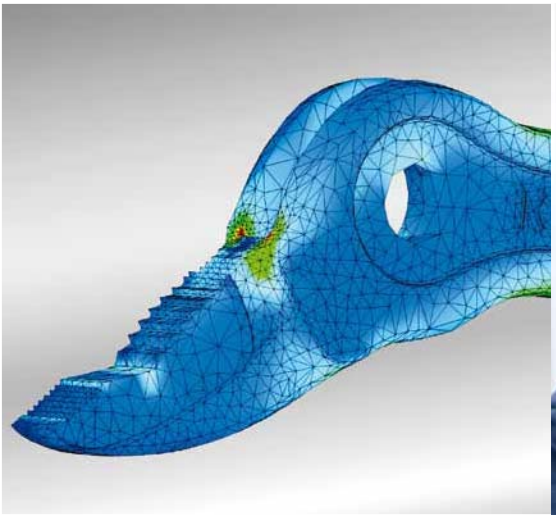
And last but not least: our employees. With their comprehensive experience, their knowledge and skills they make sure that everything turns out precisely as our customers expect. So that we can keep the KNIPEX promise.

Our pliers run through many production steps which are all carefully coordinated. From forging to machining, hardening, surface finishing and all the way to packing, these steps are all carried out under the one roof. This means that we can have a direct and complete influence on how our products are created.

The short distances allow us to respond quickly and implement improvements immediately.



THE THINK TANK



When we have achieved something we are happy – but we don't stop there. For us, better is the enemy of the good. And we like to be the first to have the good ideas for better pliers.

We continuously work on new products and product advantages which offer our users tangible added value. For example by saving handforce when cutting or adjusting pliers for gripping quicker and with more precision. Or you can work without a heavy tool because a more compact one can do the same job.

No matter whether it's a small improvement or a totally new idea: everything is meticulously thought out and designed with state-of-the-art software. New models are then put through the acid test – with the help of computer simulations in the test lab and in user testing. The results are then used to further optimise the product, it is re-tested and finally released for production.

By the time they're on the market our pliers have already come a long, hard way.

OUR CUSTOMERS

Reliably, confidently and long-term – this is how we wish to collaborate with our customers. We have been doing precisely this for decades with many of them. We offer high quality, performance, good service and contact partners who know what it's all about. We want working with us to be easy and pleasant.

Our brand is known and appreciated by consumers. We offer various support for the sale of our products. We visit users together with our distributors to present our tools. We train our partners' field salesforce because a lot can be said about our pliers which the salesperson can use as convincing arguments.

Our understanding of partnership also means that we do not sell directly to end users. And there are no exceptions.

Today, customers in more than 100 countries bank on our products. We reach them via a constantly enlarging, worldwide network of agencies, our own subsidiaries and importers. By observing the many markets we can gain insights and discover important trends, which will be beneficial to the up-to-dateness and competence of our range. Our customers also benefit from this.


ALICATES
PINZE
КЛЕЩИ
SZCZYPCE
ZANGE
PLIERS
TANG
ペンチ
ALICATE
πένσα
الكماشة
KLEŠTĚ
KERPETEN
KLIJEŠTA
钳子
PINCES
TENGER

OUR VALUES – OUR EMPLOYEES

We want to be successful and do a lot to achieve this. But we don't want economic success at any price and not at the expense of values which are important to us.

Our aspirations are to act and operate sustainably. The longevity of our products is only one aspect of many.

We feel closely linked with our location. That is why we are particularly aware that we have a responsibility towards our environment and society – and thereby our future generations. We want to treat resources carefully and not burden nature more than absolutely necessary.

We engage ourselves in many ways in our sphere, in particular in the sectors of education, social policy and culture.

Our employees are particularly important to us. They provide the basis for our success with their knowledge and skills, their commitment and ideas. We train them very thoroughly and support them when they want to develop themselves and learn something new. We put emphasis on a good an fair cooperation and know that we can only attain our high targets jointly.

SPECIAL TOOLS FOR PHOTOVOLTAICS

ALL WORK STEPS WELL CO-ORDINATED FOR BEST RESULTS

There is a steadily increase of electrical power produced by photovoltaic plants (PV systems). The output from this environmentally friendly source of energy rises each year by about 20% worldwide. However, the share in the total power generation is still below 0.3% worldwide, which means there is still rich potential for growth. This makes photovoltaic a profitable sphere of activities for trade and for electrical contractors.

The photovoltaic tools from KNIPEX, customized for cutting, stripping and crimping the special photovoltaic cables and connectors, offer professional and reliable work results and ensure that the relevant requirements, such as e.g. Ral GZ 966, are met.

The requirements for a technically perfect installation of the photovoltaic systems are very high. It is a demanding task to create an electrically efficient and constantly reliable connection in combination with high mechanical requirements.

for contacts from:

Huber + Suhner
Multi-Contact
Hirschmann
Tyco
Wieland and others

Tool Case for Photovoltaics

Article No. 97 91 01:
all tools required for assembly in one case equipped with crimping dies for standard solar cable connectors

SPECIAL PHOTOVOLTAIC RANGE FROM KNIPEX

Cut effected with a Cable Shears: easy, clean cut without any deformation of the cable.

High demands in terms of results require the use of high-quality special tools also. These must be adapted precisely to suit systems from various manufacturers.

As the systems are not compatible with each other, each type of connector requires a set of individual crimping dies. The range is completed by locators to support quick, easy and precise work.

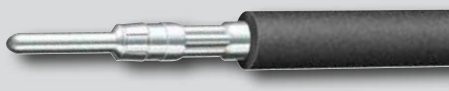
Huber + Suhner

Multi-Contact MC3

Multi-Contact MC4

Hirschmann

Tyco



Wieland

Locators
for an exact connector positioning in the crimp profile

02

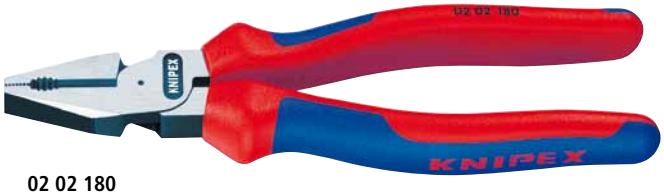
High Leverage Combination Pliers

ISO 5746

Easier cutting. Powerful gripping, bending and pulling.

- 35% less effort required compared to conventional combination pliers
- easier work due to high leverage design
- with cutting edges (hardness approx. 63 HRC) for soft, hard, piano and ACSR wire
- long cutting edges for thicker cables
- with gripping zones for flat and round material, suitable for versatile use
- High-grade special tool steel; forged, oil-hardened

02 01 180



02 02 180

02 08 225
1000 V

Product Number	↔ inch	↔ mm		Pliers	Head	Handles	Cutting capacities Ø inch	Ø inch	Ø inch	AWG	Ø mm	Ø mm	Ø mm	mm²	Ounces
02 01 180	7 1/4	180		black atramentized	polished	plastic coated	3/32	5/64	29/64	5	2.5	2.0	11.5	16.0	7.1
02 01 200	8	200					7/64	3/32	1/2	3	2.8	2.2	13.0	25.0	10.5
02 01 225	9	225					1/8	3/32	35/64	3	3.0	2.5	14.0	25.0	12.6
02 02 180	7 1/4	180		black atramentized	polished	with multi-component grips	3/32	5/64	29/64	5	2.5	2.0	11.5	16.0	8.5
02 02 200	8	200					7/64	3/32	1/2	3	2.8	2.2	13.0	25.0	12.1
02 02 225	9	225					1/8	3/32	35/64	3	3.0	2.5	14.0	25.0	14.4
02 08 200 SBA	8	200	1000 V	black atramentized	polished	insulated with multi-component grips, VDE-tested	7/64	3/32	1/2	3	2.8	2.2	13.0	25.0	12.1
02 08 225 SBA	9	225					1/8	3/32	35/64	3	3.0	2.5	14.0	25.0	14.4

03

Combination Pliers

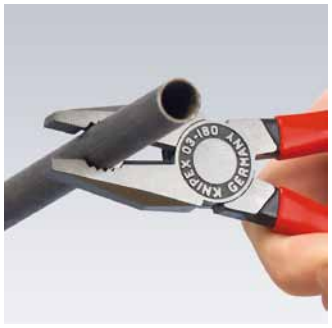
ISO 5746

- with gripping zones for flat and round material, suitable for versatile use
- with cutting edges for soft and hard wire
- long cutting edges for thicker cables
- cutting edge hardness approx. 60 HRC
- Special tool steel; forged, oil-hardened

03 01 180

03 02 180

03 08 200
1000 V



Product Number	↔ inch	↔ mm		Pliers	Head	Handles	Cutting capacities Ø inch	Ø inch	Ø inch	AWG	Ø mm	Ø mm	Ø mm	mm²	Ounces
03 01 140	5 1/2	140		black atramentized	polished	plastic coated	7/64	5/64	23/64	7	2.8	1.8	9.0	10.0	4.0
03 01 180	7 1/4	180					9/64	3/32	15/32	5	3.4	2.2	12.0	16.0	7.6
03 01 200	8	200					5/32	3/32	33/64	5	3.8	2.5	13.0	16.0	9.7
03 01 250	10	250					5/32	3/32	19/32	3	3.8	2.5	15.0	25.0	17.2
03 02 160	6 1/4	160		black atramentized	polished	with multi-component grips	1/8	5/64	25/64	5	3.1	2.0	10.0	16.0	7.9
03 02 180	7 1/4	180					9/64	3/32	15/32	5	3.4	2.2	12.0	16.0	9.0
03 02 200	8	200					5/32	3/32	33/64	5	3.8	2.5	13.0	16.0	11.4
03 08 160 SBA	6 1/4	160	1000 V	black atramentized	polished	insulated with multi-component grips, VDE-tested	1/8	5/64	25/64	5	3.1	2.0	10.0	16.0	7.9
03 08 180 SBA	7 1/4	180					9/64	3/32	15/32	5	3.4	2.2	12.0	16.0	9.0
03 08 200 SBA	8	200					5/32	3/32	33/64	5	3.8	2.5	13.0	16.0	11.4

09

Lineman's Pliers New England Style

ISO 5746 ASME B107.20

- heavy duty
- high transmission ratio for easy cutting
- high leverage design requires 40% less effort compared to conventional combination pliers
- effective cross-hatched knurled gripping zone in the jaws – for strong gripping and pulling
- additional serrated gripping zone below the articulated joint for powerful leverage
- with cutting edges for soft, hard and ACSR wire
- cutting edge hardness approx. 64 HRC
- Vanadium electric steel; forged, oil-hardened

09 01 240

09 02 240

09 08 240

1000 V

Cross hatched serrated gripping zone for firm gripping and pulling, e. g. for fencing

09 11 240

09 11 240 / 09 12 240
includes a crimper and a fish tape puller in the joint gap

Gripping zone below the joint for powerful leverage

Long cutting edges for cutting flat cables

09 11/12 240:
Fish tape puller in the joint gap

09 11/12 240: Crimping area below the joint

Product Number	↔ inch	↔ mm		Pliers	Head	Handles	Cutting capacities Ø inch	Ø inch	Ø mm	Ø mm	Ounces
09 01 240	9 1/2	240		black atramentized	polished	with non-slip plastic coating	3/16	1/8	4.6	3.0	15.3
09 02 240	9 1/2	240		black atramentized	polished	with multi-component grips	3/16	1/8	4.6	3.0	16.6
09 08 240	9 1/2	240	1000 V	black atramentized	polished	insulated with multi-component grips, VDE-tested	3/16	1/8	4.6	3.0	16.6
09 11 240	9 1/2	240		black atramentized	polished	with non-slip plastic coating	3/16	1/8	4.6	3.0	15.3
09 12 240	9 1/2	240		black atramentized	polished	with multi-component grips	3/16	1/8	4.6	3.0	16.6

11

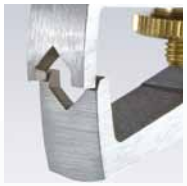
Insulation Strippers

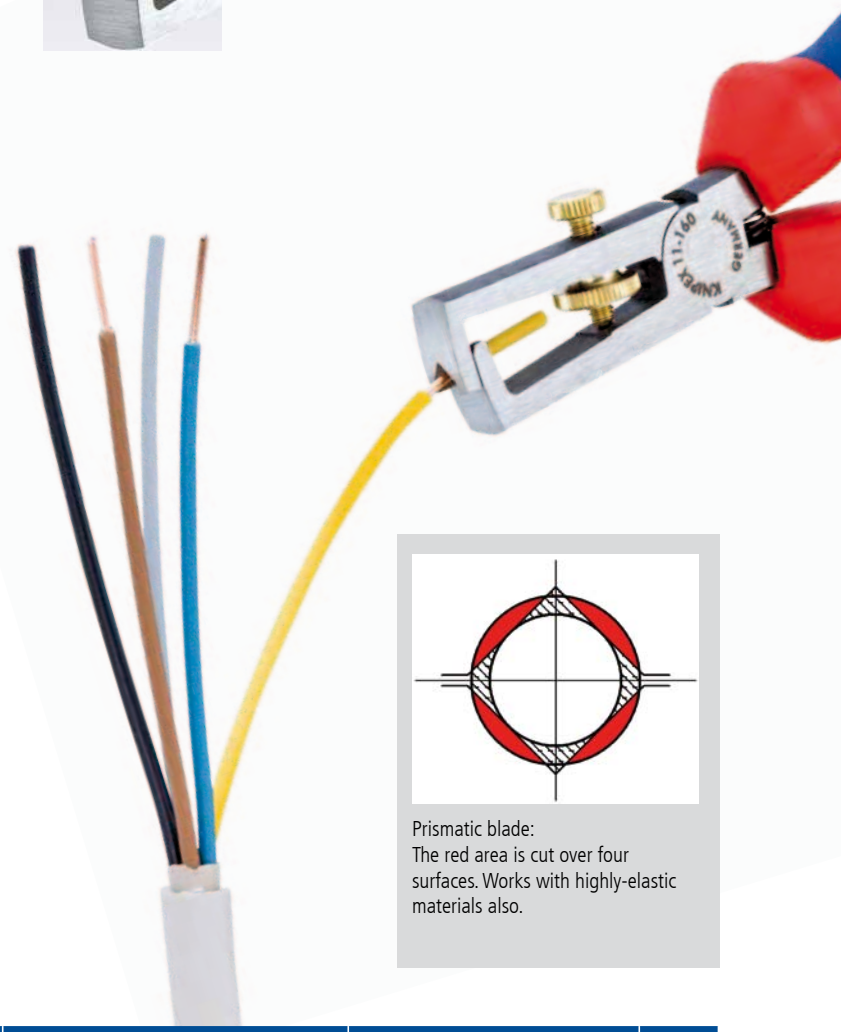
- for single, multiple and fine-stranded conductors with plastic or rubber insulation of a maximum 13/64" diameter. Also suitable for 7 AWG wire.
- easy adjustment to the required diameter of solid or stranded wire with knurled screw and lock nut
- Special tool steel; forged, oil-hardened

11 01 160

11 02 160

11 08 160
1000 V





Prismatic blade:
The red area is cut over four surfaces. Works with highly-elastic materials also.

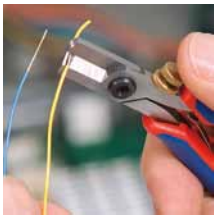
Product Number	↔ inch	↔ mm		Pliers	Head	Handles	Stripping capacities Ø inch	Ø mm	mm²	AWG	Ounces
11 01 160	6 1/4	160		black atramentized	polished	plastic coated	13/64	5.0	10.0	7	4.6
11 02 160	6 1/4	160		black atramentized	polished	with multi-component grips	13/64	5.0	10.0	7	5.8
11 08 160	6 1/4	160	1000 V	black atramentized	polished	insulated with multi-component grips, VDE-tested	13/64	5.0	10.0	7	5.9

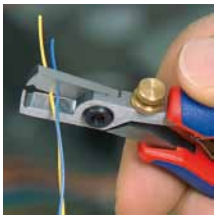
11 8

Electronics Wire Stripping Shears

11 82 130

- for cutting and stripping single, multiple and fine-stranded conductors with diameters up to 3/64" (18 - 32 AWG)
- easy adjustment to the required diameter of solid or stranded wire with knurled screw and lock nut
- with opening spring
- Special tool steel; oil-hardened





Product Number	↔ inch	↔ mm		Head	Handles	Stripping capacities Ø inch	Ø mm	AWG	Ounces
11 82 130	5	130		polished	with multi-component grips	up to 3/64	0.03-1.0	18 - 32	2.6

11 9

Electronics Wire Stripper

11 92 140

- for single, multiple and fine-stranded cables up to 1/32" dia. with plastic or rubber insulation
- easy adjustment to the required diameter of solid or stranded wire with knurled screw and lock nut
- with opening spring
- the mirror polish, together with a fine film of oil, offer the best possible rust protection – no circuit faults caused by peeling chrome from plated tools
- Special tool steel; forged, oil-hardened

Product Number	↔ inch	↔ mm		Head	Handles	Stripping capacities Ø inch	Ø mm	AWG	Ounces
11 92 140	5	140		mirror polished	with multi-component grips	up to 1/32	0.1 - 0.8	18 - 28	3.5

12

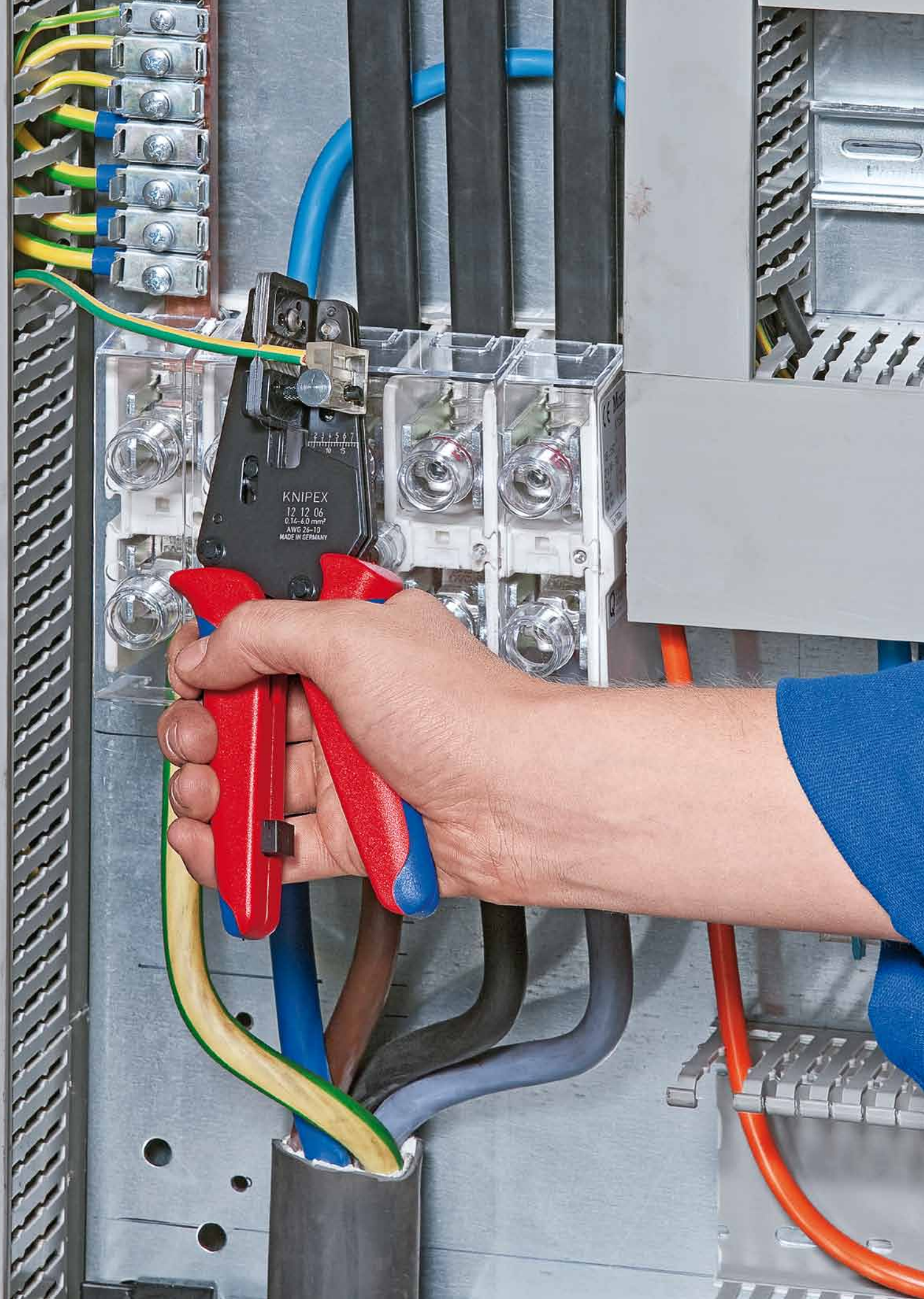
Insulation Stripper with adapted blades

12 21 180

- with replaceable blades for 4 or 6 different conductor cross-sections
- leaves wire undamaged thanks to precision-ground blade shapes, even multi-stranded conductors are stripped gently
- during stripping, the wire is held firmly by clamping jaws
- with length stop for constant stripping length during repetitive work
- pliers body: aluminium
- blade: Special tool steel; oil-hardened

12 21 180: wire cross-sections in mm²

Product Number	↔ inch	↔ mm		Pliers	Handles	Stripping capacities mm²	AWG	Ounces
12 21 180	7 1/4	180		black lacquered	with plastic grips	0.5-0.75 / 1.0 / 1.5 / 2.5 / 4.0 / 6.0	0-19 / 10 / 11 / 13 / 15 / 17	12.9
12 29 180		1 pair of spare blades for 12 21 180						


KNIPEX
12 12 06
0.14–6.0 mm²
AWG 26–10
MADE IN GERMANY

Precision Insulation Strippers

with adapted blades

PATENTED

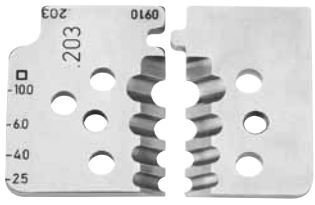
12 12 02

12 12 06

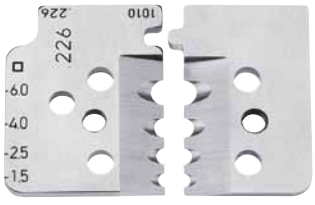
12 12 11

maximum cable cross-section (in mm²) per profile:

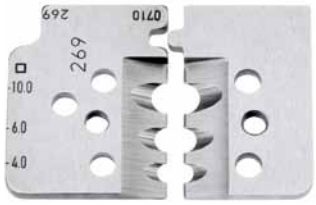
12 12 06



12 12 10



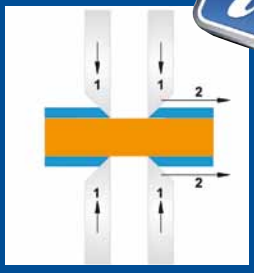
12 12 11



12 12 12

Precise and Reliable

Two pairs of blades (1) cut the insulation completely.
Then the blade pairs move apart, and thus the insulation is removed form-fit (2).
The pliers opens automatically after the stripping procedure.



- form-fit stripping of both standard and difficult-to-remove insulating materials such as PTFE, silicone, Radox®, Kapton® and rubber including multi-layer insulations
- blades are shaped precisely to the respective conductor cross-section
- an adjustable length stop is perfect for use when cutting the same stripping lengths during repetitive work
- pliers body: steel
- blades: Special tool steel; oil-hardened

12 12 02
with additional cable guide for exact positioning of the conductor in the stripping area of the blades

12 12 11 for solar cables
specially adapted to multi-layered and RADOX® insulation; with additional cable support for multi-layer insulated conductors in the stripping profiles

Kapton® is a registered trademark of E. I. du Pont de Nemours and Company

12 12 02

Product Number	↔ inch	↔ mm		Pliers	Handles	Stripping capacities mm²	Stripping capacities AWG	⚖ Ounces
12 12 02	7 1/2	195				0.03 - 2.08	14 - 32	15.8
12 12 06	7 1/2	195				0.14 - 6.00	10 - 26	15.7
12 12 10	7 1/2	195		burnished	with multi-component grips	2.5 - 10.0	7 -13	15.7
12 12 11	7 1/2	195				1.5 - 6.0	10 - 15	15.8
12 12 12	7 1/2	195				4.0 - 10.0	7 - 11	15.8

12 19 02	1 set of spare blades for 12 12 02
12 19 06	1 set of spare blades for 12 12 06
12 19 10	1 set of spare blades for 12 12 10
12 19 11	1 set of spare blades for 12 12 11
12 19 12	1 set of spare blades for 12 12 12

Principle of operation with shaped blades

Neat and precise stripping with a circular cut around the conductor.
Perfect for working with conductors which must be stripped precisely.

For use when working with PTFE, RADOX® and multi-layer insulation.

12 12 02 with cable guide and length stop

Precise cutting of the insulation

The precise shape of the blades leads to perfect stripping

Automatic stripping of the insulation

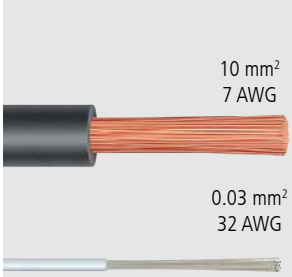
12
40/50

Self-Adjusting Insulation Strippers

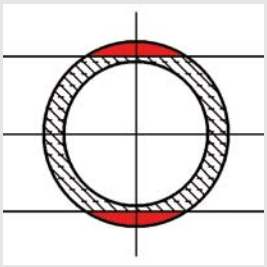
12 40 200

- for single, multiple and fine-stranded conductors with standard plastic or rubber insulation
- adjusts automatically to the respective cable cross-section which prevents damage to the conductor
- cutting depth can be adjusted for different insulation materials
- with wire cutter for copper and aluminium wires, multi-stranded up to 7 AWG and single-stranded up to 10 AWG
- smoothly operating mechanism
- replaceable blade and plastic clamping jaws
- light weight
- body: fiberglass-reinforced
- blade: Special tool steel; oil-hardened

12 40 200
for thin ribbon cables up to 7 AWG width
in a single pass



STRAIGHT BLADE



Wire cutter for multi-stranded wire cables up to 10.0 mm² / 7 AWG

Adjustable length stop

Precise stripping prevents damage to the conductor

Product Number	↔ inch	↔ mm		Stripping capacities mm²	Stripping capacities AWG	Length stop inch	Length stop mm	⚖ Ounces
12 40 200	8	200	MM	0.03 - 10.0	7 - 32	1/8 - 23/32	3.0 - 18.0	7.1
12 50 200	8	200	MM	2.5 - 16.0	5 -13			7.0

12 49 01	1 pair of spare blades for 12 40 200
12 49 02	1 pair of spare clamping jaws for 12 40 200
12 49 03	Spare length stop for 12 40 200
12 59 01	1 pair of spare blades for 12 50 200
12 59 02	1 pair of spare clamping jaws for 12 50 200

12
42

KNIPEX MultiStrip 10

Automatic Insulation Stripper

PATENTED

12 42 195

Patented mechanics
The cutting capability of the stripping blade adapts to the diameter and thickness of all standard insulating materials. There is no need for manual adjustment like other tools.

Stripping without readjustment from 7 to 32 AWG

- automatic adjustment to single, multi- and fine-stranded conductors with standard insulation. Range of 7 to 32 AWG.
- no manual adjustment required; no damage to the conductors
- steel clamping jaws with integrated cutting edges hold the cable and prevent slipping
- with wire cutter for copper and aluminium conductors, multi-stranded up to 7 AWG and single-stranded up to 10 AWG
- light weight
- replaceable blades and length stop
- handle with soft-plastic zone for a steady grip
- body: plastic, fiberglass-reinforced
- blade: Special tool steel; oil-hardened

Mode of operation of straight cutters
Models 12 40 200 and 12 42 195

An incision is made in the red area only.

Not suitable for highly-flexible or armored insulation materials or for multi-layered insulation.

Wire cutter for multiple stranded wire cables up to 10.0 mm² / 7 AWG

Steel restrain jaws with cutting edges avoid skidding of the cable

Precise stripping from 7 - 32 AWG without readjustment

Product Number	↔ inch	↔ mm		Stripping capacities mm²	Stripping capacities AWG	⚖ Ounces
12 42 195	7 1/2	195		0.03 - 10.0	7 - 32	4.8

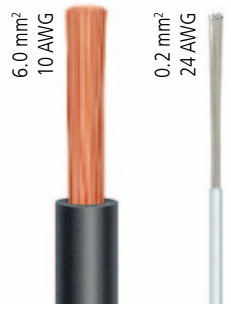
12 49 21	Spare blades block for 12 42 195
12 49 23	Spare length stop for 12 42 195

12
62

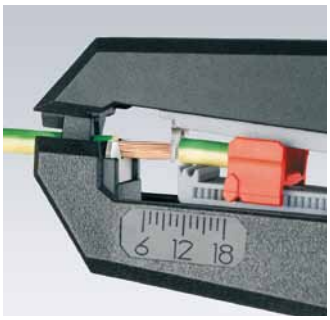
Automatic Insulation Stripper

12 62 180

- compact standard tool at a favorable price for all current cable cross-sections and insulating materials
- for single, multiple and fine-stranded cables of 10 AWG to 24 AWG with standard insulation
- adapts automatically to the respective cable cross-section preventing damage to the conductor
- ergonomic and lightweight
- narrow head style for use in confined areas
- with wire cutter for copper and aluminium wires up to 14 AWG
- with adjustable length stop from 15/64" - 23/32" for stripping the same lengths during repetitive work
- body: plastic, fiberglass-reinforced
- blades: Special tool steel; oil-hardened, interchangeable



Wire cutter up to 2.5 mm² / 14 AWG



Precise stripping from 0.2 up to 6.0 mm² / AWG 10 to AWG 24

Stripping in confined areas

Product Number	↔ inch	↔ mm		Stripping capacities mm²	Stripping capacities AWG	⚖ Ounces
12 62 180	7 1/4	180		0.2 - 6.0	10 - 24	5.3

12 69 21	1 pair of spare blades for 12 62 180
12 69 23	Spare length stop for 12 62 180

12
64

Automatic Insulation Stripper for flat cable

12 64 180

- for PVC-insulated flat cables up to a max. 15/32" width and 14 AWG to 19 AWG
- adapts automatically to the various conductor heights which prevents damage to the conductor
- allows long stripping lengths
- replaceable blade
- smoothly operating mechanism
- lightweight
- body: fiberglass-reinforced
- blade: Special tool steel; oil-hardened

Product Number	↔ inch	↔ mm		Stripping capacities mm²	Stripping capacities AWG	⚖ Ounces
12 64 180	7 1/4	180		0.75 - 2.5	14 - 19	4.4

12 69 31	1 pair of spare blades for 12 64 180

12 80

Mini Stripping Tool

12 80 040 SB

for thin copper conductors dia. 0.12 to 0.4 mm (26 - 36 AWG)

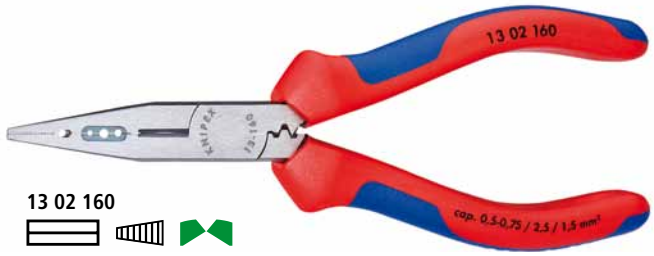
Product Number	↔ inch	↔ mm		Stripping capacities Ø mm	Stripping capacities AWG	Ounces
12 80 040 SB	4	100		0.12 - 0.4	26 - 36	1.2

- precise stripping because of the tool's gradual adjustment to the conductor's diameter
- with wire cutter
- adjustable length stop from 5/32" - 19/32"
- with locking device
- housing: plastic, impact-resistant

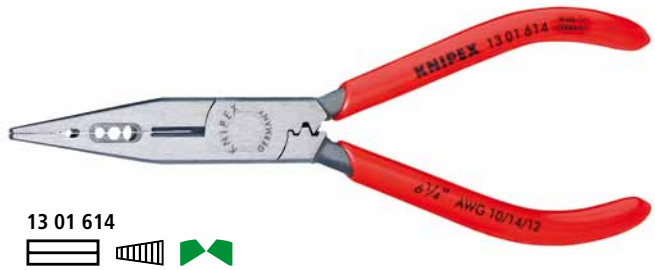
13

Electrician's Pliers

13 01 160



13 02 160



13 01 614

- the ideal pliers for cable work
- for gripping and bending wire
- for cutting soft, medium and hard wire
- precision cutting edges additionally hardened, cutting edge hardness approx. 60 HRC
- with precision stripping holes
- for crimping end sleeves (ferrules)
- Vanadium electric steel; forged, oil-hardened

Gripping

Cutting

Stripping

Crimping 0.5 to 2.5 mm² / AWG 14 - AWG 20

Product Number	↔ inch	↔ mm		Pliers	Head	Handles	Stripping capacities	Cutting capacities Ø inch	Ø inch	Ø mm	Ø mm	Ounces
13 01 160	6 1/4	160		black atramentized	polished	plastic coated	0.5 - 0.75 / 1.5 / 2.5 mm²	3/32	1/16	2.5	1.6	4.0
13 02 160	6 1/4	160		black atramentized	polished	with multi-component grips	0.5 - 0.75 / 1.5 / 2.5 mm²	3/32	1/16	2.5	1.6	5.0
13 01 614	6 1/4	160		black atramentized	polished	plastic coated	10 / 12 / 14 AWG	3/32	1/16	2.5	1.6	4 .0

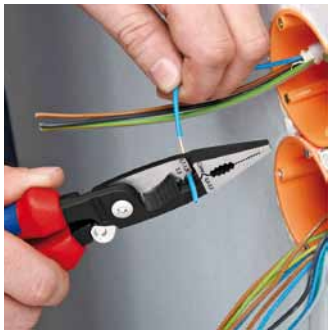
Installation Pliers

- multifunctional pliers for the electrical installation; for cutting cable, stripping and crimping end sleeves (ferrules), to grip flat and round material, for bending, deburring
- 6 functions in one pair of pliers
- smooth surfaces near the tips grip single conductors without damaging them; serrated gripping surfaces and pipe grip for gripping flat and round material
- clear-cut outside edge on the jaw for working on flush-mounted junction boxes and deburring feed-through holes
- stripping holes for 12 + 14 AWG
- crimp die for end sleeves (ferrules) 12 - 20 AWG
- cable shears with (induction-hardened) precision cutting edges for copper and aluminium cables up to 19/32" dia.
- slim dimensions for easy access
- bolted joint: precise, zero backlash operation of pliers
- High-grade special tool steel; forged, oil-hardened

13 81 8

13 82 8

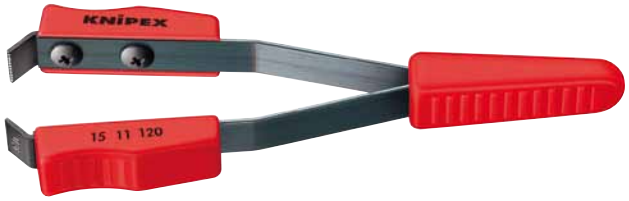
13 88 8
1000 V



Product Number	↔ inch		Pliers	Head	Handles	Stripping capacity for cross-sections AWG	Crimping capacity AWG	⚖ Ounces
13 81 8	8		black atramentized	polished	plastic coated	12 + 14	12 - 20	9.3
13 82 8	8		black atramentized	polished	with multi-component grips	12 + 14	12 - 20	9.9
13 88 8	8	1000 V	black atramentized	polished	insulated with multi-component grips, VDE-tested	12 + 14	12 - 20	9.9

Product Number	↔ mm		Pliers	Head	Handles	Stripping capacity for cross-sections AWG	Crimping capacity mm^2	⚖ Ounces
13 81 8	200		black atramentized	polished	plastic coated	12 + 14	0.5 - 2.5	9.3
13 82 8	200		black atramentized	polished	with multi-component grips	12 + 14	0.5 - 2.5	9.9
13 88 8	200	1000 V	black atramentized	polished	insulated with multi-component grips, VDE-tested	12 + 14	0.5 - 2.5	9.9

15 11 Coated-Wire Stripping Tweezers



15 11 120

- for stripping off varnished insulation on copper wires
- blades for other wire diameters available as spare parts
- tweezers body: spring steel; oil-hardened
- handle shells: plastic

Product Number	↔ inch	↔ mm	Stripping capacities Ø inch	Ø mm	⚖ Ounces
15 11 120	4 1/2	120	1/64	0.6	1.2

Product Number	
15 19 006	1 pair of spare blades for 15 11 120 Ø 1/64 in (0.6 mm)
15 19 008	1 pair of spare blades for 15 11 120 Ø 1/32 in (0.8 mm)

16 20 Dismantling Tool

16 20 16 SB

- for stripping all common round cables
- self-cocking holding lever
- with adjusting screw for cutting depth adaptation
- turnable blade for circular and longitudinal cutting
- spare blade inside the handle
- secure grip due to soft component material on handle and holding lever to avoid slipping
- housing: plastic, impact-resistant

16 20 165 SB
with knife and hook blade inclusive protective cap

Product Number	↔ inch	↔ mm		Stripping capacities Ø inch	Ø mm	⚖ Ounces
16 20 16 SB	5 1/4	130		5/32 - 5/8	4.0 - 16.0	1.2

16 30 Dismantling Tool

16 30 135 SB

- for dismantling round cable sheaths made of PVC, rubber, silicon or PTFE from 15/64" - 1 9/64" dia. and 40 - 1000 MCM
- self-cocking holding lever
- with knurled nut for cutting depth adjustment
- changing from circular to longitudinal cutting by turning the tool body
- spiral cutting for removing intermediate pieces
- replaceable blade
- housing: plastic, impact-resistant

Product Number	↔ inch	↔ mm		Stripping capacities Ø inch	Ø mm	MCM	⚖ Ounces
16 30 135 SB	5 1/4	135		15/64 - 1 9/64	6.0 - 29.0	40 - 1000	4.2

16 40

Dismantling Tool

16 40 150 SB

Adjustable cutting depth

- for dismantling round cables exceeding 1" in dia.
- removes all kinds of insulation layers
- suitable for longitudinal and circular cutting
- cutting depth can be adjusted up to 13/64"
- replaceable blade (both sides can be used)
- tool body: plastic, fiberglass-reinforced

Setting the tool for longitudinal cut

Longitudinal cut

Turning the tool for circumferential cut

Circular cut

Product Number	↔ inch	↔ mm	Stripping capacities Ø inch	Ø mm	⚖ Ounces
16 40 150 SB	6	150	1	> 25	7.4
16 49 150		Spare blade for 16 40 150 SB			

16 65

Dismantling Tool for data cables

16 65 125 SB

- for stripping UTP and STP data cables with diameters of 11/64" to 25/64"
- stripping device for 11 - 24 AWG
- double shell, folding back stripping tool
- with opening spring and locking lever
- clip for safe transport
- body: plastic, fiberglass-reinforced

Product Number	↔ inch	↔ mm		Types of cables	Stripping capacities Ø inch	Ø mm	AWG	mm²	⚖ Ounces
16 65 125 SB	5	125		CAT 5, CAT 6, CAT 7, Twisted-Pair (UTP/STP)	11/64 - 25/64	4.5 - 10.0	11 - 24	0.2 - 4.0	1.8

19

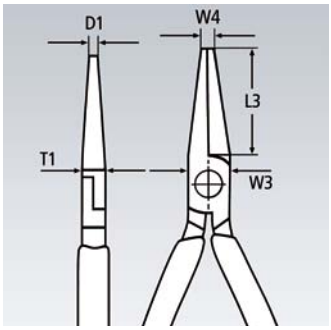
Round Nose Pliers with cutting edge

(Jewelers' Pliers)

ISO 5743

19 01 130

- for fine wire and working with jewelery
- ideal for cutting and bending work, also in electronics
- for bending wire loops
- precision-ground smooth, round jaws with fine, pointed tips
- cutting edges additionally hardened, cutting edge hardness approx. 60 HRC
- Vanadium electric steel; forged, oil-hardened



Product Number	↔ inch		Pliers	Head	Handles	Dimensions D1 inch	L3 inch	T1 inch	W3 inch	W4 inch	Cutting capacities Ø inch	Ø inch	Ounces
19 01 130	5 1/8		black atramentized	polished	plastic coated	3/64	1 17/64	5/16	17/32	5/64	3/32	1/16	2.6

Product Number	↔ mm		Pliers	Head	Handles	Dimensions D1 mm	L3 mm	T1 mm	W3 mm	W4 mm	Cutting capacities Ø mm	Ø mm	Ounces
19 01 130	130		black atramentized	polished	plastic coated	1.0	32.0	8.0	13.5	2.0	2.2	1.6	2.6

20

Flat Nose Pliers

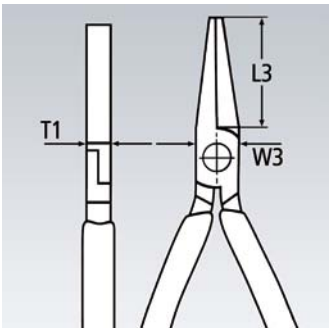
ISO 5745

20 01 160

20 06 160 SBA

1000 V

- flat, short and wide jaws
- serrated gripping surfaces
- Chrome vanadium electric steel; forged, oil-hardened



Product Number	↔ inch	↔ mm		Pliers	Head	Handles	Dimensions L3 inch	W3 inch	T1 inch	L3 mm	W3 mm	T1 mm	Ounces
20 01 125	5	125		black atramentized	polished	plastic coated	1 1/16	37/64	5/16	27.0	14.5	8.0	2.6
20 01 140	5 1/2	140					1 3/32	39/64	3/8	28.0	15.5	9.5	3.8
20 01 160	6 1/4	160					1 3/16	43/64	3/8	30.0	17.0	9.5	5.1
20 01 200	8	200					1 1/2	53/64	15/32	38.0	21.0	12.0	9.5
20 06 160	6 1/4	160	1000 V	chrome plated		insulated with multi-component grips, VDE-tested	1 3/16	43/64	3/8	30.0	17.0	9.5	5.1

22

Round Nose Pliers

ISO 5745

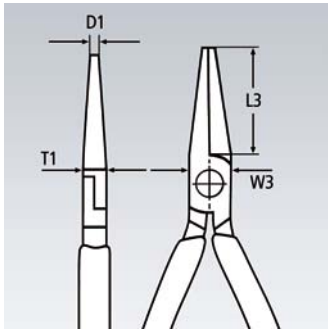
- for bending wire loops
- round, short jaws; smooth ground
- Chrome vanadium electric steel; forged, oil-hardened

22 01 160

22 02 160

22 08 160 SBA

1000 V



Product Number	↔ inch	↔ mm		Pliers	Head	Handles	Dimensions L3 inch	W3 inch	D1 inch	T1 inch	L3 mm	W3 mm	D1 mm	T1 mm	Ounces
22 01 125	5	125		black atramentized	polished	plastic coated	1 1/16	37/64	5/64	5/16	27.0	14.5	2.0	8.0	2.6
22 01 140	5 1/2	140					1 3/32	21/32	7/64	3/8	28.0	16.5	2.5	9.5	3.5
22 01 160	6 1/4	160					1 3/16	23/32	1/8	3/8	30.0	18.0	3.0	9.5	4.9
22 01 180	6 1/4	180					1 3/8	53/64	9/64	13/32	35.0	21.0	3.5	10.5	6.2
22 02 140	5 1/2	140		black atramentized	polished	with multi-component grips	1 3/32	21/32	7/64	3/8	28.0	16.5	2.5	9.5	4.6
22 02 160	7 1/4	160					1 3/16	23/32	1/8	3/8	30.0	18.0	3.0	9.5	6.0
22 08 160 SBA	7 1/4	160	1000 V	black atramentized	polished	insulated with multi-component grips, VDE-tested	1 3/16	23/32	1/8	3/8	30.0	18.0	3.0	9.5	6.0

23

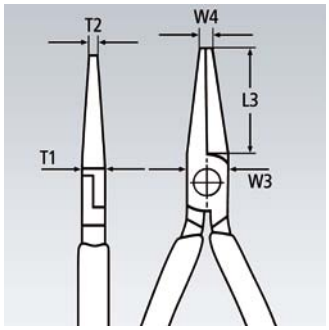
Flat Nose Pliers with cutting edges

(precision mechanics pliers)

ISO 5745

- suitable for gripping and cutting work in fine mechanics
- flat, long and tapered jaws
- cutting edges additionally induction hardened, cutting edge hardness approx. 60 HRC
- High-grade special tool steel; forged, oil-hardened

23 01 140



Product Number	↔ inch		Head	Handles	Cutting capacities Ø inch	Ø inch	Dimensions T1 inch	L3 inch	W3 inch	W4 inch	T2 inch	Ounces
23 01 140	5 1/2		polished	plastic coated	7/64	1/16	9/32	1 3/8	1/2	1/8	3/16	2.6

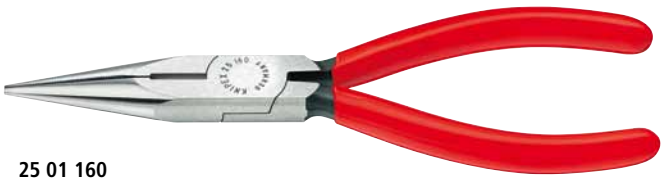
Product Number	↔ mm		Head	Handles	Cutting capacities Ø mm	Ø mm	Dimensions T1 mm	L3 mm	W3 mm	W4 mm	T2 mm	Ounces
23 01 140	140		polished	plastic coated	2.5	1.6	7.0	35.0	12.5	3.0	4.5	2.6

25

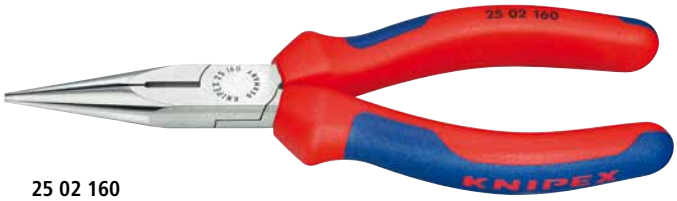
Snipe Nose Side Cutting Pliers

(radio pliers)

ISO 5745



25 01 160

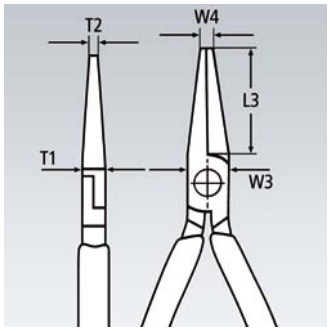


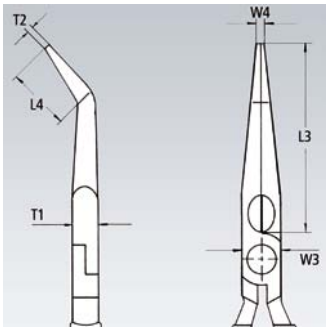
25 02 160

25 08 160 SBA

1000 V

- suitable for fine gripping and cutting work
- pointed, half-round jaws
- serrated gripping surfaces
- with cutting edges for soft, medium and hard wire
- cutting edges additionally induction hardened, cutting edge hardness approx. 61 HRC
- Vanadium electric steel; forged, oil-hardened





Product Number	↔ inch		Pliers	Head	Handles	Cutting capacities Ø inch	Cutting capacities Ø inch	Dimensions L3 inch	L4 inch	W3 inch	T1 inch	W4 inch	T2 inch	Ounces
25 01 125	5		black atramentized	polished	plastic coated	3/32	1/16	1 1/16		1/2	9/32	3/32	5/64	2.6
25 01 140	5 1/2					3/32	1/16	1 21/32		19/32	5/16	3/32	5/64	3.1
25 01 160	6 1/4					3/32	1/16	1 31/32		21/32	23/64	1/8	3/32	4.0
25 02 140	5 1/2		black atramentized	polished	with multi-component grips	3/32	1/16	1 21/32		19/32	5/16	3/32	5/64	3.8
25 02 160	6 1/4					3/32	1/16	1 31/32		21/32	23/64	1/8	3/32	5.1
25 08 160 SBA	6 1/4	1000 V	black atramentized	polished	insulated with multi-component grips, VDE-tested	3/32	1/16	1 31/32		21/32	23/64	1/8	3/32	5.1
25 21 160	6 1/4	40°	black atramentized	polished	plastic coated	3/32	1/16	1 31/32	29/32	21/32	23/64	1/8	3/32	4.0

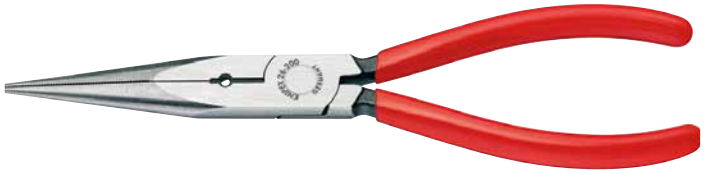
Product Number	↔ mm		Pliers	Head	Handles	Cutting capacities Ø mm	Cutting capacities Ø mm	Dimensions L3 mm	L4 mm	W3 mm	T1 mm	W4 mm	T2 mm	Ounces
25 01 125	125		black atramentized	polished	plastic coated	2.2	1.6	27.0		13.0	7.0	2.5	1.8	2.6
25 01 140	140					2.5	1.6	42.0		15.0	8.0	2.5	2.0	3.1
25 01 160	160					2.5	1.6	50.0		16.5	9.0	3.0	2.5	4.0
25 02 140	140		black atramentized	polished	with multi-component grips	2.5	1.6	42.0		15.0	8.0	2.5	2.0	3.8
25 02 160	160					2.5	1.6	50.0		16.5	9.0	3.0	2.5	5.1
25 08 160 SBA	160	1000 V	black atramentized	polished	insulated with multi-component grips, VDE-tested	2.5	1.6	50.0		16.5	9.0	3.0	2.5	5.1
25 21 160	160	40°	black atramentized	polished	plastic coated	2.5	1.6	50.0	23.0	16.5	9.0	3.0	2.5	4.0

Snipe Nose Side Cutting Pliers

(stork beak pliers)

ISO 5745

26 11 200

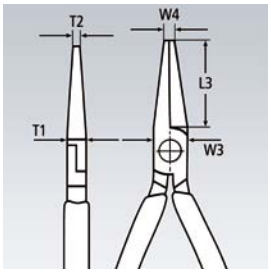


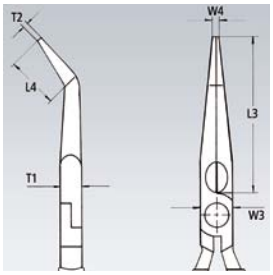
26 11 200 S1

26 22 200

Elastic tips: stable even when twisted

- resilient precision tips snap back into place even after being twisted
- half-round, long, pointed jaws
- with additionally hardened cutting edges (hardness approx. 61 HRC) for soft, medium hard and hard wire
- Vanadium electric steel; forged, oil-hardened





26 18 200 SBA

Product Number	↔ inch		Pliers	Head	Handles	Cutting capacities Ø inch	Cutting capacities Ø inch	Dimensions L3 inch	L4 inch	T1 inch	W3 inch	W4 inch	T2 inch	Ounces
26 11 200	8		black atramentized	polished	plastic coated	1/8	3/32	2 7/8		3/8	11/16	1/8	3/32	6.0
26 11 200 S1	8			polished	plastic coated	1/8	3/32	2 7/8		3/8	11/16	1/8	3/32	6.0
26 18 200 SBA	8	1000 V	black atramentized	polished	insulated with multi-component grips, VDE-tested	1/8	3/32	2 7/8		3/8	11/16	1/8	3/32	6.0
26 12 200	8		black atramentized	polished	with multi-component grips	1/8	3/32	2 7/8		3/8	11/16	1/8	3/32	7.1
26 21 200	8	40°	black atramentized	polished	plastic coated	1/8	3/32	2 7/8	29/32	3/8	11/16	1/8	3/32	6.0
26 28 200 SBA	8	40° 1000 V	black atramentized	polished	insulated with multi-component grips, VDE-tested	1/8	3/32	2 7/8	29/32	3/8	11/16	1/8	3/32	6.0
26 22 200	8	40°	black atramentized	polished	with multi-component grips	1/8	3/32	2 7/8	29/32	3/8	11/16	1/8	3/32	6.9

Product Number	↔ mm		Pliers	Head	Handles	Cutting capacities Ø mm	Cutting capacities Ø mm	Dimensions L3 mm	L4 mm	T1 mm	W3 mm	W4 mm	T2 mm	Ounces
26 11 200	200		black atramentized	polished	plastic coated	3.2	2.2	73.0		9.5	17.5	3.0	2.5	6.0
26 11 200 S1	200			polished	plastic coated	3.2	2.2	73.0		9.5	17.5	3.0	2.5	6.0
26 18 200 SBA	200	1000 V	black atramentized	polished	insulated with multi-component grips, VDE-tested	3.2	2.2	73.0		9.5	17.5	3.0	2.5	6.0
26 12 200	200		black atramentized	polished	with multi-component grips	3.2	2.2	73.0		9.5	17.5	3.0	2.5	7.1
26 21 200	200	40°	black atramentized	polished	plastic coated	3.2	2.2	73.0	23.0	9.5	17.5	3.0	2.5	6.0
26 28 200 SBA	200	40° 1000 V	black atramentized	polished	insulated with multi-component grips, VDE-tested	3.2	2.2	73.0	23.0	9.5	17.5	3.0	2.5	6.0
26 22 200	200	40°	black atramentized	polished	with multi-component grips	3.2	2.2	73.0	23.0	9.5	17.5	3.0	2.5	6.9

28

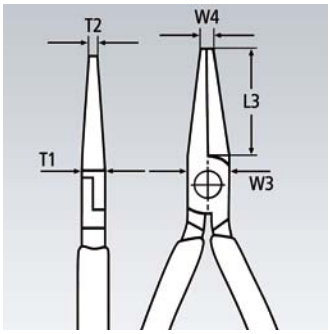
Assembly Pliers

ISO 5743

- suitable for gripping and assembly work
- serrated gripping surfaces
- High-grade special tool steel; forged, oil-hardened

28 01 200

28 21 200



Product Number	↔ inch	↔ mm		Pliers	Head	Handles	Dimensions L3 inch	W3 inch	T1 inch	W4 inch	T2 inch	L3 mm	W3 mm	T1 mm	W4 mm	T2 mm	⚖ Ounces
28 01 200	8	200		black atramentized	polished	plastic coated	1 19/64	17/32	13/32	5/32	13/32	33.0	13.5	10.5	4.0	10.5	6.9
28 21 200	8	200		black atramentized	polished	plastic coated	1 11/32	17/32	13/32	1/8	1/8	34.0	13.5	10.5	3.0	3.0	6.6

29

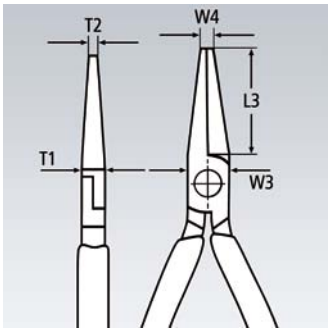
Telephone Pliers

ISO 5745

29 11 160

- cross-hatched gripping surfaces, knurled
- Chrome vanadium electric steel; forged, oil-hardened

Style 2
extra slim, fine tips; also suitable for soldering work



Product Number	↔ inch	↔ mm		Style	Pliers	Head	Handles	Dimensions L3 inch	W3 inch	T1 inch	W4 inch	T2 inch	L3 mm	W3 mm	T1 mm	W4 mm	T2 mm	⚖ Ounces
29 11 160	6 1/4	160		1	black atramentized	polished	plastic coated	2 11/64	35/64	5/16	3/32	21/64	55.0	14.0	8.0	2.5	8.5	3.6
29 21 160	6 1/4	160		2	black atramentized	polished	plastic coated	2 1/8	35/64	23/64	5/64	5/64	54.0	14.0	9.0	2.0	2.0	4

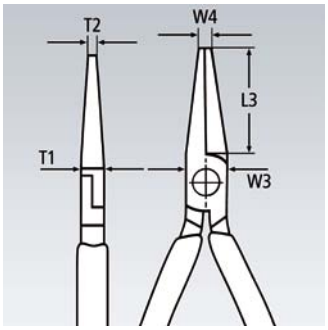
31

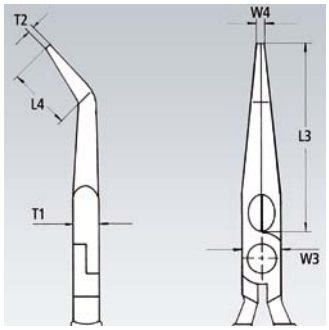
Gripping Pliers (needle-nose pliers)

ISO 5743

31 11 160

- precision pliers for assembly, bending and adjusting work
- with extra long jaws: length of jaws 2 11/64"
- smooth gripping surfaces
- smooth edges
- Chrome vanadium electric steel; forged, oil-hardened



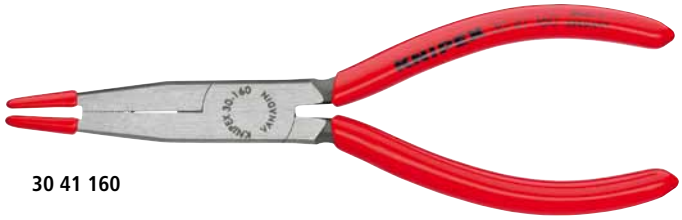


Product Number	↔ inch	↔ mm		Pliers	Head	Handles	Dimensions L3 inch	L4 inch	W3 inch	T1 inch	W4 inch	T2 inch	⚖ Ounces
31 11 160	6 1/4	160		black atramentized	polished	plastic coated	2 11/64		5/8	19/64	5/64	3/32	3.5
31 21 160	6 1/4	160	∡45°	black atramentized	polished	plastic coated	2 11/64	1 1/16	5/8	19/64	5/64	3/32	3.4

Product Number	↔ inch	↔ mm		Pliers	Head	Handles	Dimensions L3 mm	L4 mm	W3 mm	T1 mm	W4 mm	T2 mm	⚖ Ounces
31 11 160	6 1/4	160		black atramentized	polished	plastic coated	55.0		16.0	7.5	2.0	2.5	3.5
31 21 160	6 1/4	160	∡45°	black atramentized	polished	plastic coated	55.0	27.0	16.0	7.5	2.0	2.5	3.4

30
41

Halogen Bulb Exchange Pliers



30 41 160

- for the installation of wedge bulb lamps
- plastic coated gripping surfaces
- Chrome vanadium electric steel; forged, oil-hardened

Product Number	↔ inch	↔ mm	Pliers	Head	Handles	⚖ Ounces
30 41 160	6 1/4	160	black atramentized	polished	plastic coated	4.2

30

Long Nose Pliers

ISO 5745

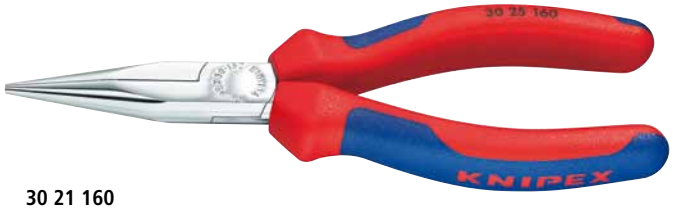
- heavy duty gripping pliers
- different jaw styles for a wide range of applications
- Chrome vanadium electric steel; forged, oil-hardened

30 11 190

Style 1
long, trapezoidal jaws; serrated gripping surfaces

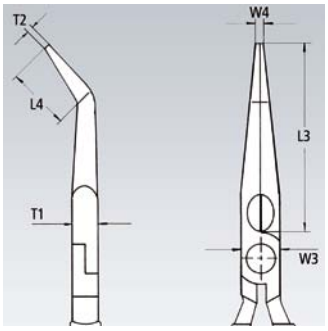
Style 2
long, half-round jaws; serrated gripping surfaces

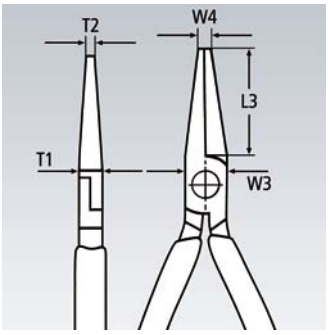
Style 3
long, round jaws; smooth gripping surfaces



30 21 160

30 36 160
1000 V





Product Number	↔ inch	↔ mm		Style	Pliers	Head	Handles	Dimensions L3 inch	W3 inch	T1 inch	W4 inch	T2 inch	L3 mm	W3 mm	T1 mm	W4 mm	T2 mm	Ounces
30 11 190	7 1/2	190		1	black atramentized	polished	plastic coated	1 3/32	47/64	3/8	1/8	9/32	50.0	18.5	9.5	3.0	7.0	4.9
30 16 160	6 1/4	160	1000 V	1	chrome plated		insulated with multi-component grips, VDE-tested	1 3/32	21/32	3/8	1/8	3/32	50.0	16.5	9.5	3.0	2.5	5.3
30 21 160	6 1/4	160		2	black atramentized	polished	plastic coated	1 3/32	21/32	3/8	1/8	3/32	50.0	16.5	9.5	3.0	2.5	4.3
30 31 140	5 1/2	140		3	black atramentized	polished	plastic coated	1 31/64	19/32	5/16	5/32	5/64	37.5	15.0	8.0	4.0	2.0	2.9
30 31 160	6 1/4	160						1 19/32	21/32	3/8	13/64	3/32	41.0	16.5	9.5	5.0	2.5	3.9
30 36 160	6 1/4	160	1000 V	3	chrome plated		insulated with multi-component grips, VDE-tested	1 19/32	21/32	3/8	13/64	3/32	41.0	16.5	9.5	5.0	2.5	5.0

32

Relay Adjusting Pliers

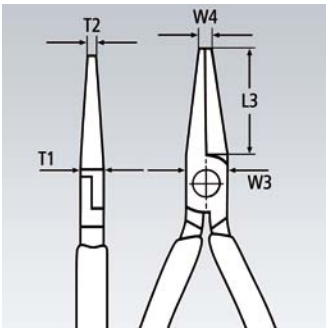
ISO 5235

32 21 135

32 31 135

∡40°

- for gripping small wires and bending contact and relay springs
- polished gripping surfaces
- smooth edges
- Chrome vanadium electric steel; forged, oil-hardened



Product Number	↔ inch	↔ mm		Pliers	Head	Handles	Dimensions L3 inch	W3 inch	T1 inch	W4 inch	T2 inch	L3 mm	W3 mm	T1 mm	W4 mm	T2 mm	⚖ Ounces
32 21 135	5 1/4	135		black atramentized	polished	plastic coated	1 11/32	1/2	9/32	1/16	9/64	34.0	12.5	7.0	1.4	3.5	2.6
32 31 135	5 1/4	135	∡40°	black atramentized	polished	plastic coated	1 17/64	1/2	9/32	1/16	9/64	32.0	12.5	7.0	1.4	3.5	2.6

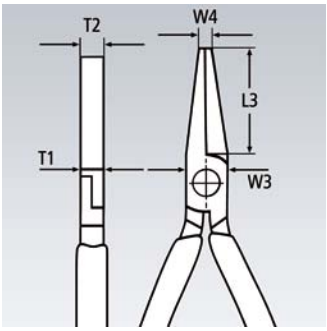
33

Duckbill Pliers

ISO 5743

33 01 160

- duckbill shaped jaws 23/64" wide at the tip and tapering to 1/16" thickness
- smooth gripping surfaces
- Chrome vanadium electric steel; forged, oil-hardened



Product Number	↔ inch	↔ mm		Pliers	Head	Handles	Dimensions L3 inch	W3 inch	T1 inch	W4 inch	T2 inch	L3 mm	W3 mm	T1 mm	W4 mm	T2 mm	⚖ Ounces
33 01 160	6 1/4	160		black atramentized	polished	plastic coated	2 11/64	19/32	19/64	1/8	23/64	55.0	15.0	7.5	3.0	9.0	3.6
33 03 160	6 1/4	160		chrome plated		plastic coated	2 11/64	19/32	19/64	1/8	23/64	55.0	15.0	7.5	3.0	9.0	3.6

34

Precision Electronics Gripping Pliers

ISO 9655

34 12 130

34 22 130

34 32 130

The subtle difference
KNIPEX precision electronics pliers are made of high-quality ball bearing steel and processed with the highest degree of care. Each movement is gentle and even and there is no backlash. Each work step proceeds reliably and precisely. This makes work much easier for professionals.

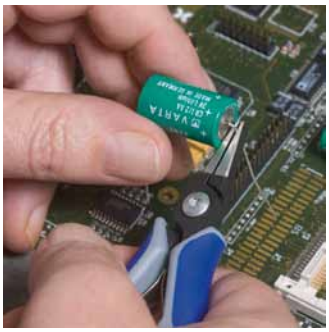
- for very precise assembly work, e.g. in electronics and fine mechanics
- for gripping, holding and bending
- smooth gripping surfaces; smooth edges
- approx. 20% lighter than conventional electronics pliers
- bolted joint and carefully manufactured joint surfaces for even, low-friction movement throughout the entire opening range
- double spring for a gentle and even opening
- ergonomically optimized handle covers
- Chrome vanadium ball-bearing steel; forged

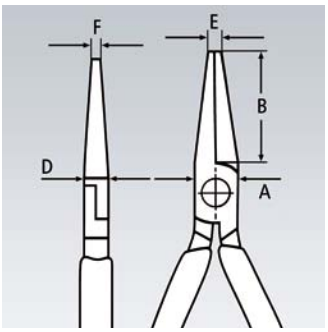
Style 1
flat, wide jaws

Style 2
half-round jaws

Style 3
round, pointed jaws

Pliers Sets
see page 182





Product Number	↔ inch		Style	Pliers	Head	Handles	Dimensions B inch	A inch	D inch	E inch	F inch	⚖ Ounces
34 12 130	5 1/4		1	burnished	polished	with multi-component grips	55/64	7/16	17/64	1/16	9/64	2.2
34 22 130	5 1/4		2	burnished	polished	with multi-component grips	57/64	7/16	17/64	1/16	1/16	2.2
34 32 130	5 1/4		3	burnished	polished	with multi-component grips	15/16	7/16	17/64	5/64	3/64	2.1

Product Number	↔ mm		Style	Pliers	Head	Handles	Dimensions B mm	A mm	D mm	E mm	F mm	⚖ Ounces
34 12 130	135		1	burnished	polished	with multi-component grips	21.9	11.2	6.5	1.4	3.5	2.2
34 22 130	135		2	burnished	polished	with multi-component grips	22.7	11.2	6.5	1.6	1.6	2.2
34 32 130	135		3	burnished	polished	with multi-component grips	23.7	11.2	6.5	2.0	1.0	2.1

Precision Electronics Gripping Pliers ESD

ISO 9655

34 12 130 ESD

34 22 130 ESD

34 32 130 ESD

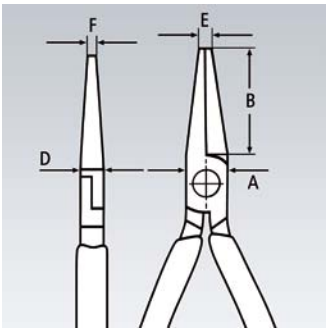
ESD pliers (electrostatic discharge)
- electrostatic energy is discharged through the handles in a gradual and controlled manner
- protects components endangered by electrostatic discharge
- in accordance with applicable standards, e.g. IEC TR 61 340-5, DIN EN 61 340-5, SP Method 2472

- for very precise assembly work, e.g. in electronics and fine mechanics
- for gripping, holding and bending
- electrically discharging handles – dissipative
- smooth gripping surfaces; smooth edges
- approx. 20% lighter than conventional electronics pliers
- bolted joint and carefully manufactured joint surfaces for even, low-friction movement throughout the entire opening range
- double spring for a gentle and even opening
- ergonomically optimized handle covers
- Chrome vanadium ball-bearing steel; forged

Style 1
flat, wide jaws

Style 2
half-round jaws

Style 3
round, pointed jaws



Pliers Sets
see page 182

Product Number	↔ inch		Style	Pliers	Head	Handles	Dimensions B inch	A inch	D inch	E inch	F inch	Ounces
34 12 130 ESD	5 1/4		1	burnished	polished	with multi-component grips	55/64	7/16	17/64	1/16	3/32	2.2
34 22 130 ESD	5 1/4		2	burnished	polished	with multi-component grips	57/64	7/16	17/64	1/16	1/16	2.3
34 32 130 ESD	5 1/4		3	burnished	polished	with multi-component grips	15/16	7/16	17/64	5/64	3/64	2.2

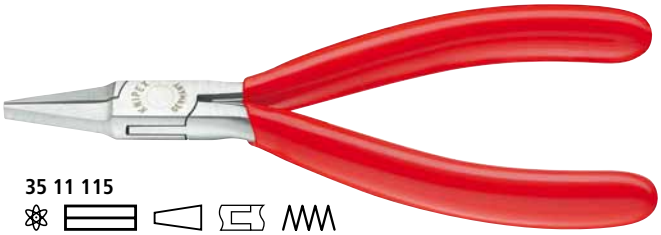
Product Number	↔ mm		Style	Pliers	Head	Handles	Dimensions B mm	A mm	D mm	E mm	F mm	Ounces
34 12 130 ESD	135		1	burnished	polished	with multi-component grips	21.9	11.2	6.5	1.4	3.5	2.2
34 22 130 ESD	135		2	burnished	polished	with multi-component grips	22.7	11.2	6.5	1.6	1.6	2.3
34 32 130 ESD	135		3	burnished	polished	with multi-component grips	23.7	11.2	6.5	2.0	1.0	2.2

35

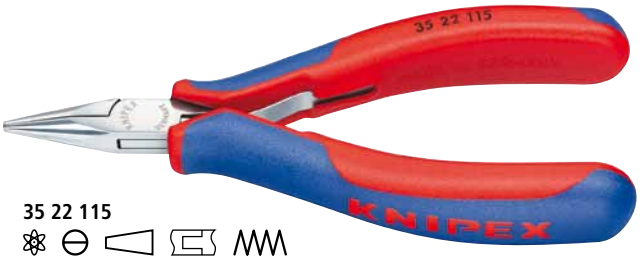
Electronics Pliers

ISO 9655

- precision pliers for ultra fine assembly work, e.g. in electronics and fine mechanics
- for gripping, holding and bending
- precision box joint
- smooth gripping surfaces
- smooth edges
- low-friction double spring for gentle and even opening
- the polish with a fine film of oil offers effective rust protection – no circuit faults caused by peeling chrome from plated tools
- Special tool steel; forged, oil-hardened

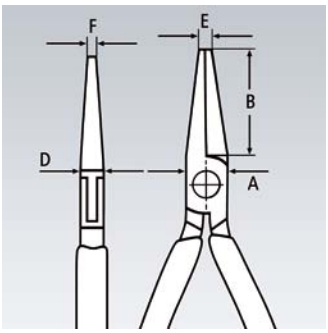


35 11 115

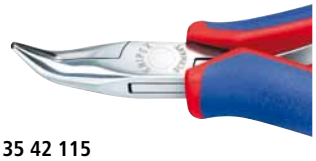


35 22 115

Pliers Sets
see page 182

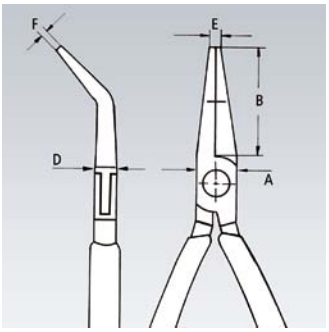


35 32 115



35 42 115

35 52 145



35 62 145

35 72 145

35 82 145

Product Number	↔ inch	↔ mm		Head	Handles	Dimensions B inch	A inch	D inch	E inch	F inch	B mm	A mm	D mm	E mm	F mm	⚖ Ounces
35 11 115	4 1/2	115		polished	plastic coated	57/64	3/8	17/64	5/64	5/32	22.5	9.5	6.5	2.0	4.0	2.2
35 12 115	4 1/2	115		mirror polished	with multi-component grips	57/64	3/8	17/64	5/64	5/32	22.5	9.5	6.5	2.0	4.0	2.5
35 21 115	4 1/2	115		polished	plastic coated	57/64	3/8	17/64	5/64	1/16	22.5	9.5	6.5	2.0	1.5	2.1
35 22 115	4 1/2	115		mirror polished	with multi-component grips	57/64	3/8	17/64	5/64	1/16	22.5	9.5	6.5	2.0	1.5	2.6
35 31 115	4 1/2	115		polished	plastic coated	57/64	3/8	17/64	5/64	3/64	22.5	9.5	6.5	2.0	1.0	2.0
35 32 115	4 1/2	115		mirror polished	with multi-component grips	57/64	3/8	17/64	5/64	3/64	22.5	9.5	6.5	2.0	1.0	2.5
35 42 115	4 1/2	115		mirror polished	with multi-component grips	57/64	3/8	17/64	5/64	1/16	22.5	9.5	6.5	2.0	1.5	2.6
35 52 145	5 3/4	145		mirror polished	with multi-component grips	1 37/64	15/32	19/64	1/16	5/32	40.0	12.0	7.5	1.5	4.0	3.6
35 62 145	5 3/4	145		mirror polished	with multi-component grips	1 37/64	15/32	19/64	3/32	1/16	40.0	12.0	7.5	2.5	1.5	3.6
35 72 145	5 3/4	145		mirror polished	with multi-component grips	1 37/64	15/32	19/64	3/32	3/64	40.0	12.0	7.5	2.5	1.3	3.5
35 82 145	5 3/4	145		mirror polished	with multi-component grips	1 3/8	15/32	19/64	3/32	3/64	35.0	12.0	7.5	2.5	1.0	3.6

35

Electronics Pliers ESD

ISO 9655

35 12 115 ESD

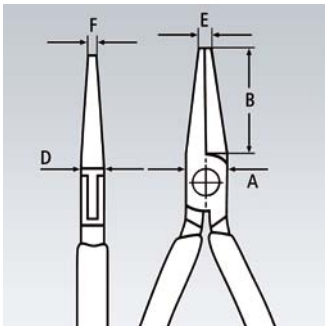
35 22 115 ESD

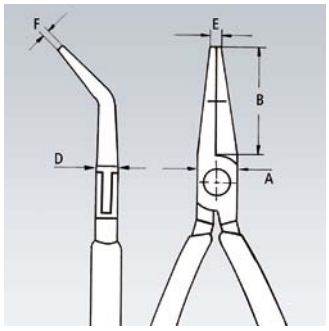
35 42 115 ESD

ESD pliers (electrostatic discharge)
- electrostatic energy is discharged through the handles in a gradual and controlled manner
- protects components endangered by electrostatic discharge
- in accordance with applicable standards, e.g. IEC TR 61 340-5, DIN EN 61 340-5, SP Method 2472

- precision pliers for ultra fine assembly work, e.g. in electronics and fine mechanics
- for gripping, holding and bending
- electrically discharging handles – dissipative
- precision box joint
- smooth gripping surfaces
- smooth edges
- low-friction double spring for gentle and even opening
- the mirror polish together with a fine film of oil offers effective rust protection – no circuit faults caused by peeling chrome from plated tools
- with two-color dual component handles, black/grey
- Special tool steel; forged, oil-hardened

Pliers Sets
see page 182





Product Number	↔ inch	↔ mm		Head	Handles	Dimensions B inch	A inch	D inch	E inch	F inch	B mm	A mm	D mm	E mm	F mm	Ounces
35 12 115 ESD	4 1/2	115		mirror polished	with multi-component grips	57/64	3/8	17/64	5/64	5/32	22.5	9.5	6.5	2.0	4.0	2.6
35 22 115 ESD	4 1/2	115		mirror polished	with multi-component grips	57/64	3/8	17/64	5/64	1/16	22.5	9.5	6.5	2.0	1.5	2.6
35 42 115 ESD	4 1/2	115		mirror polished	with multi-component grips	57/64	3/8	17/64	5/64	1/16	22.5	9.5	6.5	2.0	1.5	2.6

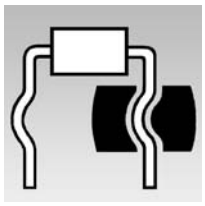
36

Electronics Mounting Pliers

ISO 5743

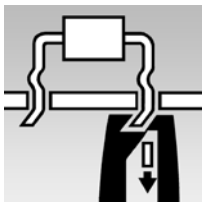
- precision pliers for very fine assembly and repair work in electronics
- for bending and cutting off wire ends on components
- precision box joint
- smooth gripping surfaces
- smooth edges
- low-friction double spring for gentle and even opening
- the mirror polish together with a fine film of oil offers effective rust protection – no circuit faults caused by peeling chrome from plated tools
- High-grade special tool steel; forged, oil-hardened

36 12 130



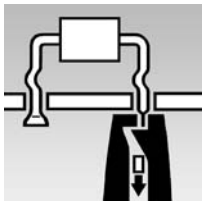
36 12 130
to bend wire in shape for the distance to the plate

36 22 125

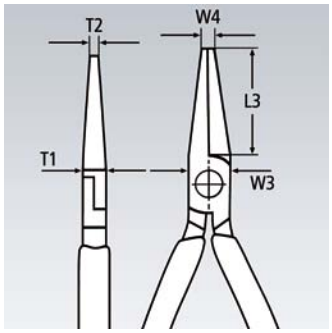


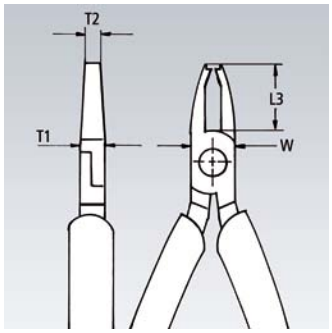
36 22 125
to bend and cut wire at 1/16" length below the plate

36 32 125



36 32 125
to crunch and cut wire at 1/16" length below the plate





Product Number	↔ inch		Head	Handles	Cutting capacities Ø inch	Dimensions L3 inch	W inch	T1 inch	W1 inch	T2 inch	Ounces
36 12 130	5 1/4		mirror polished	with multi-component grips		29/32	15/32	3/8	7/32	15/64	3.3
36 22 125	5		mirror polished	with multi-component grips	3/64	23/32	29/64	19/64	19/64	3/32	3.3
36 32 125	5		mirror polished	with multi-component grips	3/64	23/32	29/64	19/64	19/64	5/32	3.8

Product Number	↔ mm		Head	Handles	Cutting capacities Ø mm	Dimensions L3 mm	W mm	T1 mm	W1 mm	T2 mm	Ounces
36 12 130	130		mirror polished	with multi-component grips		23.0	12.0	9.5	5.5	6.0	3.3
36 22 125	125		mirror polished	with multi-component grips	1.2	18.0	11.5	7.5	7.5	2.6	3.3
36 32 125	125		mirror polished	with multi-component grips	1.0	18.0	11.5	7.5	7.5	4.0	3.8

Gripping Pliers for precision mechanics

ISO 9655

- precision pliers for ultra fine assembly work, e.g. in electronics and fine mechanics
- for gripping, holding, bending and adjusting
- precision tips
- smooth gripping surfaces
- smooth edges
- lap joint
- Chrome vanadium electric steel; forged, oil-hardened

37 11 125

37 21 125

37 31 125

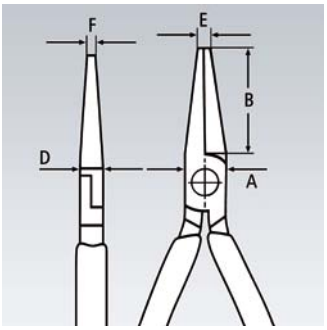
37 43 125

Style 1
flat, wide jaws

Style 2
flat, concave and pointed jaws

Style 3
half-round jaws

Style 4
round, pointed jaws to bend wire loops



Product Number	↔ inch		Style	Pliers	Head	Handles	Dimensions B inch	A inch	D inch	E inch	F inch	⚖ Ounces
37 11 125	5		1	black atramentized	polished	plastic coated	1 1/16	31/64	9/32	5/64	7/32	2.7
37 21 125	5		2	black atramentized	polished	plastic coated	1 1/16	31/64	9/32	5/64	5/64	2.6
37 31 125	5		3	black atramentized	polished	plastic coated	1 1/16	31/64	9/32	5/64	1/16	2.6
37 43 125	5		4	chrome plated		plastic coated	1 1/16	37/64	5/16	5/64	3/64	2.7

Product Number	↔ mm		Style	Pliers	Head	Handles	Dimensions B mm	A mm	D mm	E mm	F mm	⚖ Ounces
37 11 125	125		1	black atramentized	polished	plastic coated	27.0	12.5	7.0	2.0	5.5	2.7
37 21 125	125		2	black atramentized	polished	plastic coated	27.0	12.5	7.0	2.0	2.0	2.6
37 31 125	125		3	black atramentized	polished	plastic coated	27.0	12.5	7.0	2.0	1.6	2.6
37 43 125	125		4	chrome plated		plastic coated	27.0	14.5	8.0	2.0	1.0	2.7

38

Mechanics' Pliers

ISO 5745

- high-strength jaws and tips bend and snap back into place easily – no deformation
- cross-hatched gripping surfaces, knurled
- Vanadium electric steel; forged, oil-hardened

38 11 200

38 21 200

∡40°

38 31 200

38 41 190

38 71 200

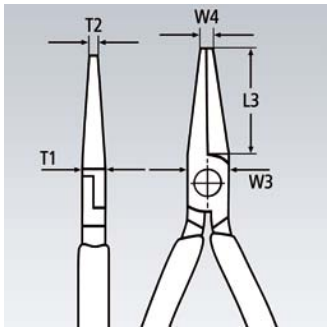
∡70°

Style 7
70° angled, half-round jaws, suitable for pulling split pins; for gripping at points that are difficult to access

38 91 200

∡45°

Style 9
45° angled, half-round, long jaws, also suitable for gripping spark plug covers and round components



Product Number	↔ inch	↔ mm		Style	Pliers	Head	Handles	Dimensions L3 inch	W3 inch	T1 inch	W4 inch	T2 inch	L3 mm	W3 mm	T1 mm	W4 mm	T2 mm	⚖ Ounces
38 11 200	8	200	⊖	1	black atramentized	polished	plastic coated	2 7/8	11/16	3/8	1/8	3/32	73.0	17.5	9.5	3.0	2.5	6.3
38 21 200	8	200	∡40° ⊖	2	black atramentized	polished	plastic coated	2 7/8	11/16	3/8	1/8	3/32	73.0	17.5	9.5	3.0	2.5	6.2
38 31 200	8	200	⊖	3	black atramentized	polished	plastic coated	2 7/8	11/16	3/8	1/8	3/32	73.0	17.5	9.5	3.0	2.5	6.2
38 35 200	8	200	⊖	3	chrome plated		with multi-component grips	2 7/8	11/16	3/8	1/8	3/32	73.0	17.5	9.5	3.0	2.5	7.2
38 41 190	7 1/2	190	▭	4	black atramentized	polished	plastic coated	1 31/32	23/32	5/16	5/64	5/16	50.0	18.0	8.0	2.0	8.0	4.9
38 71 200	8	200	∡70° ⊖	7	black atramentized	polished	plastic coated	2 7/8	11/16	3/8	1/8	5/64	73.0	17.5	9.5	3.0	2.0	6.1
38 91 200	8	200	∡45° ⊖	9	black atramentized	polished	plastic coated	2 7/8	11/16	3/8		3/32	73.0	17.5	9.5		2.5	6.0

40

Universal Grip Pliers

- tightly holds round or flat material
- heavy duty
- with adjustment screw and release lever
- one-handed operation
- high clamping pressure due to toggle lever action
- pliers body: rolled steel; high-strength, forged, oil-hardened
- gripping jaws: Chrome vanadium electric steel; forged

40 04 250

Product Number	↔ inch	↔ mm		○ inch	□ inch	⬡ inch	○ mm	□ mm	⬡ mm	⚖ Ounces
40 04 180	7 1/4	180		1 3/8	63/64	1 1/4	35.0	25.0	32.0	10.9
40 04 250	10	250		1 3/8	1 3/16	1 1/4	35.0	30.0	32.0	18.4

41

Grip Pliers

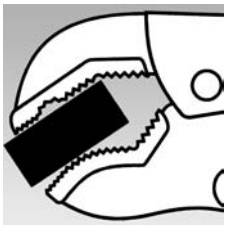
- tightly holds round or flat material
- heavy duty
- with adjustment screw and release lever
- one-handed operation
- high clamping pressure due to toggle lever action
- pliers body: rolled steel; high-strength, forged, oil-hardened
- gripping jaws: Chrome vanadium electric steel; forged

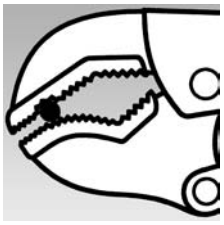
41 04 250

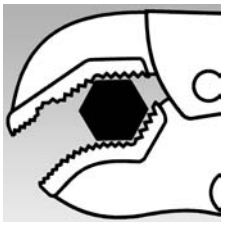
Style 0
jaws for round workpieces; with wire cutter

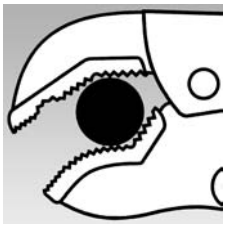
41 14 250

Style 1
jaws with double prism for round, section and flat material









41 34 165

Style 3
long nose grip pliers; narrow, long jaws

Product Number	↔ inch	↔ mm		Style	Pliers	○ inch	□ inch	⬡ inch	○ mm	□ mm	⬡ mm	⚖ Ounces
41 04 180	7 1/4	180				1 3/16	51/64	1 3/16	30.0	20.0	30.0	12.8
41 04 250	10	250		0	nickel plated	1 37/64	51/64	1 3/16	40.0	20.0	30.0	18.2
41 04 300	12	300				2 19/32	1 3/16	1 11/32	65.0	30.0	34.0	32.6
41 14 250	10	250		1	nickel plated	1 27/64	1 27/64	1 27/64	36.0	36.0	36.0	19.6
41 34 165	6 1/4	165		3	nickel plated	51/64	25/64	15/16	20.0	10.0	24.0	6.7

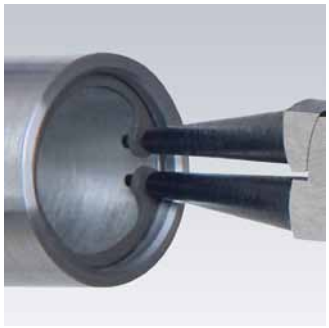

KNIPEX
40 - 100 mm

44

Circlip Pliers

for internal circlips on bore holes

- for fitting circlips on bore holes, range of application from 5/16" - 5 33/64" dia.
- solid style, forged
- non-slip, solid tips
- pliers body and tips: Chrome vanadium steel; forged, oil-hardened



44 11 J2

44 21 J21
90°

Style 1
DIN 5256 C, straight tips

Style 2
DIN 5254 B; 90° angled tips

Style 3
45° angled tips

44 31 J22
45°

Pliers Sets
see page 176

Product Number	↔ inch	↔ mm		Style	Pliers	Head	Handles	Size of bore Ø inch	Size of bore Ø mm	⚖ Ounces
44 11 J0	5 3/4	140						5/16 - 33/64	8 - 13	3.1
44 11 J1	5 3/4	140						15/32 - 63/64	12 - 25	3.1
44 11 J2	8	180		1	black atramentized	polished	plastic coated	3/4 - 2 23/64	19 - 60	4.8
44 11 J3	9	225						1 37/64 - 3 15/16	40 - 100	6.9
44 11 J4	12 3/4	320						3 23/64 - 5 33/64	85 - 140	16.5
44 21 J01	5 1/4	130						5/16 - 33/64	8 - 13	3.1
44 21 J11	5 1/4	130						15/32 - 63/64	12 - 25	3.1
44 21 J21	6 3/4	170	90°	2	black atramentized	polished	plastic coated	3/4 - 2 23/64	19 - 60	4.9
44 21 J31	8 1/2	215						1 37/64 - 3 15/16	40 - 100	6.9
44 21 J41	12	300						3 23/64 - 5 33/64	85 - 140	16.3
44 31 J02	5 3/4	140						5/16 - 33/64	8 - 13	3.2
44 31 J12	5 3/4	140						15/32 - 63/64	12 - 25	3.2
44 31 J22	8	180	45°	3	black atramentized	polished	plastic coated	3/4 - 2 23/64	19 - 60	4.9
44 31 J32	9	225						1 37/64 - 3 15/16	40 - 100	6.9
44 31 J42	12	310						3 23/64 - 5 33/64	85 - 140	16.4

46

Circlip Pliers

for external circlips on shafts

- for fitting circlips on shafts, range of application from 1/8" - 5 33/64" dia.
- solid style, forged
- non-slip, solid tips
- pliers body and tips: Chrome vanadium steel; forged, oil-hardened

46 11 A2

Style 1
DIN 5254 A; straight tips

Style 2
DIN 5254 B; 90° angled tips

Style 3
45° angled tips

46 21 A21

46 31 A22

Pliers Sets
see page 176

Product Number	↔ inch	↔ mm		Style	Pliers	Head	Handles	Size of shaft Ø inch	Size of shaft Ø mm	⚖ Ounces
46 11 A0	5 3/4	140						1/8 - 25/64	3 - 10	3.0
46 11 A1	5 3/4	140						25/64 - 63/64	10 - 25	3.0
46 11 A2	8	180		1	black atramentized	polished	plastic coated	3/4 - 2 23/64	19 - 60	4.7
46 11 A3	8 1/4	210						1 37/64 - 3 15/16	40 - 100	7.8
46 11 A4	12 3/4	320						3 23/64 - 5 33/64	85 - 140	17.8
46 21 A01	5	125						1/8 - 25/64	3 - 10	3.0
46 21 A11	5	125						25/64 - 63/64	10 - 25	3.0
46 21 A21	6 3/4	170		2	black atramentized	polished	plastic coated	3/4 - 2 23/64	19 - 60	4.7
46 21 A31	8	200						1 37/64 - 3 15/16	40 - 100	7.7
46 21 A41	12	300						3 23/64 - 5 33/64	85 - 140	18.0
46 31 A02	5 1/4	130						1/8 - 25/64	3 - 10	2.9
46 31 A12	5 1/4	130						25/64 - 63/64	10 - 25	3.0
46 31 A22	7 1/4	185		3	black atramentized	polished	plastic coated	3/4 - 2 23/64	19 - 60	4.7
46 31 A32	8 1/4	210						1 37/64 - 3 15/16	40 - 100	7.5
46 31 A42	12	310						3 23/64 - 5 33/64	85 - 140	18.0

44

Circlip Pliers

for large internal circlips

44 10 J6

- for assembling circlips in bore holes within the range of 4 51/64" - 15 3/4" dia.
- with locking device – can be released without completing cycle
- with replaceable tips made of tempered steel
- black powder-coated
- pliers body: rolled steel, high-strength
- tips: Special tool steel; rolled, oil-hardened

Style 1
DIN 5256 C, straight tips

Style 2
DIN 5256 D; 90° angled tips

Product Number	↔ inch	↔ mm		Style	Pliers	Size of bore Ø inch	Size of bore Ø mm	⚖ Ounces
44 10 J5	22 1/4	570		1	black powder-coated	4 51/64 - 11 13/16	122 - 300	61.0
44 10 J6	22	580				9 59/64 - 15 3/4	252 - 400	62.0
44 20 J51	23 1/4	590	90°	2	black powder-coated	4 51/64 - 11 13/16	122 - 300	64.0
44 20 J61	23 1/2	600				9 59/64 - 15 3/4	252 - 400	61.0

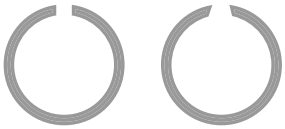
44 19 J6		1 pair of spare tips for 44 10 J6

45

Special Retaining Ring Pliers

for retaining rings on shafts

ISO 5743



- for fitting horseshoe-shaped spring retaining rings and circlips without grip holes
- for shaft retaining devices
- with opening spring
- Chrome vanadium electric steel; forged, oil-hardened

45 10 170

45 10 170

45 21 200

45 21 200

45 21 200

45 10 170
for retaining rings with a minimum ring split gap of 9/64"

45 21 200
anlged jaws with centering hole; for retaining rings from 15/36" dia., e.g. for securing drive shaft in the gearbox of a motor vehicle; minimum ring split gap of the rings 3/32"

Product Number	↔ inch	↔ mm		Pliers	Handles	⚖ Ounces
45 10 170	6 3/4	170		burnished		5.5
45 21 200	8	200	30°	burnished	plastic coated	6.6

46

Circlip Pliers

for large external circlips

46 10 A5

- for assembling circlips on shafts within the range of 4 51/64" - 15 3/4" dia.
- with locking device – can be released without completing cycle
- with replaceable tips made of tempered steel
- black powder-coated
- pliers body: rolled steel, high-strength
- tips: Special tool steel; rolled, oil-hardened

Style 1
DIN 5254 A; straight tips

Style 2
DIN 5254 B; 90° angled tips

Product Number	↔ inch	↔ mm		Style	Pliers	Size of shaft Ø inch	Size of shaft Ø mm	Ounces
46 10 A5	22 1/2	560		1	black powder-coated	4 51/64 - 11 13/16	122 - 300	62.5
46 10 A6	22 3/4	570				9 59/64 - 15 3/4	252 - 400	63.3
46 20 A51	22 3/4	570	90°	2	black powder-coated	4 51/64 - 11 13/16	122 - 300	65.0
46 20 A61	22 3/4	580				9 59/64 - 15 3/4	252 - 400	64.4

46

Circlip Pliers for grip rings on shafts

ISO 5743

46 11 G0

46 11 G2

- for fitting grip rings on shafts from 1/16" - 1 3/16" dia.
- with opening spring
- solid style, forged
- non-slip, solid tips
- pliers body and tips: Chrome vanadium stainless steel; forged, oil-hardened

46 11 G0
for rings of 1/16" - 1 3/16"dia.,
with adjustable stop screw to prevent overstretching

Product Number	↔ inch	↔ mm		Pliers	Head	Handles	Size of shaft Ø inch	Size of shaft Ø mm	Ounces
46 11 G0	5 1/2	140		black atramentized	polished	plastic coated	1/16 - 5/36	1.5 - 4.0	3.1
46 11 G1	5 1/2	140		black atramentized	polished	plastic coated	5/32 - 9/32	4.0 - 7.0	3.0
46 11 G2	5 1/2	140					13/64 - 33/64	5.0 - 13.0	3.0
46 11 G3	5 1/2	140					35/64 - 23/32	14.0 - 18.0	3.0
46 11 G4	7 1/4	180					51/64 - 1 3/16	20.0 - 30.0	4.7

Precision Circlip Pliers

for internal circlips in bore holes

48 11 J2

48 21 J21

Tip-top quality
Easy and reliable assembly: form-fitting inserted and pressed-in tips made of high-density spring steel offer a high level of protection against excessive stress and strain, e.g. when removing rings that are stuck. The large supporting surfaces and the position of the tips make it more difficult for the rings to fly off.

With inserted tips for reliable work

- heavy duty for continuous operation: up to 10 times longer service life than turned tips
- bolted joint: precise, zero backlash operation of pliers
- non-slip plastic coating on the handles
- pliers body: Chrome vanadium electric steel; forged, oil-hardened
- inserted tips: spring steel wire, drawn

Style 1
DIN 5256 C, straight tips

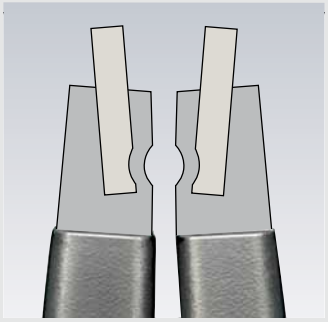
Style 2
DIN 5256 D; 90° angled tips

Pliers Sets
see page 176

Precision and durability
High-density spring steel with a score-free surface is used for the tips. This increases the tips' resistance to dynamic and static strain. The tips are 30% more stable than conventional pliers when subjected to one-off overloading, while still allowing good accessibility during assembly. Subjected to dynamic strain, the tips' resistance capacity is up to 10 times greater! The tips on the Precision Circlip Pliers are non-detachable!

Slim head shape

Sturdy, inserted tips:
made from high-density spring steel



Tight fit through compression

Product Number	↔ inch	↔ mm		Style	Pliers	Handles	Size of bore Ø inch	Size of bore Ø mm	Tips Ø inch	Tips Ø mm	Ounces
48 11 J0	5 3/4	140					5/16 - 33/64	8 - 13	3/64	0.90	3.7
48 11 J1	5 3/4	140					15/32 - 63/64	12 - 25	3/64	1.25	3.7
48 11 J2	8	180		1	grey atramentized	plastic coated	3/4 - 2 23/64	19 - 60	5/64	1.80	6.2
48 11 J3	9	225					1 37/64 - 3 15/16	40 - 100	3/32	2.25	9.4
48 11 J4	12 3/4	320					3 23/64 - 5 33/64	85 - 140	1/8	3.20	20.5
48 21 J01	5 1/4	130					5/16 - 33/64	8 - 13	3/64	0.90	3.7
48 21 J11	5 1/4	130					15/32 - 63/64	12 - 25	3/64	1.25	3.7
48 21 J21	6 1/2	165	90°	2	grey atramentized	plastic coated	3/4 - 2 23/64	19 - 60	5/64	1.80	6.2
48 21 J31	8 1/4	210					1 37/64 - 3 15/16	40 - 100	3/32	2.25	9.3
48 21 J41	12	305					3 23/64 - 5 33/64	85 - 140	1/8	3.20	20.3

49

Precision Circlip Pliers

for external circlips on shafts

49 11 A2

Style 1
DIN 5254 A, straight tips

49 21 A21

Style 2
DIN 5254 B; 90° angled tips

With inserted tips for reliable work

- heavy duty for continuous operation: up to 10 times longer service life than turned tips
- large contact faces on the tips: no distortion of circlips, easy fitting
- joint with screw: precise, zero-backlash operation of pliers
- internal opening spring, protected
- non-slip plastic coating on the handles
- pliers body: Chrome vanadium electric steel; forged, oil-hardened
- inserted tips: spring steel wire, drawn

49 31 A0 / Style 3
with additional opening limiter (continuously adjustable opening area); avoids overstretching of small external circlips; DIN 5254 A; straight tips

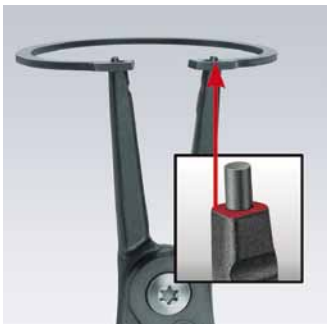
49 41 A01 / Style 4
with additional opening limiter (continuously adjustable opening area); avoids overstretching of small external circlips; DIN 5254 B; 90° angled tips

Spring inside the joint: the spring is protected inside the precisely bolted joint. It does not hinder work and cannot get dirty or lost.

Style 3 / Style 4:
With adjustable restricted opening

Pliers Sets
see page 176

Bolted joint:
high precision and smooth action



KNIPEX Precision Circlip Pliers:
fit circlips without distortion; easy and quick assembly

Circlips are held securely: large contact faces and the position of the tips make it difficult for the circlip to bounce off

Conventional Circlip Pliers:
distortion of the circlip when being fitted is possible

Product Number	↔ inch	↔ mm		Style	Pliers	Handles	Size of shaft Ø inch	Size of shaft Ø mm	Tips Ø inch	Tips Ø mm	⚖ Ounces
49 11 A0	5 3/4	140					1/8 - 25/64	3 - 10	3/64	0.90	3.6
49 11 A1	5 3/4	140					25/64 - 63/64	10 - 25	3/64	1.25	3.5
49 11 A2	8	180		1	grey atramentized	plastic coated	3/4 - 2 23/64	19 - 60	5/64	1.80	6.0
49 11 A3	9	225					1 37/64 - 3 15/16	40 - 100	3/32	2.25	9.5
49 11 A4	12 3/4	320					3 22/64 - 5 33/64	85 - 140	1/8	3.20	21.0
49 21 A01	5 1/4	130					1/8 - 25/64	3 - 10	3/64	0.90	3.5
49 21 A11	5 1/4	130					25/64 - 63/64	10 - 25	3/64	1.25	3.6
49 21 A21	6 1/2	165	90°	2	grey atramentized	plastic coated	3/4 - 2 23/64	19 - 60	5/64	1.80	5.6
49 21 A31	8 1/4	210					1 37/64 - 3 15/16	40 - 100	3/32	2.25	9.6
49 21 A41	12	305					3 22/64 - 5 33/64	85 - 140	1/8	3.20	21.2
49 31 A0	5 3/4	140		3	grey atramentized	plastic coated	1/8 - 25/64	3 - 10	3/64	0.90	3.6
49 41 A01	5 1/4	130	90°	4	grey atramentized	plastic coated	1/8 - 25/64	3 - 10	3/64	0.90	3.6

46

Circlip Tool

for internal and external circlips

- universally usable for large circlips with nominal diameters of 15 3/4" - 39 3/8"
- reliable opening and closing of the circlips and holding by self-locking precision spindle drive
- for fitting and removing circlips in one operation
- circlips are securely held thanks to short, direct attachment
- replaceable tips with 15/64" and 23/64" diameters; for perfect adaptation to the actuation bores in the circlips
- optional operation with hexagonal key, ratchet wrench or cordless drill
- areas of application e.g. wind turbines, tidal power stations, generator construction, hydropower stations, large machine construction (rolling mills, presses), shipbuilding and aerospace – wherever very high forces and torques are transmitted with large shafts and bearings
- tip material: Chrome vanadium electric steel

Product Number	Size of bore Ø inch	Size of bore Ø mm	Size of shaft Ø inch	Size of shaft Ø mm	⚖ Ounces
46 10 100	15 3/4 - 39 3/8	400 - 1,000	15 3/4 - 39 3/8	400 - 1,000	77.6

Replaceable inserts for internal and external circlips

Manually operable

Machine operable

50

Carpenters' Pincers

ISO 9243

50 01 225

- heavy duty
- the Carpenters' Pincers preferred by tradespeople
- wear-resistant
- cutting edges with additional hardness; cutting edge hardness approx. 60 HRC
- Special tool steel; forged, oil-hardened

Product Number	↔ inch	↔ mm		Pliers	Head	Handles	Cutting capacities ◐ Ø inch	◐ Ø mm	⚖ Ounces
50 01 160	6 1/4	160		black atramentized	polished	plastic coated	5/64	1.8	7.9
50 01 180	7 1/4	180					5/64	2.0	11.1
50 01 210	8 1/4	210					3/32	2.2	14.5
50 01 225	9	225					3/32	2.2	15.4
50 01 250	10	250					3/32	2.2	20.6
50 01 300	12	300					3/32	2.4	31.9

51

Carpenters' Pincers

ISO 9243

51 01 210

- with striking face for driving in nails
- cutting edges with additional hardness; cutting edge hardness approx. 60 HRC
- Special tool steel; forged, oil-hardened

Product Number	↔ inch	↔ mm		Pliers	Head	Handles	⚖ Ounces
51 01 210	8 1/4	210		black atramentized	polished	plastic coated	14.6

55

Farriers' Pincers

ISO 5743

55 00 300

- the ideal pliers for the farrier
- with small head and reversing groove
- also suitable for dismantling work in vehicle body workshops
- cutting edges with additional hardness; cutting edge hardness approx. 59 HRC
- Special tool steel; forged, oil-hardened

Product Number	↔ inch	↔ mm		Pliers	Head	Head width inch	mm	⚖ Ounces
55 00 300	12	300		black atramentized	polished	51/64	20.0	28.0

57

Farriers' Pincers

ISO 5743

- the ideal pliers for the farrier
- suitable for dismantling work in vehicle body workshops
- also for dismantling work with timber and metal
- cutting edges with additional hardness; cutting edge hardness approx. 59 HRC
- Special tool steel; forged, oil-hardened

57 00 360

Product Number	↔ inch	↔ mm		Pliers	Head	Head width inch	Head width mm	⚖ Ounces
57 00 360	14 1/4	360		black atramentized	polished	1 13/64	30.5	41.1

990

Concretors' Nippers

ISO 9242

- to twist and cut wire in one operation; fast, reliable and economical
- unobtained precision and long service life make these the most widely purchased concretors' nippers in the world
- cutting edges with additional hardness; cutting edge hardness approx. 61 HRC
- High-grade special tool steel; forged, oil-hardened

99 00 280

99 04 250

99 01 220

Product Number	↔ inch	↔ mm		Pliers	Head	Handles	Cutting capacities ◐ Ø inch	Cutting capacities ◕ Ø inch	Cutting capacities ◐ Ø mm	Cutting capacities ◕ Ø mm	⚖ Ounces
99 00 200	8	200					5/64	1/16	1.8	1.4	8.1
99 00 220	8 3/4	220					3/32	1/16	2.4	1.6	11.1
99 00 250	10	250		black atramentized	polished		3/32	1/16	2.4	1.6	11.8
99 00 280	11	280					7/64	5/64	2.8	1.8	16.0
99 00 300	12	300					1/8	5/64	3.1	1.8	18 .0
99 01 200	8	200					5/64	1/16	1.8	1.4	8.7
99 01 220	8 3/4	220					3/32	1/16	2.4	1.6	11.8
99 01 250	10	250		black atramentized	polished	plastic coated	3/32	1/16	2.4	1.6	15.1
99 01 280	11	280					7/64	5/64	2.8	1.8	17.6
99 01 300	12	300					1/8	5/64	3.1	1.8	19.3

99 1

High Leverage Concretors' Nippers

high lever transmission

ISO 9242

25% reduction in required force
compared to conventional concretor's pliers of the same size

99 10 250

- for use when working with concrete steel and binding wire
- twists and cuts wire in one operation
- high leverage joint minimizes strain when working with thick wires
- extra slim design for reaching into deep or confined areas
- high leverage design reduces strain on tendons and muscles
- cutting edge hardness approx. 61 HRC
- High-grade special tool steel; forged, oil-hardened

99 10 300

99 11 300

99 14 250

99 14 300

Product Number	↔ inch	↔ mm		Pliers	Head	Handles	Cutting capacities Ø inch	Ø inch	Ø mm	Ø mm	Head width inch	mm	Ounces
99 10 250	10	250		black atramentized	polished		1/8	5/64	3.3	1.8	29/32	23.0	12.3
99 10 300	12	300					5/32	5/64	3.8	2.0	63/64	25.0	17.7
99 11 250	10	250		black atramentized	polished	plastic coated	1/8	5/64	3.3	1.8	29/32	23.0	12.3
99 11 300	12	300					5/32	5/64	3.8	2.0	63/64	25.0	18.9
99 14 250	10	250		nickel plated			1/8	5/64	3.3	1.8	29/32	23.0	12.3
99 14 300	12	300					5/32	5/64	3.8	2.0	63/64	25.0	17.6

61

Bolt End Cutting Nippers

high lever transmission ISO 5743

Powerful, compact, comfortable

- features a greater cutting capacity and requires less effort than conventional end cutting nippers
- cuts nails, small bolts and all wires including piano wire
- exceptional cutting capacity due to high leverage joint
- cutting edge hardness approx. 64 HRC
- Vanadium electric steel; forged, oil-hardened

61 01 200

∡85°

High cutting performance: also for piano wire

Almost flush cutting of bolts, nails etc.

Perfect for use when working with fencing

Product Number	↔ inch		Pliers	Head	Handles	Cutting capacities Ø inch	Ø inch	Ø inch	Ø inch	Ounces
61 01 200	8	∡85°	black atramentized	polished	plastic coated	3/64 - 15/64	5/32	9/64	1/8	15.3

Product Number	↔ mm		Pliers	Head	Handles	Cutting capacities Ø mm	Ø mm	Ø mm	Ø mm	Ounces
61 01 200	200	∡85°	black atramentized	polished	plastic coated	1.0 - 6.0	4.0	3.5	3.0	15.3

62

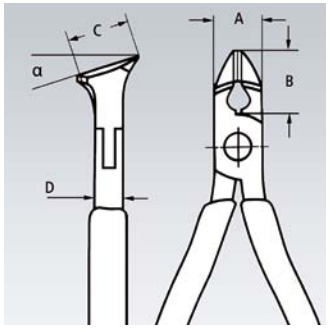
Electronics Oblique Cutting Nippers

ISO 9654

62 12 120

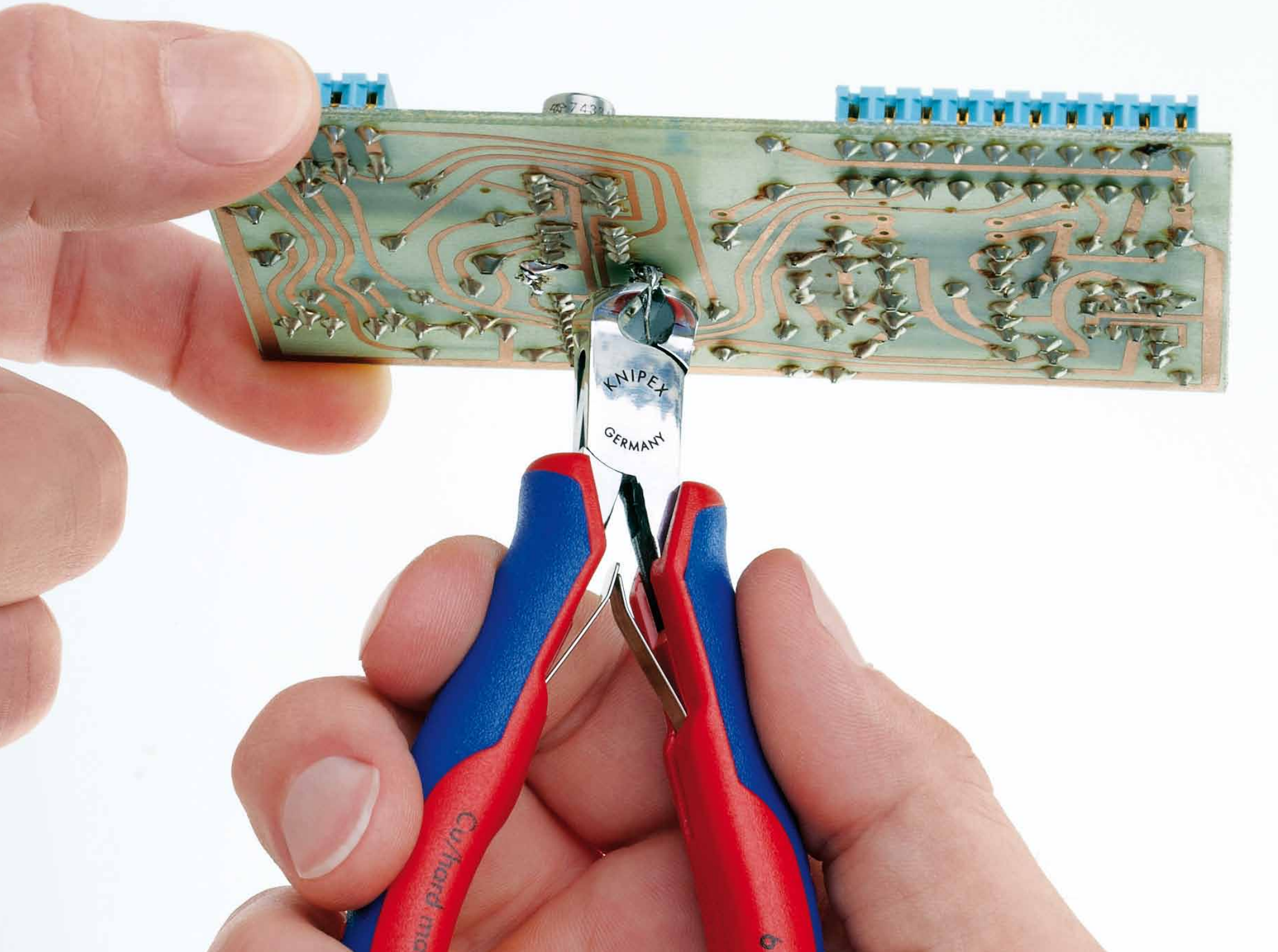
⚛ ∡15°

- with cutting edges for soft and medium hard wire
- without bevel; for flush cutting
- cutting edge hardness approx. 58 HRC
- low-friction double spring for gentle and even opening
- precision box joint
- the polish together with a fine film of oil, offers effective rust protection – no circuit faults caused by peeling chrome from plated tools
- Vanadium electric steel; forged, oil-hardened



Product Number	↔ inch		Head	Handles	Cutting capacities Ø inch	Ø inch	Dimensions A inch	B inch	C inch	D inch	Ounces
62 12 120	4 3/4	⚛ ∡15°	polished	with multi-component grips	1/64 - 3/64	1/32	7/16	25/64	19/64	43/64	3.3

Product Number	↔ mm		Head	Handles	Cutting capacities Ø mm	Ø mm	Dimensions A mm	B mm	C mm	D mm	Ounces
62 12 120	120	⚛ ∡15°	polished	with multi-component grips	0.3 - 1.0	0.7	11	10	7.5	17	3.3


KNIPEX
GERMANY

Electronics End Cutting Nippers

ISO 9654

- precision pliers for ultra fine cutting work, e.g. in electronics and fine mechanics
- precision box joint
- low-friction double spring for gentle and even opening
- the polish or mirror polish (only finish 2), together with a fine film of oil, offers effective rust protection – no circuit faults caused by peeling chrome from plated tools
- cutting edge hardness at least 56 HRC
- High-grade special tool steel; forged, oil-hardened

64 02 115
90°

64 12 115
90°

64 22 115
90°

64 32 120
15°

64 42 115
27°

64 52 115
27°

64 62 120
65°

64 72 120
35°

Style 0
End Cutter, with bevel

64 11 115
End Cutter, without bevel

64 12 115
End Cutter, with small bevel

Style 2
End Cutter, mini-blade with small bevel

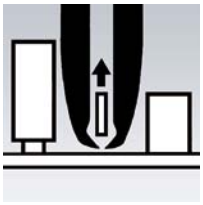
Style 3
Oblique End Cutter, short head, with small bevel, α = 15°

Style 4
Oblique End Cutter, short head, with small bevel, α = 27°

Style 5
Oblique End Cutter, short head, without bevel, for flush cutting, α = 27°

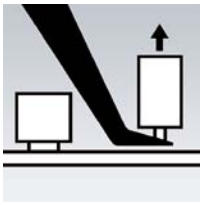
Style 6
Oblique End Cutter, mini-blade with small bevel, α = 65°

Style 7
Oblique End Cutter, mini-blade with small bevel, head with recess, α = 35°



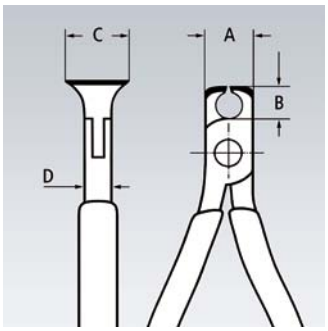
64 22 115

Pliers Sets
see page 182

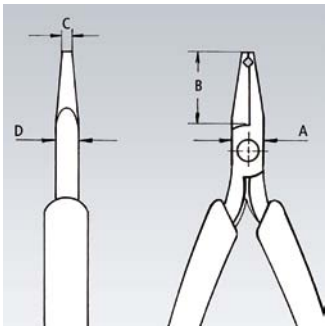


64 62 120

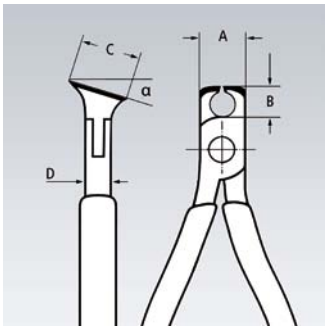
64 72 120



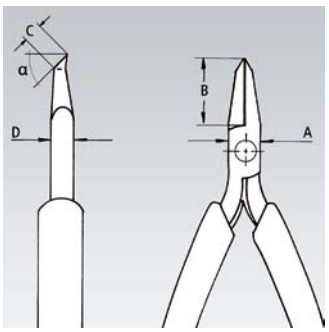
64 02/11/12



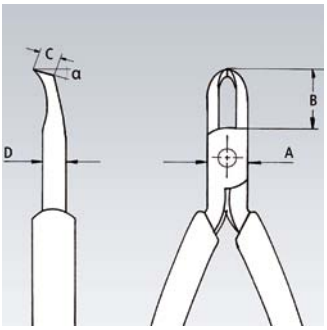
64 22 115



64 32/42/52



64 62 120



64 72 120

Product Number	↔ inch		Style	Head	Handles	Cutting capacities Ø inch	Ø inch	Ø inch	Dimensions A inch	B inch	D inch	C inch	Ounces
64 02 115	4 1/2	∠90°	0	mirror polished	with multi-component grips	5/64	3/64	1/64	7/16	15/64	19/64	5/8	3.3
64 11 115	4 1/2	∠90°	1	polished	plastic coated	1/16	1/32		7/16	15/64	9/32	5/8	2.6
64 12 115	4 1/2	∠90°	1	mirror polished	with multi-component grips	5/64	1/32	1/64	7/16	15/64	9/32	5/8	3.2
64 22 115	4 1/2	∠90°	2	mirror polished	with multi-component grips	1/32			25/64	51/64	15/64	1/8	2.3
64 32 120	4 3/4	∠15°	3	mirror polished	with multi-component grips	1/16	3/64	1/64	7/16	25/64	9/32	43/64	3.2
64 42 115	4 1/2	∠27°	4	mirror polished	with multi-component grips	1/16	3/64	1/64	13/32	25/64	9/32	15/32	2.4
64 52 115	4 1/2	∠27°	5	mirror polished	with multi-component grips	3/64			13/32	25/64	9/32	15/32	2.4
64 62 120	4 3/4	∠65°	6	mirror polished	with multi-component grips	1/64			3/8	47/64	15/64	13/64	2.5
64 72 120	4 3/4	∠35°	7	mirror polished	with multi-component grips	1/16			15/32	49/64	9/32	13/64	3.4

Product Number	↔ mm		Style	Head	Handles	Cutting capacities Ø mm	Ø mm	Ø mm	Dimensions A mm	B mm	D mm	C mm	Ounces
64 02 115	115	∠90°	0	mirror polished	with multi-component grips	2.0	1.0	0.6	11.0	6.0	7.5	16.0	3.3
64 11 115	115	∠90°	1	polished	plastic coated	1.4	0.8		11.0	6.0	7.0	16.0	2.6
64 12 115	115	∠90°	1	mirror polished	with multi-component grips	2.0	0.8	0.5	11.0	6.0	7.0	16.0	3.2
64 22 115	115	∠90°	2	mirror polished	with multi-component grips	0.8			10.0	20.0	6.0	3.0	2.3
64 32 120	120	∠15°	3	mirror polished	with multi-component grips	1.5	1.0	0.5	11.0	10.0	7.0	17.0	3.2
64 42 115	115	∠27°	4	mirror polished	with multi-component grips	1.5	1.0	0.5	10.5	10.0	7.0	12.0	2.4
64 52 115	115	∠27°	5	mirror polished	with multi-component grips	1.3			10.5	10.0	7.0	12.0	2.4
64 62 120	120	∠65°	6	mirror polished	with multi-component grips	0.6			9.5	18.5	6.0	5.0	2.5
64 72 120	120	∠35°	7	mirror polished	with multi-component grips	1.5			12.0	19.5	7.0	5.0	3.4

64

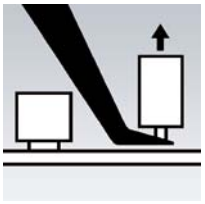
Electronics End-Cutting Nippers ESD

ISO 9654

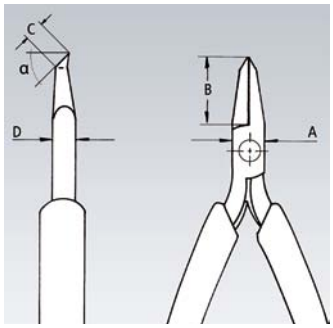
64 62 120 ESD

ESD pliers (electrostatic discharge)
- electrostatic energy is discharged through the handles in a gradual and controlled manner
- protects components endangered by electrostatic discharge
- in accordance with applicable standards, e.g. IEC TR 61 340-5, DIN EN 61 340-5, SP Method 2472

- precision pliers for ultra fine cutting work, e.g. in electronics and fine mechanics
- electrically discharging handles – energy dissipative
- precision box joint
- low-friction double spring for gentle and even opening
- the mirror polish together with a fine film of oil, offers effective rust protection – no circuit faults caused by peeling chrome from plated tools
- cutting edge hardness approx. 56 HRC
- with two-color dual component handles, black/grey
- High-grade special tool steel; forged, oil-hardened



64 62 120 ESD



64 62 120 ESD

Style 6
Oblique End Cutter,
mini-blade with small bevel, α = 65°

Pliers Sets
see page 182

Product Number	↔ inch		Style	Head	Handles	Cutting capacities Ø inch	Dimensions A inch	B inch	D inch	C inch	Ounces
64 62 120 ESD	4 3/4	65°	6	mirror polished	with multi-component grips	1/64	3/8	47/64	15/64	13/64	2.5

Product Number	↔ mm		Style	Head	Handles	Cutting capacities Ø mm	Dimensions A mm	B mm	D mm	C mm	Ounces
64 62 120 ESD	120	65°	6	mirror polished	with multi-component grips	0.6	9.5	18.5	6.0	5.0	2.5

67

High Leverage End Cutting Nippers

ISO 5748

67 01 200

- with cutting edges for soft, hard and piano wire
- high cutting capacity with little effort due to optimum coordination of cutting edge angle and transmission ratio
- cutting edge hardness approx. 64 HRC
- Chrome vanadium heavy-duty steel; forged, oil-hardened

Product Number	↔ inch	↔ mm		Pliers	Head	Handles	Cutting capacities Ø inch	Ø inch	Ø inch	Ø inch	Ø mm	Ø mm	Ø mm	Ø mm	Ounces
67 01 140	5 1/2	140					5/32	1/8	5/64	1/16	4.0	3.1	2.0	1.5	5.4
67 01 160	6 1/4	160		black atramentized	polished	plastic coated	3/16	1/8	7/64	5/64	4.5	3.4	2.5	2.0	8.4
67 01 200	8	200					13/64	5/32	1/8	7/64	5.0	3.8	3.0	2.5	11.2

68

End Cutting Nippers

ISO 5748

68 01 200

- with cutting edges for soft and hard wire
- also suitable for twisting and cutting binding wire
- cutting edge hardness approx. 61 HRC
- High-grade special tool steel; forged, oil-hardened

Also suitable for wire netting in reinforced concrete construction

Product Number	↔ inch	↔ mm		Pliers	Head	Handles	Cutting capacities Ø inch	Ø inch	Ø inch	Ø mm	Ø mm	Ø mm	Ounces
68 01 160	6 1/4	160					5/32	7/64	3/32	4.0	2.8	2.3	7.1
68 01 180	7 1/4	180		black atramentized	polished	plastic coated	5/32	1/8	3/32	4.0	3.2	2.5	10.0
68 01 200	8	200					5/32	9/64	7/64	4.0	3.5	2.8	11.3

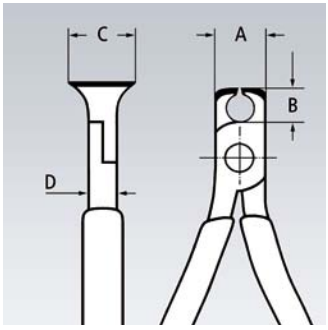
69

End Cutting Nippers for mechanics

ISO 5748

69 01 130

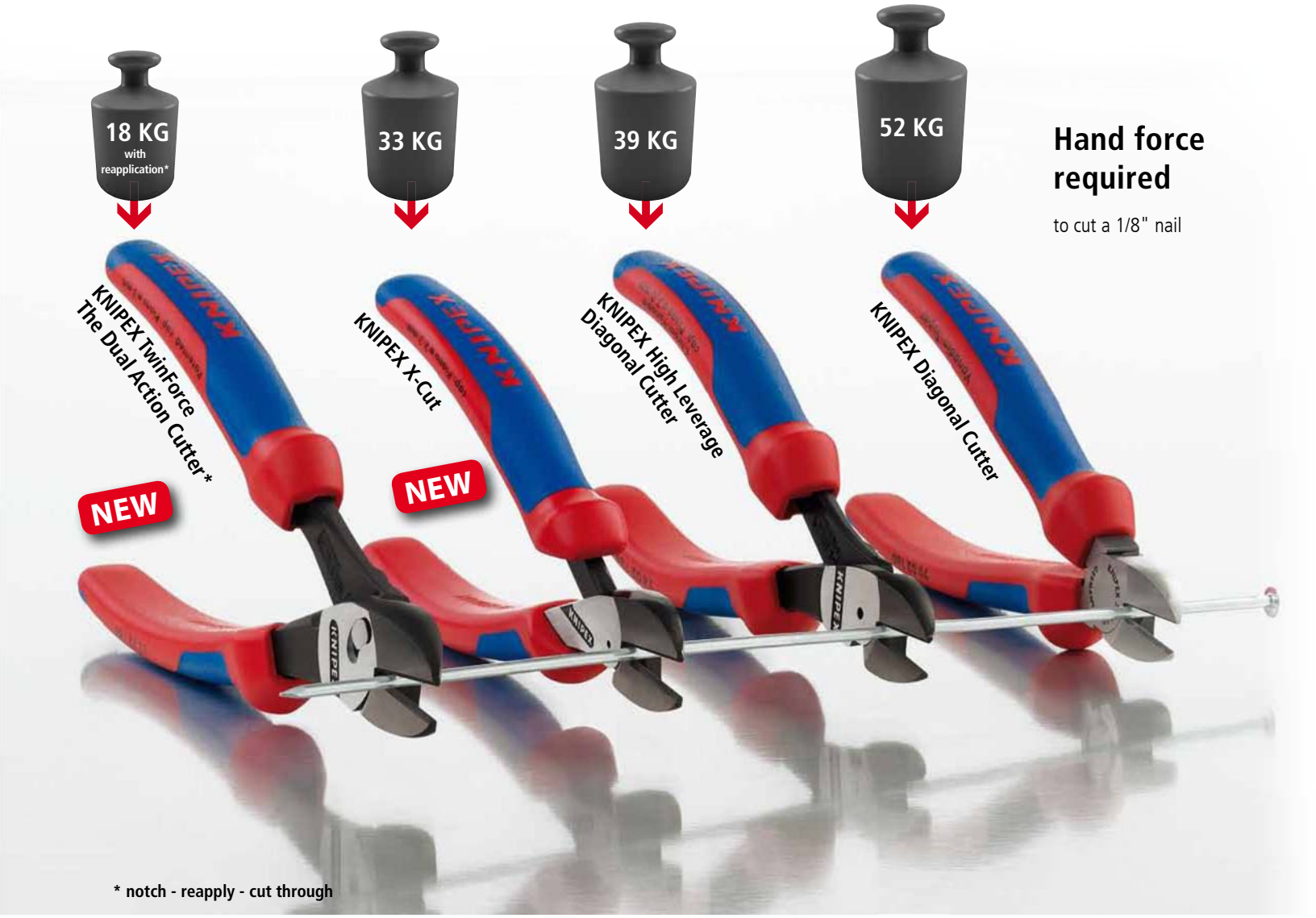
- with cutting edges for soft, hard and piano wire; also suitable for thin copper wires
- lap joint
- cutting edge hardness approx. 64 HRC
- Chrome vanadium heavy duty steel; forged, oil-hardened



Product Number	↔ inch		Pliers	Head	Handles	Cutting capacities Ø inch	Ø inch	Ø inch	Ø inch	Dimensions A inch	B inch	D inch	C inch	Ounces
69 01 130	5 3/25		black atramentized	polished	plastic coated	1/64 - 5/64	3/64	3/64	1/32	5/8	19/64	25/64	51/64	3.9

Product Number	↔ mm		Pliers	Head	Handles	Cutting capacities Ø mm	Ø mm	Ø mm	Ø mm	Dimensions A mm	B mm	D mm	C mm	Ounces
69 01 130	130		black atramentized	polished	plastic coated	0.4 - 2.0	1.3	1.0	0.8	16.0	7.5	10.0	20.0	3.9

THE WORLD OF KNIPEX DIAGONAL CUTTERS



KNIPEX TwinForce

The Dual Action Cutter

Double-hinged design
Hand force is multiplied by 39

KNIPEX X-Cut

Box joint:
greatest stability with little weight
Hand force is multiplied by 16

High Leverage Diagonal Cutter

Forged on hinged joint for robust use
Hand force is multiplied by 13

Diagonal Cutter

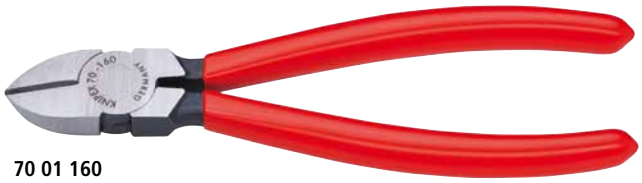
Long cutting edges for cutting cable; also precise enough for the finest stranded wires
Hand force is multiplied by 9

70

Diagonal Cutters

ISO 5749

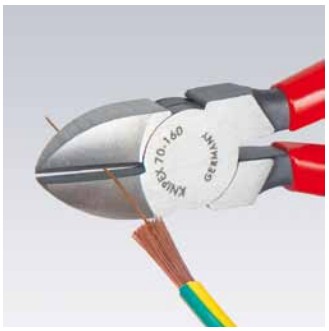
- the essential cutting tool for versatile use
- high quality material and precise workmanship for long service life
- precision cutting edges (cutting edge hardness approx. 62 HRC) for soft and hard wire
- clean cutting of thin copper wires, also at the cutting edge tips
- narrow head style for use in confined areas
- Vanadium electric steel; forged, oil-hardened



70 01 160

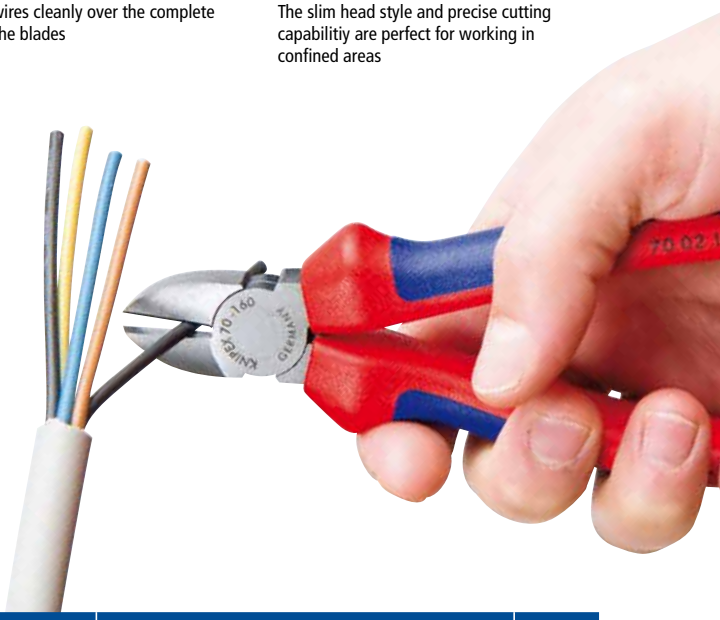
70 02 160

70 08 160 SBA
1000 V



Cuts fine wires cleanly over the complete length of the blades

The slim head style and precise cutting capabilitiy are perfect for working in confined areas



Product Number	↔ inch	↔ mm		Pliers	Head	Handles	Cutting capacities Ø inch	Ø inch	Ø inch	Ø mm	Ø mm	Ø mm	Ounces
70 01 110	4 1/4	110		black atramentized	polished	plastic coated	1/8	5/64	3/64	3.0	2.0	1.2	2.8
70 01 125	5	125					1/8	3/32	1/16	3.0	2.3	1.5	2.8
70 01 140	5 1/2	140					5/32	3/32	5/64	4.0	2.5	1.8	4.4
70 01 160	6 1/4	160					5/32	7/64	5/64	4.0	2.8	2.0	6.0
70 01 180	7 1/4	180					5/32	1/8	3/32	4.0	3.0	2.5	7.1
70 02 125	5	125		black atramentized	polished	with multi-component grips	1/8	3/32	1/16	3.0	2.3	1.5	4.2
70 02 140	5 1/2	140					5/32	3/32	5/64	4.0	2.5	1.8	5.3
70 02 160	6 1/4	160					5/32	7/64	5/64	4.0	2.8	2.0	7.3
70 02 180	7 1/4	180					5/32	1/8	3/32	4.0	3.0	2.5	8.9
70 08 160 SBA	6 1/4	160	1000 V	black atramentized	polished	insulated with multi-component grips, VDE-tested	5/32	7/64	5/64	4.0	2.8	2.0	6.0
70 08 180 SBA	7 1/4	180					5/32	1/8	3/32	4.0	3.0	2.5	7.1

KNIPEX CoBolt®

Compact Bolt Cutters

ISO 5743

An all around tool for the toughest demands!
60% reduction in required force compared to conventional high leverage diagonal cutters. The ingenious lever action mechanism ensures a favorable lever ratio with very little friction. The cutting force is about 20 times higher than the hand force applied.

71 01 200

- induction hardened edges cut hard, soft and piano wire
- cuts components like bolts, nails, rivets, etc. up to 1/8" dia.
- exceptional cutting performance with minimal effort due to innovative effective lever action design
- cutting edge hardness approx. 64 HRC
- Chrome vanadium heavy-duty steel; forged, oil-hardened

71 02 200

71 02 200
with slim, two-color multi-component sleeves for better handling and easier transport; with large contact surface on the handles for better allotment of pressure and more comfortable work

71 12 200

71 12 200 / 71 22 200 / 71 32 200
opening spring and locking lever are integrated into the handles for more comfortable work and safer transport

Form 2
20° angled head with single-sided lock plate and diagonal cutting edge for flush cutting; with space for gripping

Form 3
the recess in the blade allows easier cutting of thicker wires, e.g. for anchor bolts in false ceilings

opening spring and transport lock

71 22 200

Form 4
the recess in the blade allows easier cutting of thicker wires, e.g. for anchor bolts in false ceilings, 20° angled head with single-sided lock plate and diagonal cutting edge for flush cutting; with space for gripping

71 41 200

The comparison 71 0x 200 with 71 2x 200 – the angled version provides a more flush cut

Conventional Bolt Cutter:

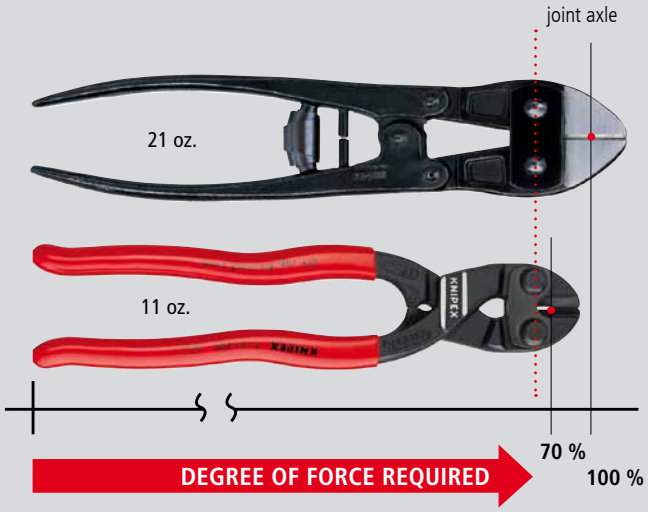
max. opening is approx. 1/8"
in diameter
weight = 21 ounces
double joint

KNIPEX-Model
e.g. 71 31 200 CoBolt®:

weight = 11 ounces
good grip
small size
requires 30% less power than
conventional bolt cutters

● hard wire Ø 5/64"

picture not true to scale



71 31/32/41 200:
The cutting edge recess near the joint keeps thicker wires in a better cutting position (optimum lever ratio). There is no need to reposition the tool to achieve the desired cut.

Product Number	↔ inch	↔ mm		Style	Pliers	Handles	Cutting capacities ◔ Ø inch	◐ Ø inch	◕ Ø inch	○ Ø inch	◔ Ø mm	◐ Ø mm	◕ Ø mm	○ Ø mm	⚖ Ounces
71 01 200	8	200		0	black atramentized	plastic coated	1/4	13/64	5/32	9/64	6.0	5.2	4.0	3.6	11.8
71 01 200 R SBA	8	200		0	black atramentized	plastic coated	1/4	13/64	5/32	9/64	6.0	5.2	4.0	3.6	11.8
71 02 200	8	200		0	black atramentized	with multi-component grips	1/4	13/64	5/32	9/64	6.0	5.2	4.0	3.6	12.9
71 12 200	8	200		1	black atramentized	with multi-component grips	1/4	13/64	5/32	9/64	6.0	5.2	4.0	3.6	13.2
71 21 200	8	200	∡20°	2	black atramentized	plastic coated	1/4	13/64	5/32	9/64	6.0	5.2	4.0	3.6	11.3
71 22 200	8	200	∡20°	2	black atramentized	with multi-component grips	1/4	13/64	5/32	9/64	6.0	5.2	4.0	3.6	13.2
71 31 200	8	200		3	black atramentized	plastic coated	1/4	13/64	5/32	9/64	6.0	5.2	4.0	3.6	11.6
71 31 200 R SBA	8	200		3	black atramentized	plastic coated	1/4	13/64	5/32	9/64	6.0	5.2	4.0	3.6	11.6
71 32 200	8	200		3	black atramentized	with multi-component grips	1/4	13/64	5/32	9/64	6.0	5.2	4.0	3.6	13.1
71 41 200	8	200	∡20°	4	black atramentized	plastic coated	1/4	13/64	5/32	9/64	6.0	5.2	4.0	3.6	11.8

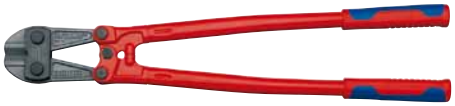
71
72

Bolt Cutters

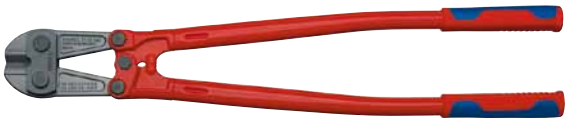
for hard materials up to 48 HRC

- cutting capacity up to 48 HRC hardness
- robust cutting edges with a hardness of approx. 62 HRC
- forged-on stopper with comfortable shock absorber
- good access due to very flat construction of head and joint area
- ergonomically angled handles to minimize effort
- sturdy, two-color dual component handles won't slip
- precise adjustment (12 positions) by cam bolt
- high cutting performance with minimum effort due to optimum coordination of the cutting edge angle, transmission ratio and ergonomic handle shape
- bolted cutter head, replaceable
- blade: Chrome vanadium heavy-duty steel; forged, oil-hardened
- joint: Special tool steel; forged
- handle: steel tube, powder-coated

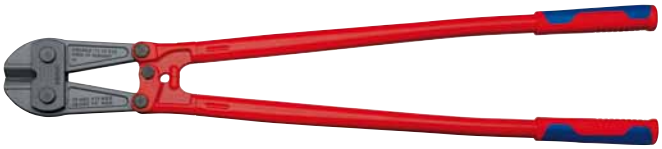
71 72 460



71 72 610



71 72 760



71 72 910

Forged-on stopper with absorbing inserts: cushions the cutting stroke

Product Number	↔ inch	↔ mm		Head	Handles	Cutting capacities HRC 19 Ø inch	HRC 40 Ø inch	HRC 48 Ø inch	HRC 19 Ø mm	HRC 40 Ø mm	HRC 48 Ø mm	Ounces
71 72 460	18 1/4	460		grey atramentized	with multi-component grips	5/16	1/4	13/64	8.0	6.0	5.0	74.1
71 72 610	24	610		grey atramentized	with multi-component grips	23/64	5/16	9/32	9.0	8.0	7.0	90.0
71 72 760	30	760		grey atramentized	with multi-component grips	7/16	23/64	5/16	11.0	9.0	8.0	150.0
71 72 910	35 3/4	910		grey atramentized	with multi-component grips	1/2	25/64	23/64	13.0	10.0	9.0	175.0

71
82

Concrete Mesh Cutter

71 82 950

- cutting capacity up to 48 HRC hardness
- robust cutting edges with a hardness of approx. 62 HRC
- forged-on stopper with comfortable shock absorber
- good access due to very flat construction of head and joint area
- ergonomically angled handles to minimize effort
- sturdy, two-color dual component handles won't slip
- precise adjustment (12 positions) by cam bolt
- high cutting performance with minimum effort due to optimum coordination of the cutting edge angle, transmission ratio and ergonomic handle shape
- bolted cutter head; replaceable
- blade: Chrome vanadium heavy-duty steel; forged, oil-hardened
- joint: Special tool steel; forged
- handle: steel tube, powder-coated

The special shape of the mesh cutter head enables it to cut structural steel that is lying down flat

Product Number	↔ inch	↔ mm	Head	Handles	Cutting capacities HRC 19 Ø inch	HRC 40 Ø inch	HRC 48 Ø inch	HRC 19 Ø mm	HRC 40 Ø mm	HRC 48 Ø mm	⚖ Ounces
71 82 950	37 1/2	950	grey atramentized	with multi-component grips	7/16	23/64	1/4	11.0	9.0	6.0	130.0

72

Diagonal Cutters for plastics

ISO 5743

- provides a fully flush cut when cutting tie-wraps, plastic and soft metals
- with opening spring
- Vanadium electric steel; forged, oil-hardened

72 01 160

72 11 160

45°

72 21 160

85°

Product Number	↔ inch	↔ mm		Head	Handles	⚖ Ounces
72 01 140	5 1/2	140				4.4
72 01 160	6 1/4	160		polished	plastic coated	5.8
72 01 180	7 1/4	180				6.8
72 11 160	6 1/4	160	45°	polished	plastic coated	5.5
72 21 160	6 1/4	160	85°	polished	plastic coated	5.8

72
51

Diagonal Cutter for fiber optics

(glass fiber cable)

DIN ISO 5743

- specially developed for flush cutting of fiber optics (glass fiber cables)
- cutting edges additionally induction hardened
- with opening spring
- Vanadium electric steel; forged, oil-hardened

72 51 160

Product Number	↔ inch	↔ mm		Head	Handles	⚖ Ounces
72 51 160	6 1/4	160		polished	plastic coated	5.9

The KEVLAR® fibers in strain relief are cut with the 95 03 160 shears.
KEVLAR® is a registered trademark of E. I. du Pont de Nemours and Company

73

KNIPEX X-Cut

Compact and light. Powerful and precise.

Cuts fine strands as well as multi-core cables and piano wire.

73 02 160

73 05 160

73 06 160

1000 V

- box-joint design: highest stability at low weight
- double supported joint axis for heavy duty cutting
- high cutting capacity with very little effort due to the optimum coordination of the cutting edge angle and lever ratio with off center pivot point
- 40% less effort required compared to diagonal cutters of the same length
- large opening width for thicker cables
- cuts all wires precisely, even fine copper wires
- compact, low-weight construction
- universally usable in assembly, maintenance and production
- Chrome vanadium heavy duty steel; forged, oil-hardened

Product Number	↔ inch		Pliers	Head	Handles	Ø inch	Ø inch	Ø inch	Ø inch	Ø inch	Ounces
73 02 160	6 1/4		black atramentized	polished	with multi-component grips	3/16	5/32	7/64	3/32	15/32	6.2
73 05 160	6 1/4		chrome plated		with multi-component grips	3/16	5/32	7/64	3/32	15/32	6.2
73 06 160	6 1/4	1000 V	chrome plated		insulated with multi-component grips, VDE-tested	3/16	5/32	7/64	3/32	15/32	6.9

Product Number	↔ mm		Pliers	Head	Handles	Ø mm	Ø mm	Ø mm	Ø mm	Ø mm	Ounces
73 02 160	160		black atramentized	polished	with multi-component grips	4.8	3.8	2.7	2.2	12.0	6.2
73 05 160	160		chrome plated		with multi-component grips	4.8	3.8	2.7	2.2	12.0	6.2
73 06 160	160	1000 V	chrome plated		insulated with multi-component grips, VDE-tested	4.8	3.8	2.7	2.2	12.0	6.9

High Leverage Diagonal Cutters

ISO 5749

20% reduction in required force
compared to conventional diagonal cutters of the same length. With forged-on joint axle.

- for very tough, continuous use
- high cutting performance with minimum effort due to optimum coordination of the cutting edge angle, transmission ratio and ergonomic handle shape
- precision cutting edges (cutting edge hardness approx. 64 HRC) cut several types of wire including piano wire
- Chrome vanadium heavy duty steel; forged, oil-hardened

74 01 200

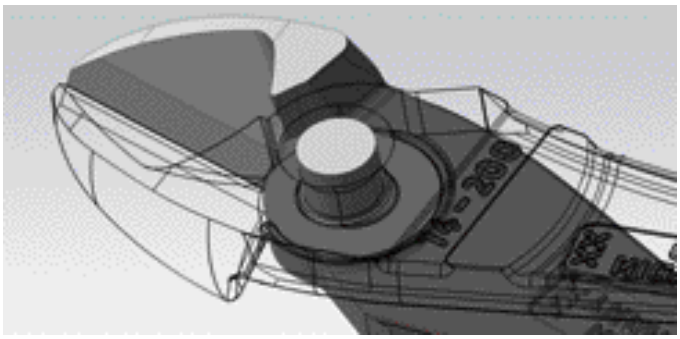
74 02 250

74 08 200 SBA
1000 V

74 08 250 SBA
1000 V

74 12 180

74 21 200
12°



With forged-on axle for heaviest duty

Style 1
with opening spring; to be activated if required

74 12:
Opening spring in deactivated position

74 12: Just pressing with your thumb will activate the opening spring

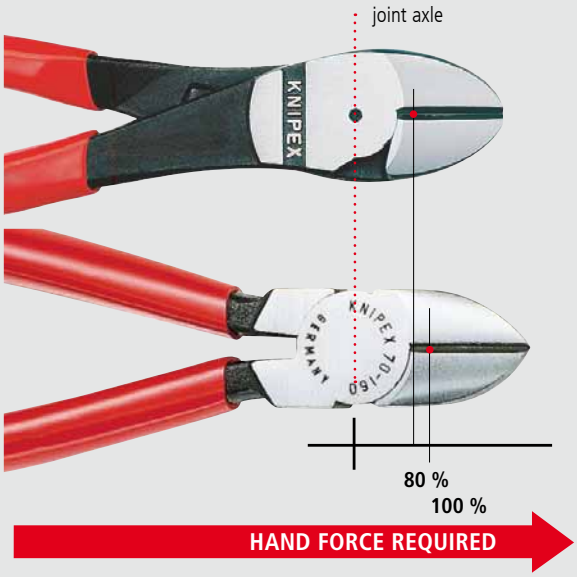
Style 2
12° angled head offers ample space for gripping

20% reduction in required hand force

leverage comparison between the Diagonal Cutter <=> High Leverage Diagonal Cutter

High power transmission
Power cutter:
hand force of 290 N required
to cut hard wire (Ø 5/64")

Normal power transmission
Cutter:
hand force of 370 N required
to cut hard wire (Ø 5/64")



● hard wire (Ø 5/64")

20% reduction thanks to high leverage power joint

Product Number	↔ inch	↔ mm		Style	Pliers	Head	Handles	Cutting capacities ◐ Ø inch	◕ Ø inch	○ Ø inch	◐ Ø mm	◕ Ø mm	○ Ø mm	⚖ Ounces
74 01 140	5 1/2	140		0	black atramentized	polished	plastic coated	1/8	5/64	1/16	3.1	2.0	1.5	4.6
74 01 160	6 1/4	160						1/8	3/32	5/64	3.4	2.5	2.0	6.3
74 01 180	7 1/4	180						5/32	7/64	3/32	3.8	2.7	2.2	8.5
74 01 200	8	200						11/64	1/8	3/32	4.2	3.0	2.5	9.3
74 01 250	10	250						3/16	9/64	1/8	4.6	3.5	3.0	13.8
74 02 140	5 1/2	140		0	black atramentized	polished	with multi-component grips	1/8	5/64	1/16	3.1	2.0	1.5	5.5
74 02 160	6 1/4	160						1/8	3/32	5/64	3.4	2.5	2.0	7.4
74 02 180	7 1/4	180						5/32	7/64	3/32	3.8	2.7	2.2	9.6
74 02 200	8	200						11/64	1/8	3/32	4.2	3.0	2.5	10.7
74 02 250	10	250						3/16	9/64	1/8	4.6	3.5	3.0	15.4
74 08 200	8	200	1000 V	0	black atramentized	polished	insulated with multi-component grips, VDE-tested	11/64	1/8	3/32	4.2	3.0	2.5	10.7
74 08 250	10	250						3/16	9/64	1/8	4.6	3.5	3.0	15.4
74 12 160	6 1/4	160		1	black atramentized	polished	with multi-component grips	1/8	3/32	5/64	3.4	2.5	2.0	7.4
74 12 180	7 1/4	180						5/32	7/64	3/32	3.8	2.7	2.2	9.6
74 21 160	6 1/4	160		2	black atramentized	polished	plastic coated	1/8	3/32	5/64	3.4	2.5	2.0	6.4
74 21 180	7 1/4	180	12°					5/32	7/64	3/32	3.8	2.7	2.2	8.3
74 21 200	8	200						11/64	1/8	3/32	4.2	3.0	2.5	9.1
74 21 250	10	250						3/16	9/64	1/8	4.6	3.5	3.0	13.8
74 22 200	8	200	12°	2	black atramentized	polished	with multi-component grips	11/64	1/8	3/32	4.2	3.0	2.5	10.6
74 22 250	10	250						3/16	9/64	1/8	4.6	3.5	3.0	15.4


TwinForce
KNIPEX

73 7

KNIPEX TwinForce

High Leverage Diagonal Cutter

73 72 180

Meet the TwinForce
The ideal tool for cutting thicker wires. New to the Diagonal Cutter family is the option to reapply the tool. This is due to the innovative double-hinged design. Each cutting repetition reduces the effort required to achieve the ultimate cut. Reapplying with the KNIPEX TwinForce allows the user to cut materials that cannot be cut with comparable diagonal cutters of the same length.

- ideal transmission of force due to double-hinged design
- extremely easy cutting with little strain
- cuts again 50% easier than the tried and tested high leverage diagonal cutters
- reliably cuts all types of wire, including steel tape
- NEW for diagonal cutters: The option to reapply the tool. The KNIPEX TwinForce cuts even 5/32" thick wire without great effort when reapplied two or three times. Conventional high leverage diagonal cutters either cannot cut these diameters or only with very great effort.
- for rough or very fine cutting
- low cutting impact: gentle on hands. The tension on muscles and tendons is relieved
- cuts wire up to Ø 5/32" without considerable effort when reapplied several times
- high degree of stability and zero-backlash due to precisely milled forged-in axle
- Chrome vanadium heavy duty steel

Product Number	↔ inch		Pliers	Head	Handles	Cutting capacities Ø inch	Ø inch	Ø inch	Ø inch	Ounces
73 71 180	7 1/4		black atramentized	polished	plastic coated	7/32	3/16	1/8	1/8	9.0
73 72 180	7 1/4		black atramentized	polished	with multi-component grips	7/32	3/16	1/8	1/8	9.0

Product Number	↔ mm		Pliers	Head	Handles	Cutting capacities Ø mm	Ø mm	Ø mm	Ø mm	Ounces
73 71 180	180		black atramentized	polished	plastic coated	5.5	4.6	3.2	3.0	9.0
73 72 180	180		black atramentized	polished	with multi-component grips	5.5	4.6	3.2	3.0	9.0

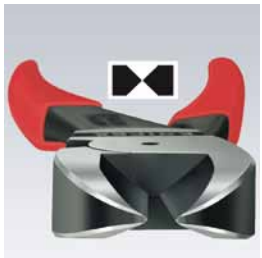
74 91

High Leverage Center Cutters

ISO 5743

74 91 250

- with forged-on axle for heavy duty cutting
- with precision cutting edges for soft, hard and piano wire
- cuts thick wires with less effort than other diagonal cutters of the same length
- cutting edges are in the center of the cutter head
- high cutting performance with minimal effort due to optimum coordination of the cutting edge angle, transmission ratio and ergonomic handle shape
- cutting edges additionally induction hardened, cutting edge hardness approx. 64 HRC
- Chrome vanadium heavy-duty steel; forged, oil-hardened



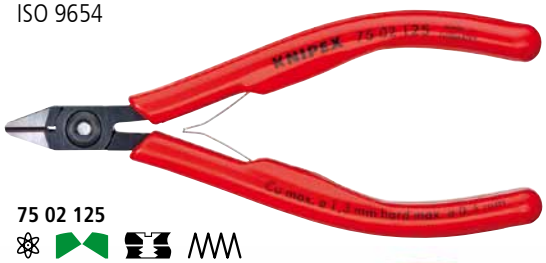
The cutting edges are in the center of the cutter head

Product Number	↔ inch		Pliers	Head	Handles	Cutting capacities Ø inch	Ø inch	Ø inch	Ø inch	Ounces
74 91 250	10		black atramentized	polished	plastic coated	13/64	13/64	5/32	9/64	14.0

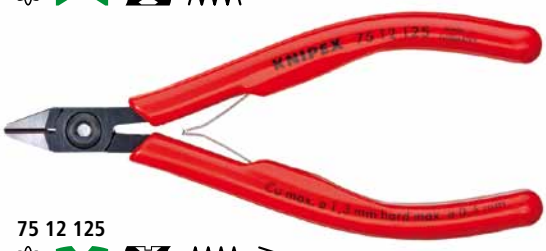
Product Number	↔ mm		Pliers	Head	Handles	Cutting capacities Ø mm	Ø mm	Ø mm	Ø mm	Ounces
74 91 250	250		black atramentized	polished	plastic coated	5.0	5.0	3.8	3.5	14.0

Electronics Diagonal Cutters

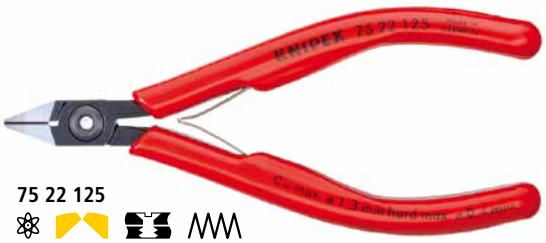
ISO 9654



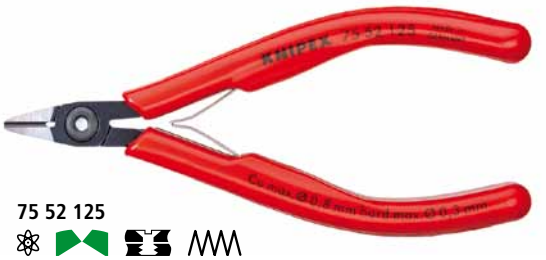
75 02 125



75 12 125



75 22 125



75 52 125

- bolted joint for high precision and stress tolerance
- for very precise assembly work, e.g. in electronics and fine mechanics
- with sharp, ground cutting for soft and hard wire and piano wire
- cutting edge hardness approx. 64 HRC
- low-friction double spring for gentle and even opening
- High-grade special tool steel; forged, oil-hardened

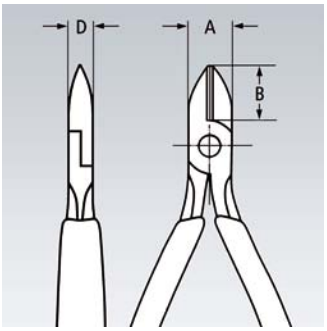
Style 0
with bevel

Style 1
with bevel and wire clamp,
no uncontrolled loss of cut wire ends

Style 2
with small bevel

Style 5
particularly narrow head, with bevel

Bolted joint



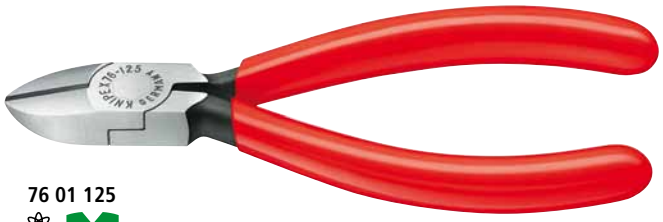
Product Number	↔ inch		Style	Pliers	Handles	Cutting capacities ◔ Ø inch	◑ Ø inch	◕ Ø inch	○ Ø inch	Dimensions A inch	B inch	D inch	⚖ Ounces
75 02 125	5		0	burnished	plastic coated	1/64 - 3/64	3/64	1/64	1/64	13/32	35/64	17/64	2.9
75 12 125	5		1	burnished	plastic coated	1/64 - 3/64	3/64	1/64	1/64	13/32	35/64	17/64	2.8
75 22 125	5		2	burnished	plastic coated	1/64 - 3/64	2/64	1/64	1/64	13/32	35/64	17/64	2.8
75 52 125	5		5	burnished	plastic coated	1/64 - 3/64	1/64	1/64		13/32	35/64	17/64	2.8

Product Number	↔ mm		Style	Pliers	Handles	Cutting capacities ◔ Ø mm	◑ Ø mm	◕ Ø mm	○ Ø mm	Dimensions A mm	B mm	D mm	⚖ Ounces
75 02 125	125		0	burnished	plastic coated	0.2 - 1.3	1.0	0.6	0.4	10.5	14	6.5	2.9
75 12 125	125		1	burnished	plastic coated	0.2 - 1.3	1.0	0.6	0.4	10.5	14	6.5	2.8
75 22 125	125		2	burnished	plastic coated	0.2 - 1.3	0.9	0.4	0.3	10.5	14	6.5	2.8
75 52 125	125		5	burnished	plastic coated	0.2 - 0.8	0.5	0.3		10.5	14	6.5	2.8

76

Diagonal Cutters for electromechanics

ISO 5749



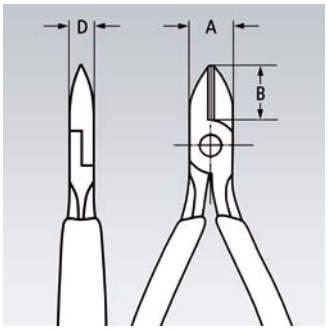
76 01 125

- with sharp, precisely aligned cutting edges for soft, hard and piano wire
- cutting edge hardness approx. 63 HRC
- lap joint
- Vanadium electric steel; forged, oil-hardened

Style 1
low-friction double spring for gentle and even opening

Style 2
without bevel for flush cutting of soft wires; low-friction double spring for gentle and even opening

Style 8
tapered head with small bevel for work in confined areas (cable harnesses, multiple stranded wires)



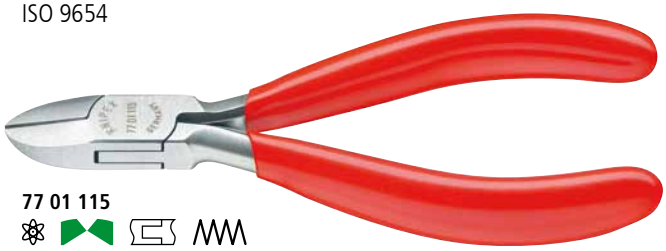
Product Number	↔ inch		Pliers	Head	Handles	Cutting capacities Ø inch	Ø inch	Ø inch	Ø inch	Dimensions A inch	B inch	D inch	Ounces
76 01 125	5		black atramentized	polished	plastic coated	1/64 - 1/8	3/32	1/16	1/64	37/64	5/8	23/64	3.2
76 22 125	5		black atramentized	polished	with multi-component grips	1/64 - 7/64				37/64	5/8	23/64	3.8
76 81 125	5		black atramentized	polished	plastic coated	1/64 - 5/64	3/64	1/32		37/64	5/8	23/64	3.1

Product Number	↔ mm		Pliers	Head	Handles	Cutting capacities Ø mm	Ø mm	Ø mm	Ø mm	Dimensions A mm	B mm	D mm	Ounces
76 01 125	125		black atramentized	polished	plastic coated	0.4 - 3.0	2.3	1.5	0.6	14.5	16.0	9.0	3.2
76 22 125	125		black atramentized	polished	with multi-component grips	0.4 - 2.5				14.5	16.0	9.0	3.8
76 81 125	125		black atramentized	polished	plastic coated	0.4 - 1.7	1.3	0.8		14.5	16.0	9.0	3.1

Electronics Diagonal Cutters

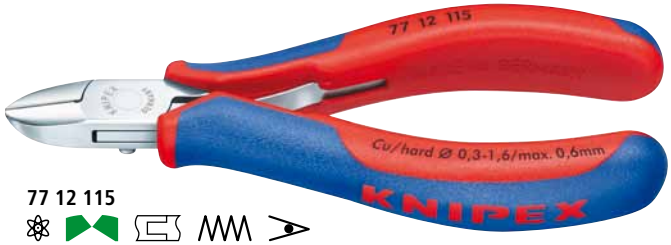
ISO 9654

- for fine cutting work, e.g. in electronics and fine mechanics
- sturdy, zero-backlash box joint
- low-friction double spring for gentle and even opening
- the polish or mirror polish (only finish 2) together with a fine film of oil, offers effective rust protection – no circuit faults caused by peeling chrome from plated tools
- cutting edge hardness approx. 62 HRC
- High-grade special tool steel; forged, oil-hardened

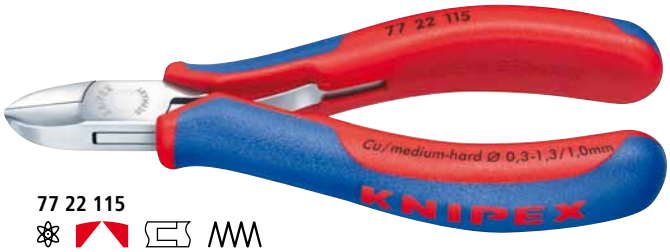


77 01 115

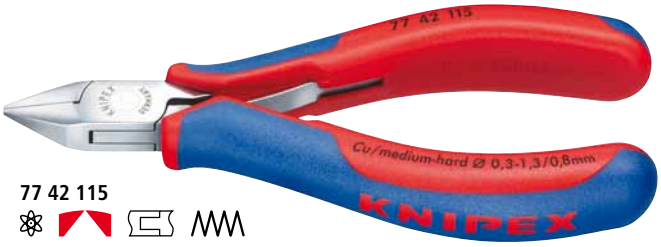
77 02 115



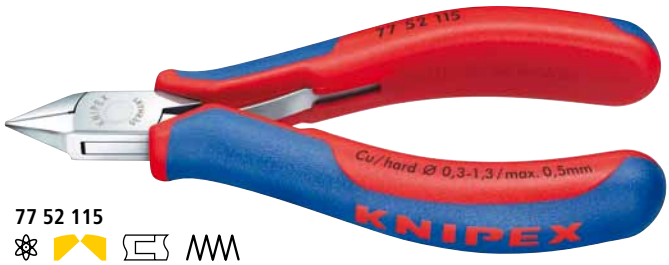
77 12 115



77 22 115



77 42 115



77 52 115

77 01 115
round head, with bevel

77 02 115
round head, with small bevel

77 11 115
round head, with bevel and lead catcher – no uncontrolled loss of cut wire ends

77 21 115
pointed head, without bevel

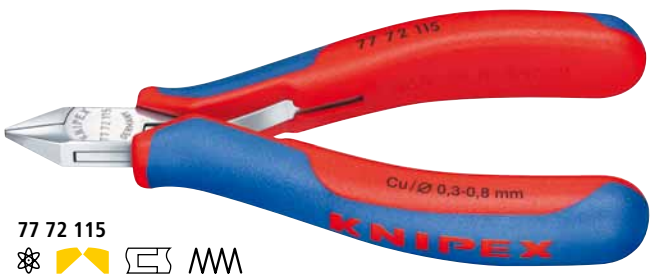
77 22 115
round head, without bevel; cutting edge hardness approx. 57 HRC

77 32 115
pointed head, with small bevel

77 42 115
pointed head, without bevel; cutting edge hardness approx. 57 HRC

77 52 115
pointed, flat head, with small bevel; cutting edge hardness approx. 57 HRC

77 72 115
miniature head with small bevel



77 72 115

Product Number	↔ inch		Head	Handles	Cutting capacities Ø inch	Ø inch	Ø inch	Dimensions B inch	A inch	D inch	Ounces
77 01 115	4 1/2		polished	plastic coated	1/64 - 1/16	3/64	1/64	35/64	7/16	19/64	2.4
77 01 130	5 1/4				1/64 - 5/64	1/16	1/32	23/32	19/32	3/8	3.8
77 02 115	4 1/2		mirror polished	with multi-component grips	1/64 - 1/16	3/64	1/64	35/64	7/16	19/64	2.8
77 12 115	4 1/2		mirror polished	with multi-component grips	1/64 - 1/16	3/64	1/64	35/64	7/16	19/64	2.8
77 22 115	4 1/2		mirror polished	with multi-component grips	1/64 - 3/64	3/64		35/64	7/16	9/32	2.8
77 22 130	5 1/4		mirror polished	with multi-component grips	1/64 - 5/64	1/16		23/32	19/32	23/64	4.4
77 42 115	4 1/2		mirror polished	with multi-component grips	1/64 - 3/64	1/32		35/64	7/16	19/64	2.8
77 42 130	5 1/4				1/64 - 1/16	3/64		23/32	19/32	3/8	4.3
77 52 115	4 1/2		mirror polished	with multi-component grips	1/64 - 3/64	1/32	1/64	35/64	7/16	19/64	2.7
77 72 115	4 1/2		mirror polished	with multi-component grips	1/64 - 1/32			13/32	3/8	15/64	2.4

Product Number	↔ mm		Head	Handles	Cutting capacities Ø mm	Ø mm	Ø mm	Dimensions B mm	A mm	D mm	Ounces
77 01 115	115		polished	plastic coated	0.3 - 1.6	1.2	0.6	14.0	11.0	7.5	2.4
77 01 130	130				0.3 - 2.0	1.5	0.8	18.0	15.0	9.5	3.8
77 02 115	115		mirror polished	with multi-component grips	0.3 - 1.6	1.2	0.6	14.0	11.0	7.5	2.8
77 12 115	115		mirror polished	with multi-component grips	0.3 - 1.6	1.2	0.6	14.0	11.0	7.5	2.8
77 22 115	115		mirror polished	with multi-component grips	0.3 - 1.3	1.0		14.0	11.0	7.0	2.8
77 22 130	130		mirror polished	with multi-component grips	0.3 - 2.0	1.5		18.0	15.0	9.0	4.4
77 42 115	115		mirror polished	with multi-component grips	0.3 - 1.3	0.8		14.0	11.0	7.5	2.8
77 42 130	130				0.3 - 1.6	1.3		18.0	15.0	9.5	4.3
77 52 115	115		mirror polished	with multi-component grips	0.3 - 1.0	0.8	0.5	14.0	11.0	7.5	2.7
77 72 115	115		mirror polished	with multi-component grips	0.3 - 0.8			10.5	9.5	6.0	2.4

Pliers Sets
see page 182

77

Electronics Diagonal Cutters ESD

ISO 9654

77 02 115 ESD

77 22 115 ESD

77 42 115 ESD

ESD pliers (electrostatic discharge)
- electrostatic energy is discharged through the handles in a gradual and controlled manner
- protects components endangered by electrostatic discharge
- in accordance with applicable standards, e.g. IEC TR 61 340-5, DIN EN 61 340-5, SP Method 2472

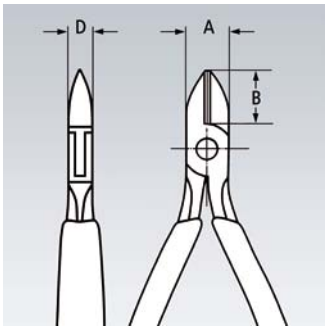
- for very precise assembly work, e.g. in electronics and fine mechanics
- electrically discharging handles – dissipative
- sturdy, zero-backlash box joint
- low-friction double spring for gentle and even opening
- the mirror polish together with a fine film of oil, offers effective rust protection – no circuit faults caused by peeling chrome from plated tools
- cutting edge hardness approx. 62 HRC
- with two-color dual component handles, black/grey
- High-grade special tool steel; forged, oil-hardened

77 02 115 ESD
round head, with small bevel

77 22 115 ESD
round head, without bevel

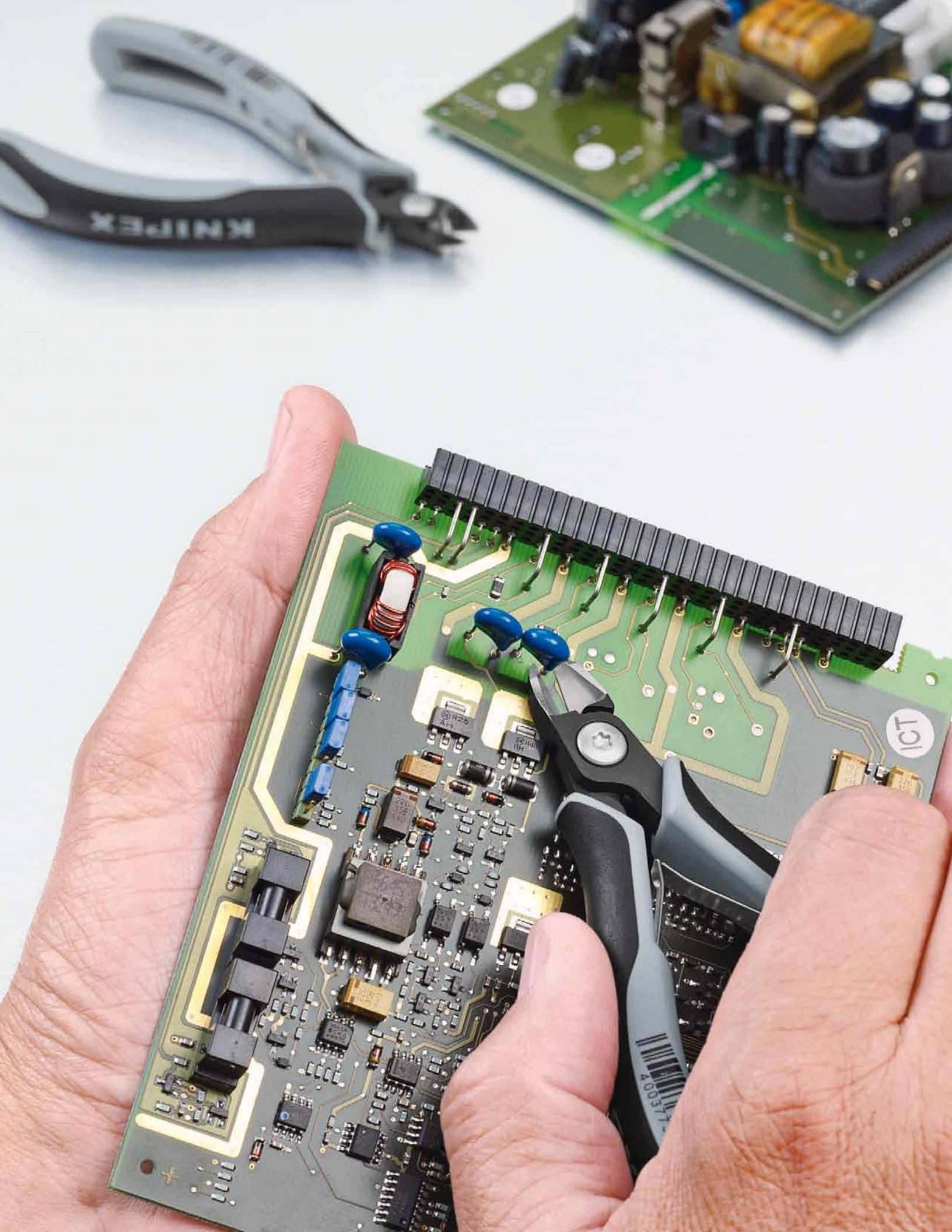
77 42 115 ESD
pointed head, without bevel

Pliers Sets
see page 182



Product Number	↔ inch		Head	Handles	Cutting capacities Ø inch	Ø inch	Ø inch	Dimensions B inch	A inch	D inch	Ounces
77 02 115 ESD	4 1/2		mirror polished	with multi-component grips	1/64 - 1/16	3/64	1/64	35/64	7/16	19/64	2.9
77 22 115 ESD	4 1/2		mirror polished	with multi-component grips	1/64 - 3/64	3/64		35/64	7/16	19/64	2.8
77 42 115 ESD	4 1/2		mirror polished	with multi-component grips	1/64 - 3/64	1/32		35/64	7/16	19/64	2.8

Product Number	↔ mm		Head	Handles	Cutting capacities Ø mm	Ø mm	Ø mm	Dimensions B mm	A mm	D mm	Ounces
77 02 115 ESD	115		mirror polished	with multi-component grips	0.3 - 1.6	1.2	0.6	14.0	11.0	7.5	2.9
77 22 115 ESD	115		mirror polished	with multi-component grips	0.3 - 1.3	1.0		14.0	11.0	7.5	2.8
77 42 115 ESD	115		mirror polished	with multi-component grips	0.3 - 1.3	0.8		14.0	11.0	7.0	2.8


KNIPEX
ICT

Electronic *Super Knips*®

ISO 9654

- precision pliers for ultra fine cutting work, e.g. in electronics and fine mechanics
- ground, very sharp cutting edges without bevel for flush cutting
- precision shaped tips cut through close wires from 1/64" dia.
- stainless steel rivet
- cutting edges additionally induction hardened
- extremely smooth movement for minimum operator fatigue
- with opening spring
- INOX or Special tool steel

78 03 125

78 23 125

60°

78 31 125

78 41 125

78 61 125

78 71 125

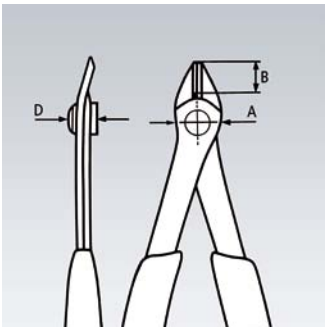
78 03 125 / 78 23 125
INOX-stainless steel;
cutting edge hardness approx. 54 HRC

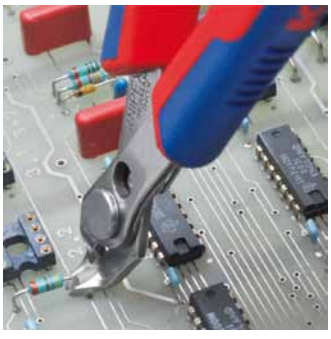
78 31 125
Cutting edges additionally induction hardened, cutting edge hardness approx. 60 HRC; with narrow head; Special tool steel, burnished

78 41 125
Cutting edges additionally induction hardened, cutting edge hardness approx. 60 HRC; with narrow head; with lead catcher – no uncontrolled loss of cut wire ends; Special tool steel, burnished

78 61 125
Cutting edges additionally induction hardened, cutting edge hardness approx. 64 HRC; also suitable for cutting glass fiber cables (fiber optics)

78 71 125
Special tool steel, burnished; with lead catcher – no uncontrolled loss of cut wire ends; cutting edges additionally induction hardened, cutting edge hardness approx. 64 HRC





Product Number	↔ inch		Pliers	Head	Handles	Cutting capacities Ø inch	Ø inch	Ø inch	Dimensions B inch	A inch	D inch	Ounces
78 03 125	5			polished	with multi-component grips	1/64 - 1/16	3/64		23/64	17/32	19/64	2.0
78 23 125	5	60°		polished	with multi-component grips	1/64 - 3/64	1/64		7/32	17/32	19/64	1.9
78 31 125	5		burnished		with multi-component grips	1/64 - 3/64			23/64	1/2	19/64	1.9
78 41 125	5		burnished		with multi-component grips	1/64 - 3/64			23/64	1/2	19/64	2.0
78 61 125	5		burnished		with multi-component grips	1/64 - 1/16	3/64	1/64	23/64	17/32	19/64	2.0
78 71 125	5		burnished		with multi-component grips	1/64 - 1/16	3/64	1/64	23/64	17/32	19/64	2.0

Product Number	↔ mm		Pliers	Head	Handles	Cutting capacities Ø mm	Ø mm	Ø mm	Dimensions B mm	A mm	D mm	Ounces
78 03 125	125			polished	with multi-component grips	0.2 - 1.6	1.0		9.0	13.5	7.5	2.0
78 23 125	125	60°		polished	with multi-component grips	0.2 - 1.0	0.6		5.5	13.5	7.5	1.9
78 31 125	125		burnished		with multi-component grips	0.2 - 1.0			9.0	12.5	7.5	1.9
78 41 125	125		burnished		with multi-component grips	0.2 - 1.0			9.0	12.5	7.5	2.0
78 61 125	125		burnished		with multi-component grips	0.2 - 1.6	1.2	0.6	9.0	13.5	7.5	2.0
78 71 125	125		burnished		with multi-component grips	0.2 - 1.6	1.2	0.6	9.0	13.5	7.5	2.0

78

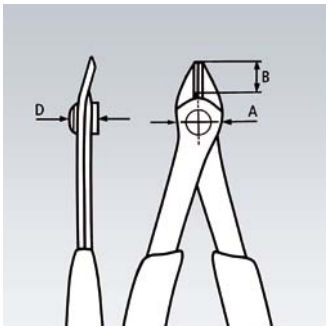
Electronic *Super Knips*® ESD

ISO 9654

78 03 125 ESD

ESD pliers (electrostatic discharge)
- electrostatic energy is discharged through the handles in a gradual and controlled manner
- protects components endangered by electrostatic discharge
- in accordance with applicable standards, e.g. IEC TR 61 340-5, DIN EN 61 340-5, SP Method 2472

- precision pliers for ultra fine cutting work, e.g. in electronics and fine mechanics
- electrically discharging handles – dissipative
- ground, very sharp cutting edges without bevel for flush cutting
- precision shaped tips cut through close wires from 1/64" dia.
- stainless steel rivet
- extremely smooth movement for minimal operator fatigue
- with opening spring



78 03 125 ESD
Surgeon steel; cutting edge hardness approx. 54 HRC

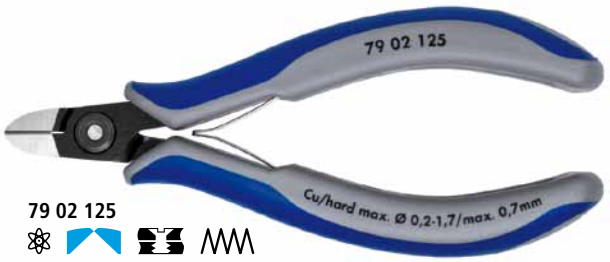
Product Number	↔ inch		Head	Handles	Cutting capacities Ø inch	Ø inch	Dimensions B inch	A inch	D inch	Ounces
78 03 125 ESD	5		polished	with multi-component grips	1/64 - 1/16	3/64	23/64	17/32	19/64	1.9

Product Number	↔ mm		Head	Handles	Cutting capacities Ø mm	Ø mm	Dimensions B mm	A mm	D mm	Ounces
78 03 125 ESD	125		polished	with multi-component grips	0.2 - 1.6	1.0	9.0	13.5	7.5	1.9

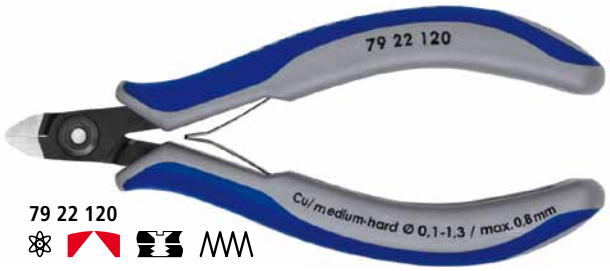
Precision Electronics Diagonal Cutters

ISO 9654

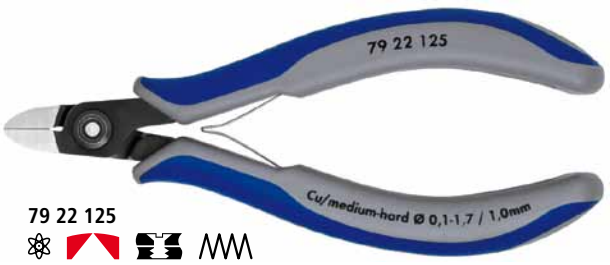
79 02 120



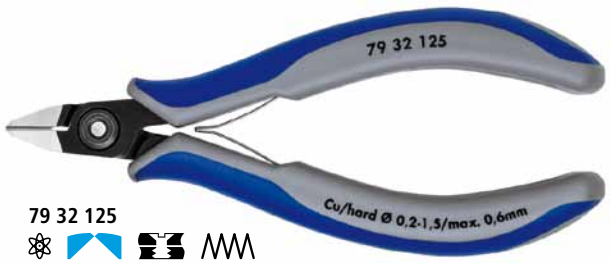
79 02 125



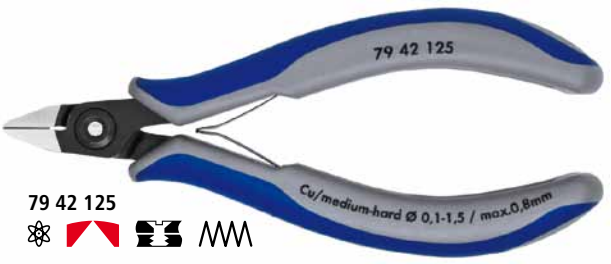
79 22 120



79 22 125



79 32 125



79 42 125

Small Change. Big Difference.
KNIPEX Precision Electronics Pliers are made of high-quality ball bearing steel and processed with the highest degree of care. Each opening movement is gentle and without backlash. Each work step proceeds reliably and precisely.

- precision pliers for ultra fine cutting work, e.g. in electronics and fine mechanics
- very precisely ground and sharp cutting edges wih small bevels for precise cutting work on small electronic components
- a version without the bevel is available for flush cutting
- cutting edges additionally induction hardened, cutting edge hardness approx. 64 HRC
- approx. 20% lighter than conventional electronics pliers
- bolted joint with carefully manufactured joint surfaces for even, low-friction movement throughout the entire opening range
- smooth-running double spring for a gentle and even opening
- ergonomically optimized handle covers
- Chrome vanadium ball-bearing steel; forged

79 02 120 / 79 22 120
mini-head

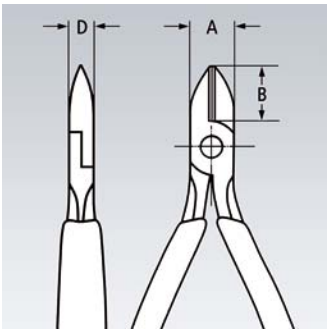
79 02 125 / 79 22 125
round head

79 12 125
for cutting through hard wire and piano wire

79 32 125 / 79 42 125
pointed head

Cutting edges without bevel

Cutting edges with very small bevel



Product Number	↔ inch		Pliers	Head	Handles	Cutting capacities Ø inch	Ø inch	Ø inch	Ø inch	Dimensions B inch	A inch	D inch	Ounces
79 02 120	4 3/4		burnished	polished	with multi-component grips	1/64 - 1/16	3/64	1/64		17/64	23/64	17/64	2.0
79 02 125	5		burnished	polished	with multi-component grips	1/64 - 5/64	3/64	1/32		25/64	7/16	17/64	2.1
79 12 125	5		burnished	polished	with multi-component grips	1/64 - 5/64	3/64	3/64	1/64	25/64	7/16	17/64	2.1
79 22 120	4 3/4		burnished	polished	with multi-component grips	1/64 - 3/64	1/32			17/64	23/64	17/64	2.0
79 22 125	5		burnished	polished	with multi-component grips	1/64 - 5/64	3/64			25/64	7/16	17/64	2.1
79 32 125	5		burnished	polished	with multi-component grips	1/64 - 1/16	3/64	1/64		7/16	7/16	17/64	2.0
79 42 125	5		burnished	polished	with multi-component grips	1/64 - 1/16	1/32			7/16	7/16	17/64	2.0

Product Number	↔ mm		Pliers	Head	Handles	Cutting capacities Ø mm	Ø mm	Ø mm	Ø mm	Dimensions B mm	A mm	D mm	Ounces
79 02 120	120		burnished	polished	with multi-component grips	0.2 - 1.4	1.0	0.6		6.5	9.0	6.5	2.0
79 02 125	125		burnished	polished	with multi-component grips	0.2 - 1.7	1.3	0.7		10.0	11.0	6.5	2.1
79 12 125	125		burnished	polished	with multi-component grips	0.3 - 1.7	1.3	1.0	0.6	10.0	11.0	6.5	2.1
79 22 120	120		burnished	polished	with multi-component grips	0.1 - 1.3	0.8			6.5	9.0	6.5	2.0
79 22 125	125		burnished	polished	with multi-component grips	0.1 - 1.7	1.0			10.0	11.0	6.5	2.1
79 32 125	125		burnished	polished	with multi-component grips	0.2 - 1.5	1.1	0.6		11.0	11.0	6.5	2.0
79 42 125	125		burnished	polished	with multi-component grips	0.1 - 1.5	0.8			11.0	11.0	6.5	2.0

79

Precision Electronics Diagonal Cutters ESD

ISO 9654

79 02 120 ESD

79 02 125 ESD

79 22 120 ESD

79 22 125 ESD

79 32 125 ESD

79 42 125 ESD

ESD pliers (electrostatic discharge)
- electrostatic energy is discharged through the handles in a gradual and controlled manner
- protects components endangered by electrostatic discharge
- in accordance with applicable standards, e.g. IEC TR 61 340-5, DIN EN 61 340-5, SP Method 2472

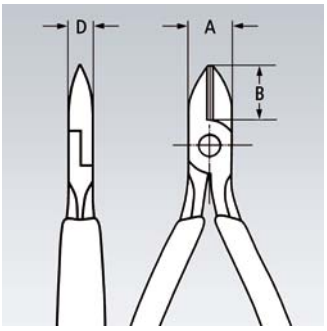
- precision pliers for ultra fine cutting work, e.g. in electronics and fine mechanics
- very precisely ground and sharp cutting edges wih small bevels for precise cutting work on small electronic components
- a version without the bevel is available for flush cutting
- electrically discharging handles – dissipative
- cutting edge hardness approx. 64 HRC
- approx. 20% lighter than conventional electronics pliers
- bolted joint with particularly carefully manufactured joint surfaces for even, low-friction movement throughout the entire opening range
- smooth-running double spring for a gentle and even opening
- ergonomically optimized handle covers
- Chrome vanadium ball-bearing steel; forged

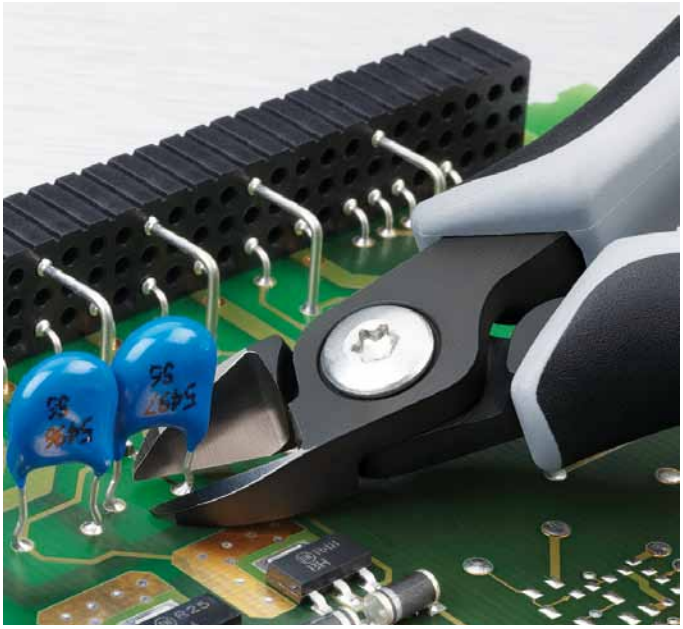
79 02 120 ESD / 79 22 120 ESD
mini-head

79 02 125 ESD / 79 22 125 ESD
round head

79 12 125 ESD
for cutting through hard wire and piano wire

79 32 125 ESD / 79 42 125 ESD
pointed head





Product Number	↔ inch		Pliers	Head	Handles	Cutting capacities Ø inch	Ø inch	Ø inch	Ø inch	Dimensions B inch	A inch	D inch	Ounces
79 02 120 ESD	4 3/4		burnished	polished	with multi-component grips	1/64 - 1/16	3/64	1/64		17/64	23/64	17/64	2.1
79 02 125 ESD	5		burnished	polished	with multi-component grips	1/64 - 5/64	3/64	1/32		25/64	7/16	17/64	2.2
79 12 125 ESD	5		burnished	polished	with multi-component grips	1/64 - 5/64	3/64	3/64	1/64	25/64	7/16	17/64	2.2
79 22 120 ESD	4 3/4		burnished	polished	with multi-component grips	1/64 - 3/64	1/32			17/64	23/64	17/64	2.2
79 22 125 ESD	5		burnished	polished	with multi-component grips	1/64 - 5/64	3/64			25/64	7/16	17/64	2.2
79 32 125 ESD	5		burnished	polished	with multi-component grips	1/64 - 1/16	3/64	1/64		13/32	7/16	17/64	2.2
79 42 125 ESD	5		burnished	polished	with multi-component grips	1/64 - 1/16	1/32			13/32	7/16	17/64	2.0

Product Number	↔ mm		Pliers	Head	Handles	Cutting capacities Ø mm	Ø mm	Ø mm	Ø mm	Dimensions B mm	A mm	D mm	Ounces
79 02 120 ESD	120		burnished	polished	with multi-component grips	0.2 - 1.4	1.0	0.6		6.5	9.0	6.5	2.1
79 02 125 ESD	125		burnished	polished	with multi-component grips	0.2 -1.7	1.3	0.7		10.0	11.0	6.5	2.2
79 12 125 ESD	125		burnished	polished	with multi-component grips	0.3 - 1.7	1.3	1.0	0.6	10.0	11.0	6.5	2.2
79 22 120 ESD	120		burnished	polished	with multi-component grips	0.1 - 1.3	0.8			6.5	9.0	6.5	2.2
79 22 125 ESD	125		burnished	polished	with multi-component grips	0.1 - 1.7	1.0			10.0	11.0	6.5	2.2
79 32 125 ESD	125		burnished	polished	with multi-component grips	0.2 - 1.5	1.1	0.6		10.5	11.0	6.5	2.2
79 42 125 ESD	125		burnished	polished	with multi-component grips	0.1 - 1.5	0.8			10.5	11.0	6.5	2.0


KNIPEX ALLIGATOR
MADE IN GERMANY
ON
OFF
BALL VALVE

81

Pipe Gripping Pliers

for plastic pipes and connectors

DIN ISO 5743

81 03 230

81 13 230

- ideal for tightening and releasing plastic pipe joints, round union nuts, etc. from 1"- 2 9/16" dia.
- serrated or smooth jaws
- 4-position adjustable slip joint
- Chrome vanadium electric steel; forged, oil-hardened

81 13 230
with plastic jaws for careful installation up to 2 23/64" dia.

Product Number	↔ inch	↔ mm		Pliers	Handles	Working capacity Ø inch	Working capacity Ø mm	Ounces
81 03 230	9 1/4	230		chrome plated	plastic coated	1 - 2 9/16	25 - 65	10.4
81 13 230	9 1/4	230		chrome plated	plastic coated	1 - 2 23/64	25 - 60	10.2
81 19 230	2 pairs of plastic jaws for 81 13 230							

84

Cycle Pliers

DIN ISO 5743

84 11 200

- for very narrow screw connections
- Special tool steel; forged, oil-hardened

84 11 200
straight head

84 21 200
20° angled head

Product Number	↔ inch	↔ mm		Pliers	Head	Handles	Recess Ø inch	Recess Ø mm	Head thickness inch	Head thickness mm	Ounces
84 11 200	8	200		black atramentized	polished	plastic coated	1/4 / 3/8	6 / 10	1/8	3.5	6.2
84 21 200	8	200	∠20°	black atramentized	polished	plastic coated	1/4 / 3/8	6 / 10	1/8	3.5	6.4

83 1

Pipe Wrenches 90°

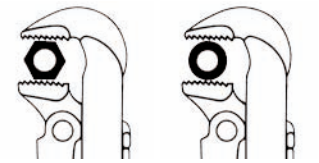
DIN 5234

83 10 015

90°

- Swedish pattern
- 90° angled jaws
- jaws with offset teeth in opposite directions
- teeth additionally induction hardened
- I-beam handle design
- captive adjusting nut
- red powder-coated, jaws bright ground

- Chrome vanadium electric steel; forged, oil-hardened



Product Number	↔ inch	↔ mm		Pliers	○ Ø inch	◎ inch	○ Ø mm	Clamping width inch	Clamping width mm	⚖ Ounces
83 10 010	12 1/2	310			1 5/8	1	42	1 5/8	42	27.5
83 10 015	17 1/2	420			2 3/8	1 1/2	60	2 3/8	60	50.0
83 10 020	22 1/2	560	90°	red powder-coated	2 3/4	2	70	2 3/4	70	91.7
83 10 030	25 1/2	650			4 3/8	3	110	4 3/8	110	121.1
83 10 040	29 1/2	750			5 1/8	4	130	5 1/8	130	173.6

83 2

Pipe Wrenches 45°

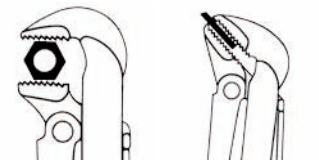
DIN 5234

83 20 015

45°

- Swedish pattern
- 45° angled jaws
- jaws with offset teeth in opposite directions
- teeth additionally induction hardened
- I-beam handle design
- captive adjusting nut
- red powder-coated, jaws bright ground

- Chrome vanadium electric steel; forged, oil-hardened



Product Number	↔ inch	↔ mm		Pliers	○ Ø inch	◎ inch	○ Ø mm	Clamping width inch	Clamping width mm	⚖ Ounces
83 20 010	13	320			1 5/8	1	42	1 5/8	42	28.9
83 20 015	17	430	45°	red powder-coated	2 3/8	1 1/2	60	2 3/8	60	49.7
83 20 020	22 1/2	570			2 3/4	2	70	2 3/4	70	91.6

83
3

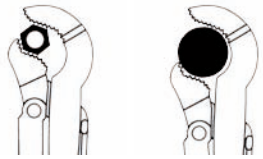
Pipe Wrenches S-Type

DIN 5234

83 30 015

- slim, S-type jaw
- jaws with offset teeth in opposite directions
- teeth additionally induction hardened
- three-point gripping on pipes; self-locking
- I-beam handle design
- captive adjusting nut
- red powder-coated, jaws bright ground

- Chrome vanadium electric steel; forged, oil-hardened



Product Number	↔ inch	↔ mm		Pliers	○ Ø inch	◎ inch	○ Ø mm	Clamping width inch	Clamping width mm	⚖ Ounces
83 30 005	9 1 /4	245			1 1/2	1/2	35	1 1/2	35	16.6
83 30 010	13	320			1 5/8	1	42	1 5/8	42	29.5
83 30 015	17	420	▤	red powder-coated	2 3/8	1 1/2	60	2 3/8	60	54.3
83 30 020	21 1/4	540			2 3/4	2	70	2 3/4	70	94.1
83 30 030	26 1/4	680			4 3/4	3	120	3 60/64	100	154.0

83
60

Pipe Wrench S-Type

with fast adjustment

- time-saving, precise adjustment of the opening width at the press of a button directly on the workpiece
- less effort required due to self-locking mechanism
- no unintentional shifting of the pliers
- high wear-resistance due to the additionally hardened teeth

83 60 010

83 60 015

Product Number	↔ inch	↔ mm		Pliers	○ Ø inch	◎ inch	○ Ø mm	Clamping width inch	Clamping width mm	⚖ Ounces
83 60 010	13	330	▤	red powder-coated	1 5/8	1/2	42	1 5/8	42	33.7
83 60 015	17	420	▤	red powder-coated	2 3/8	1 1/2	60	2 3/8	60	51.9

Pliers Wrenches

pliers and wrench in a single tool

ISO 5743

86 03 150

86 03 180

86 05 250

86 07 250 SBA

1000 V

86 03 300

Meet the Pliers Wrench:
A One-Of-A-Kind Tool with Unlimited Possibilities...

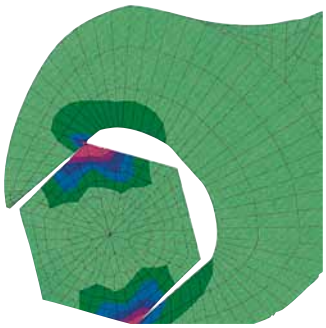
From gripping and holding to pressing and bending applications, there is little that the Pliers Wrench can't do. With smooth jaws that won't damage or mar the surface of workpieces to a push-button adjustment that maintains the tool's setting, the Pliers Wrench is everything that you need to get the job done.

- replaces a full set of inch and metric open end wrenches
- adjustable tightening tool
- excellent for gripping, holding, pressing and bending applications
- smooth jaws for careful installation of plated fittings
- will not round off nuts and bolts and won't damage chrome and other soft finishes
- parallel jaws allow infinitely variable gripping of all widths to the specified maximum size
- reliable catching of the hinge bolt: no unintentional shifting
- the action of the jaws allows bolted connections to be tightened and released quickly using the ratchet principle
- lever transmission greater than 10 - 1 for strong gripping power
- Chrome vanadium electric steel; forged, oil-hardened

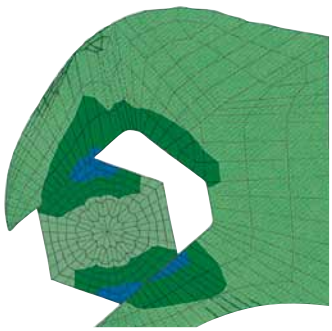
Length 6"
Mini Pliers Wrench for precision mechanics; ideal multi-purpose wrench in pocket size; perfect for inclusion in emergency tool kits; great for heavy duty use in tight locations

Length 7 1/4"
with narrow gripping jaws – for fastening/loosening situations requiring a slim tool

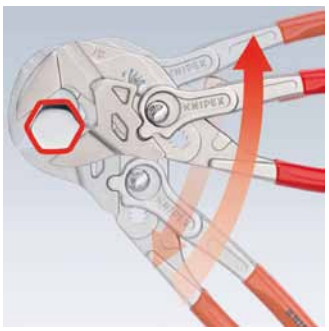
Working on plated fittings without damaging the surface



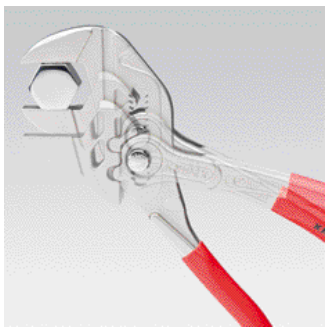
Conventional open end wrench:
edge pressure causes surface damage on edges of nuts and bolts



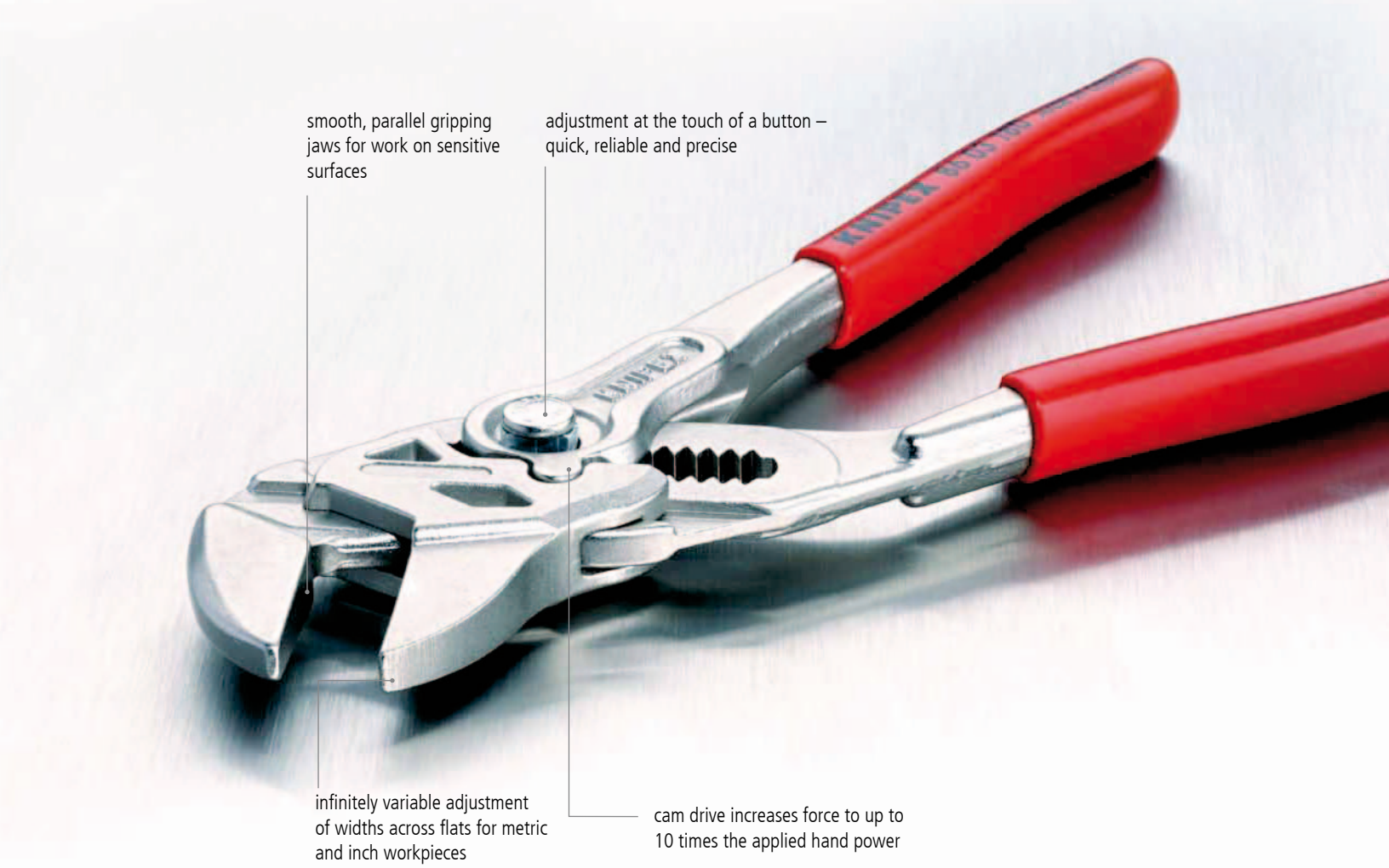
Pliers Wrench:
zero-backlash contact pressure, no damage to edges

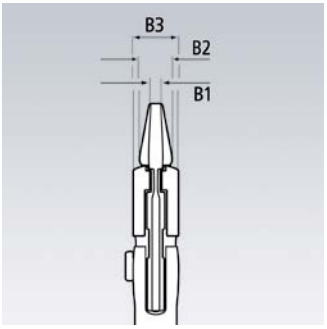


Works using the ratchet principle



Fast adjustment by pushing a button





Product Number	↔ inch	↔ mm		Pliers	Handles	⬡ inch	⬡ mm	Adjustment positions	Dimensions B1 inch	B2 inch	B3 inch	B1 mm	B2 mm	B3 mm	⚖ Ounces
86 03 150	6	150		nickel plated	plastic coated	1	27	14	3/16	9/32	13/32	4.7	7.0	10.5	6.2
86 03 180	7 1/4	180				1 3/8	35	13	13/64	5/16	15/32	5.0	8.0	12.0	9.0
86 03 250	10	250				1 3/4	46	17	5/16	5/16	35/64	8.0	8.0	14.0	19.0
86 03 300	12	300				2 3/8	60	22	3/8	3/8	19/32	9.5	9.5	15.0	25.7
86 05 150	6	150		nickel plated	with multi-component grips	1	27	14	3/16	9/32	13/32	4.7	7.0	10.5	6.8
86 05 180	7 1/4	180				1 3/8	35	13	13/64	5/16	15/32	5.0	8.0	12.0	9.8
86 05 250	10	250				1 3/4	46	17	5/16	5/16	35/64	8.0	8.0	14.0	20.1
86 07 250 SBA	10	250	1000 V	chrome plated	with dipped insulation grips, VDE-tested	1 3/4	46	17	5/16	5/16	35/64	8.0	8.0	14.0	21.7

87 0

KNIPEX Cobra® Hightech Water Pump Pliers

ISO 8976

87 01 125

87 01 150

87 01 180

87 01 250

87 01 300

87 02 250

87 03 250

87 05 250

Meet the Cobra® - The Indispensable Gripping Machine.
No more time-consuming test-adjusting to achieve the correct size. Now, simply position the upper jaw to the workpiece, press the button and close the lower jaw.
Say "goodbye" to those awful blood blisters you get with other gripping pliers. We've designed a built-in pinch guard that prevents blood blisters on your hand. Your safety is our first priority.

Innovative. Efficient. Safe. That's the KNIPEX Difference.

- adjustment at the touch of a button directly on the workpiece
- fine adjustment for optimum adaptation to different size work pieces and a comfortable gripping position
- self-locking on pipes and nuts: no slipping on the workpiece and low hand force required
- gripping surfaces with special hardened teeth, teeth hardness approx. 61 HRC; low wear and reliable gripping
- box-joint design: high stability because of double guide
- reliable catching of the hinge bolt: no unintentional shifting
- pinch guard prevents operators' fingers from being pinched
- Chrome vanadium electric steel; forged, oil-hardened

Length 5"
for use in precision mechanics, hobbies and in the home;
improved access in very confined spaces, perfect for an emergency tool kit

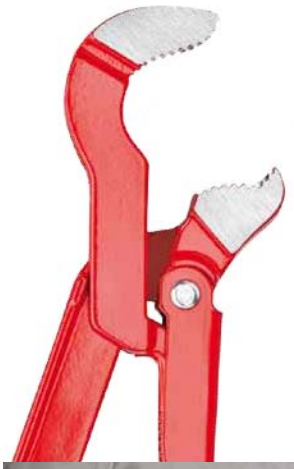
Length 7 1/4"
good access to the workpiece

Length 10"
very large gripping capacity; good access to the workpiece;
high load capacity having a slim design

Teeth set against the direction of rotation have a self-clamping effect and prevent slipping on the workpiece

Fine adjustment by pushing a button: fast and comfortable

Fast and firm adjustment directly on the workpiece



30% more capacity than
a conventional pipe wrench

Product Number	↔ inch	↔ mm		Pliers	Head	Handles	○↕ Ø inch	⬡↕ inch	○↕ Ø mm	⬡↕ mm	Adjustment positions	⚖ Ounces
87 01 125	5	125					1	1	27	27	13	3.0
87 01 150	6	150					1 1/4	1 12/64	32	30	11	5.1
87 01 180	7 1/4	180		grey atramentized	polished	with non-slip plastic coating	1 1/2	1 27/64	42	36	18	6.0
87 01 250	10	250					2	1 13/16	50	46	25	11.1
87 01 300	12	300					2 3/4	2 23/64	70	60	30	19.0
87 02 180	7 1/4	180					1 1/2	1 27/64	42	36	18	6.9
87 02 250	10	250		grey atramentized	polished	with multi-component grips	2	1 13/16	50	46	25	13.2
87 02 300	12	300					2 3/4	2 23/64	70	60	30	20.4
87 03 125	5	125					1	1	25	27	13	3.0
87 03 180	7 1/4	180					1 1/2	1 27/64	42	36	18	6.2
87 03 250	10	250		chrome plated		with non-slip plastic coating	2	1 13/16	50	46	25	11.1
87 03 300	12	300					2 3/4	2 23/64	70	60	30	19.0
87 05 180	7 1/4	180					1 1/2	1 27/64	42	36	18	6.9
87 05 250	10	250		chrome plated		with multi-component grips	2	1 13/16	50	46	25	13.2
87 05 300	12	300					2 3/4	2 23/64	70	60	30	20.4

87 0

KNIPEX Cobra® XL/XXL

Pipe and Water Pump Pliers

ISO 5743

87 01 400

87 01 560

The KNIPEX Cobra® XL and XXL offer the power and comfort of water pump pliers while being lighter in weight and having a greater gripping capacity than comparable pipe wrenches.
The **Cobra® XL** can grip a 3 1/2" pipe coupling and weighs 50% less than 2"pipe wrenches, which have a much lower gripping capacity. With its compact length of 16", the Cobra XL is perfect for the plumber's tool box.

The **Cobra® XXL** with its capacity of up to 4 1/2" only weighs as much as 2"pipe wrenches. It's 22" size makes it the biggest pliers around!

- greater gripping capacity but much lower weight than comparable pipe wrenches
- fast push-button adjustment directly on the workpiece; no unintentional slipping of the joint
- fine adjustment for optimum adaptation to different size workpieces and a comfortable handle width
- self-locking on pipes and nuts: no slipping on the workpiece and low handforce required
- gripping surfaces with special hardened teeth; teeth hardness approx. 61 HRC: low wear and reliable gripping
- box-joint design: high stability because of double guide
- pinch guard prevents operators' fingers from being pinched
- Chrome vanadium electric steel; forged, oil-hardened

Grips any shape object: round, square, hex or flat

Fine adjustment by pushing a button: fast and comfortable

Product Number	↔ inch	↔ mm		Pliers	Head	Handles	Ø inch	inch	Ø mm	mm	Adjustment positions	Ounces
87 01 400	16	400		grey atramentized	polished	plastic coated	3 1/2	3 3/4	90	95	27	42.8
87 01 560	22	560		grey atramentized	polished	plastic coated	4 1/2	4 3/4	115	120	20	97.0

Self-locking on pipes and nuts: no slipping on the workpiece and less handforce required

Fast and firm adjustment directly on the workpiece

Cobra® XL with union nut on 2"screwed pipe connection

to get to a gripping capacity of
3 3/4" you would otherwise
need a 3" pipe wrench

Cobra® XL

smaller in size and less weight
than 1 1/2" pipe gripping pliers

2" pipe gripping pliers

gripping capacity exceeded

85

KNIPEX Auto Adjusting Pliers PATENTED

ISO 8976

85 01 250

Cobra...Redefined.
Adjustment to the workpiece is automatic with the KNIPEX Auto Adjusting Pliers!
Just grip the pliers handles and squeeze - it's that easy!

- ideal for frequent changeovers to workpieces of different sizes
- automatic adjustment per one handed operation both for right-handed and left-handed use
- good access to the workpiece thanks to the slim dimensions in the head and joint area and the flush joint bolt
- self-locking on pipes and nuts: no slipping on the workpiece and low handforce required
- gripping surfaces with special hardened teeth, teeth hardness approx. 61 HRC: low wear and reliable gripping
- box-joint design: high stability because of double guide
- pinch guard prevents operators' fingers from being pinched
- locking lever for space saving transport with reliable closed handles
- Chrome vanadium electric steel; forged, oil-hardened

Automatic adjustment: no time-consuming trial and error adjusting to the correct opening size in case of differently sized workpieces

Slim dimensions for good access to the workpiece using one handed operation

Locking lever for space saving transport with reliable closed handles

Self-locking on pipes and nuts means no slipping off the work piece

Product Number	↔ inch	↔ mm		Pliers	Head	Handles	○ Ø inch	⬡ inch	○ Ø mm	⬡ mm	⚖ Ounces
85 01 250 US	10	250		grey atramentized	polished	with non-slip plastic coating	1 1/4	1 3/8	32	36	13.1

87 21

KNIPEX Cobra® QuickSet

Water Pump Pliers ISO 8976

87 21 250

- adjustment by shifting the jaw directly on to the workpiece: fast, secure and comfortable handling
- opening at the touch of a button
- fine adjustment for optimum adaptation to different workpiece sizes and a comfortable handle width
- good access to the workpiece due to slim size in the head and joint area
- self-locking on pipes and nuts: no slipping on the workpiece and low handforce required
- gripping surfaces with special hardened teeth, teeth hardness approx. 61 HRC: low wear and reliable gripping
- box-joint design: high stability because of double guide
- pinch guard prevents operators´ fingers from being pinched
- Chrome vanadium electric steel; forged, oil-hardened

Product Number	↔ inch	↔ mm		Pliers	Head	Handles	Ø inch	Ø mm	inch	mm	Adjustment positions	Ounces
87 21 250	10	250		grey atramentized	polished	with non-slip plastic coating	2	50	1 3/4	46	25	11.8

87 26

KNIPEX Cobra® VDE

Hightech Water Pump Pliers, insulated

ISO 8976 IEC 60900 DIN EN 60900

87 28 250 SBA

1000 V

It's easy to achieve the perfect capacity on the KNIPEX Cobra® VDE Pliers. You don't even have to push the button! Simply place the upper gripping jaw of the opened pliers on the workpiece and slide the lower handle forward.

- adjustment by shifting the jaw directly on to the workpiece: fast and reliable
- opening at the touch of a button off the workpiece
- fine adjustment for optimum adaptation to different workpiece sizes and a comfortable gripping position
- good access to the workpiece due to slim size in the head and joint area
- self-locking on pipes and nuts: no slipping on the workpiece and low handforce required
- gripping surfaces with special hardened teeth, teeth hardness approx. 61 HRC: low wear and reliable gripping
- box-joint design: high stability because of double guide
- pinch guard prevents operators' fingers from being pinched
- Chrome vanadium electric steel; forged, oil-hardened

Quick adjustment to the workpiece without using the push-button, hands stay behind guard

Just push the pliers handle to adjust

Product Number	↔ inch	↔ mm		Pliers	Head	Handles	Ø inch	Ø mm	inch	mm	Adjustment positions	Ounces
87 28 250	10	250	1000 V	grey atramentized	polished	insulated with multi-component grips, VDE-tested	2	50	1 3/4	46	24	12.0

87
4

KNIPEX RAPTOR™ Pliers PATENTED

ISO 5743

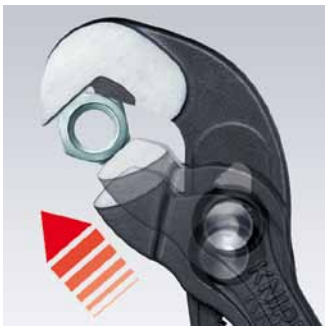
87 41 250

The KNIPEX Raptor™ Pliers combines the convenience of the comfortable push-button adjustment on the workpiece and the function of an all-purpose tightening tool.
Jaw gripping with zero backlash prevents slipping on the bolt head or rounding edges. Even rusty or thick-coated bolted connections, which usually cannot be gripped by a conventional spanner, can be managed by the exceptionally powerful gripping jaws of this tool.

- for inch and metric nuts and screws with widths across flats from 3/8" up to 1 1/4"; self-locking in the range from 11/16" on; no slipping on the workpiece
- zero-backlash gripping of inch or metric hexagonal head screws; no rounding of screw heads
- reliable and tight gripping of rounded, rusty or overly painted nuts and screws; ideal for work on vehicle brake systems
- quick tightening of nuts and bolts using ratchet action
- adjustment at the touch of a button directly on the workpiece, one handed operation
- fine adjustment for optimum adaptation to different size workpieces and a comfortable handle width
- box-joint design: high stability because of double guide
- secure catching of the hinge bolt: no unintentional shifting
- favorable lever action: optimum transmission of force
- guard prevents operators' fingers from being pinched
- replaces a set of wrenches; ideal for tightening locknuts
- Chrome vanadium electric steel; forged, oil-hardened

Grips rusted nuts with rounded edges

Self-locking: no slipping on the workpiece and less effort required



Fine adjustment by pushing a button: fast and comfortable

KNIPEX Raptor™ Pliers as the second spanner for tightening locknuts

Product Number	↔ inch	↔ mm		Pliers	Head	Handles	⬡ inch	⬡ mm	Adjustment positions	⚖ Ounces
87 41 250 RAP	10	250		grey atramentized	polished	with non-slip plastic coating	3/8 - 1 1/4	10 - 32	15	11.6

87
5

KNIPEX Cobra® ES

Water Pump Pliers extra-slim

ISO 8976

87 51 250

The KNIPEX Cobra ES is ideal for working in confined areas. Featuring a slim head and long, narrow jaws, this tool reaches into places other pliers can't.

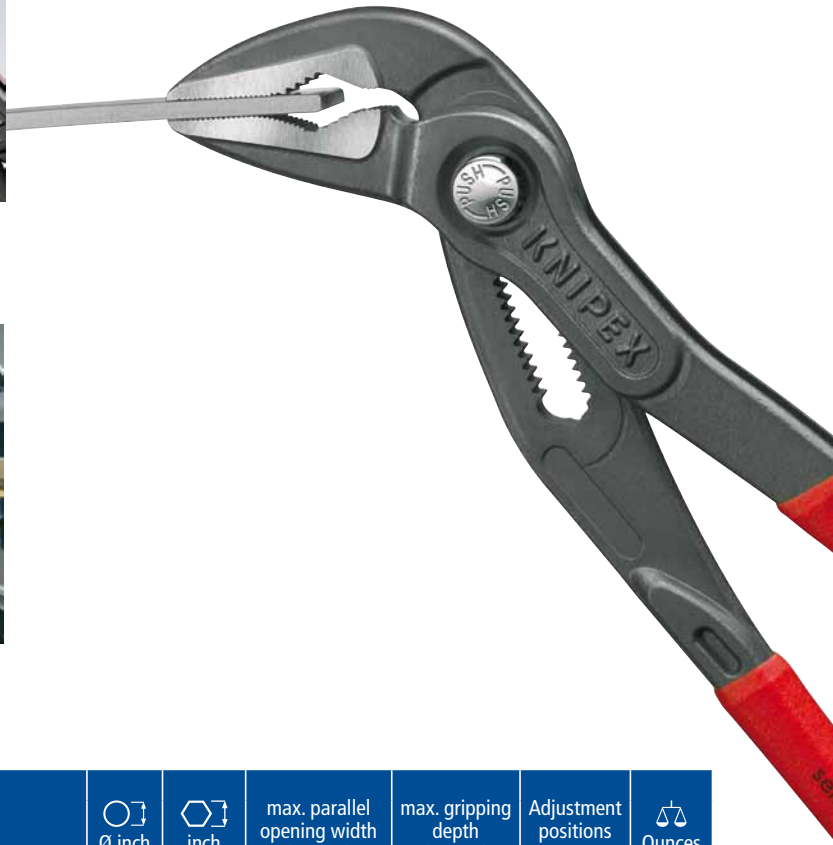
- ideal for service and maintenance, equipment repair, automotive and general industry
- long, narrow jaws
- good access to the workpiece due to very slim construction of head and joint area
- grips flat material due to the three-point rest
- adjustment at the touch of a button directly on the workpiece
- fine adjustment for optimum adaptation to different size workpieces and a comfortable handle width
- self-locking on pipes and nuts: no slipping on the workpiece and low handforce required
- box-joint design: high stability because of double guide
- secure catching of the hinge bolt: no unintentional shifting
- favorable lever action: optimum transmission of force
- guard prevents operators' fingers from being pinched
- Chrome vanadium electric steel; forged, oil-hardened

Grips nuts up to 1 3/8" across flats

Slim head and joint area (compared to conventional water pump pliers)

Fine adjustment by pushing a button: fast and comfortable

Optimum access to the workpiece. Ideal for service and maintenance, equipment repair, automotive and general industry



Product Number	↔ inch		Pliers	Head	Handles	○ Ø inch	⬡ inch	max. parallel opening width (in inch)	max. gripping depth (in inch)	Adjustment positions	⚖ Ounces
87 51 250	10		grey atramentized	polished	with non-slip plastic coating	1 1/4	1 3/8	1 1/2	1 5/8	19	11.6

Product Number	↔ mm		Pliers	Head	Handles	○ Ø mm	⬡ mm	max. parallel opening width (in mm)	max. gripping depth (in mm)	Adjustment positions	⚖ Ounces
87 51 250	250		grey atramentized	polished	with non-slip plastic coating	32	34	37	42	19	11.6

88

KNIPEX Alligator® Water Pump Pliers

ISO 8976

88 01 180

88 01 250

88 02 250

Meet the Alligator®
More output and comfort compared to conventional water pump pliers of the same length: offer 9 adjustment positions for 30% more gripping capacity; good access to the workpiece due to slim size in the head and joint areas

- self-locking on pipes and nuts: no slipping on the workpiece and low handforce required
- gripping surface with special hardened teeth, teeth hardness approx. 61 HRC; low wear and reliable gripping
- box-joint design: high stability because of double guide
- robust construction; particularly suitable for heavy duty work
- pinch guard prevents operators' fingers from being pinched
- Chrome vanadium electric steel; forged, oil-hardened

Self-locking on pipes and nuts; no slipping on the workpiece. Less handforce is required since handles do not need to be squeezed. Simply put pressure on the upper handle for a powerful grip.

88 07 250
1000 V

88 08 250
1000 V

Alligator®

Conventional water pump pliers

KNIPEX Alligator®

specially hardened teeth
high resistance to wear, allowing continuous and reliable gripping

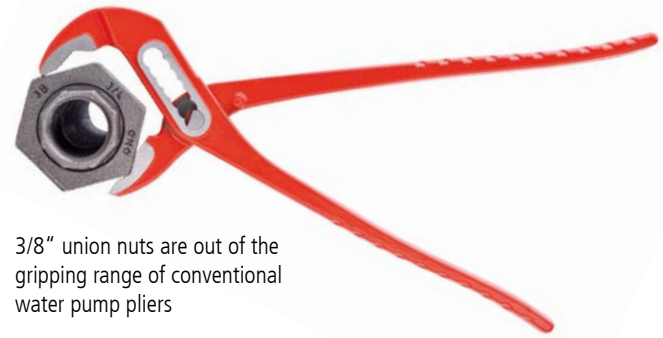
robust adjusting mechanism
insensitive to dirt; particularly suitable for outdoor work

9 adjustment position
30% more gripping capacity, optimized adjustment to the workpiece and a comfortable gripping position; slim size

box joint, double guide
no loosening of the joint connection; heavy duty

Alligator® 250: convincing alternative

The Alligator® 250 mm grips the union nut in a 3/4" screw connection with comfortable handle positioning



3/8" union nuts are out of the gripping range of conventional water pump pliers

Alligator® 300 instead of a 1 1/2" pipe wrench

Alligator® 300: 2 3/4" capacity compared to the 1 1/2" capacity of conventional pipe wrenches

Product Number	↔ inch	↔ mm		Pliers	Head	Handles	○ Ø inch	⬡ inch	○ Ø mm	⬡ mm	Adjustment positions	⚖ Ounces
88 01 180	7 1/4	180		black atramentized	polished	with non-slip plastic coating	1 1/2	1 3/8	42.0	36.0	9	6.3
88 01 250	10	250					2	1 3/4	50.0	46.0	9	11.3
88 01 300	12	300					2 3/4	2 3/8	70.0	60.0	9	18.0
88 02 180	7 1/4	180		black atramentized	polished	with multi-component grips	1 1/2	1 3/8	42.0	36.0	9	7.6
88 02 250	10	250					2	1 3/4	50.0	46.0	9	12.6
88 02 300	12	300					2 3/4	2 3/8	70.0	60.0	9	20.0
88 07 250	10	250		black atramentized	chrome plated	plastic dipped insulated	2	1 3/4	50.0	46.0	9	11.3
88 08 250 SBA	10	250	1000 V	black atramentized	polished	insulated with multi-component grips, VDE-tested	2	1 3/4	50.0	46.0	9	13.7

90

Mini Water Pump Pliers with groove joint

ISO 8976

- easy, convenient engagement in 4 different positions
- tongue and groove slip joint
- all strain removed from the joint screw; no wear on pivot
- pinch guard prevents operators' fingers from being pinched
- Chrome vanadium electric steel; forged, oil-hardened

90 01 125

Product Number	↔ inch	↔ mm		Pliers	Head	Handles	Ø inch	inch	Ø mm	mm	Ounces
90 01 125	5	125		black atramentized	polished	plastic coated	5/8	1/2	17	14	3.6

90 20

Pipe Cutter

for plastic conduit pipes and flexible hoses

90 20 185

Turning the cutter slightly when operating prevents brittle pipes from splitting or breaking.

- for cutting thin-walled plastic pipes (conduit plastic pipes) and flexible hoses, also with fabric reinforcement, of plastic and rubber up to 1″ exterior dia.
- not suitable for cutting cables
- with opening spring and locking lever
- tool body: plastic, fiberglass – reinforced
- blade: Special tool steel; oil-hardened, interchangeable

With replaceable blade

Product Number	inch	mm		Cutting capacities Ø inch	Ø mm	Ounces
90 20 185	7 1/4	185		1	25	6.1

90 29 185	Spare blade for 90 20 185	

90 25

Pipe Cutter

for composite pipes and corrugated conduit

PATENTED

90 25 20

- for cutting composite pipes with diameters of 1/2″ - 1″ and for cutting flexible corrugated conduit pipes with a diameter of 3/4″ - 1 3/8″ without damaging the pipe inside
- a calibration arbor can be fitted, for example for Geberit composite pipes with 29/64″ and 38/64″ dia.
- tool body: High-grade chrome vanadium electric steel; oil-hardened
- blades: Special tool steel; oil-hardened, interchangeable

Composite pipes of 1/2 - 1″dia. are cut cleanly and without deformation

Clean cut of corrugated conduit 3/4″ - 1 3/8″ dia.

Product Number	inch	mm		Tool	Handles	Cutting capacities composite pipes Ø inch	protective pipes Ø inch	Blade length inch	composite pipes Ø mm	protective pipes Ø mm	Blade length mm	Ounces
90 25 20	8 1/4	210		galvanized	with multi-component grips	1/2 - 1	3/4 - 1 3/8	1	12 - 25	18 - 35	25	11.7

90 29 01		Spare blade for 90 25 20 (composite pipes)
90 29 02		1 pair of spare blades for 90 25 20 (protective pipes)
90 29 15		Calibration arbor for 90 25 20 (Geberit pipes)

90 25

Pipe Cutter for composite and plastic pipes

PATENTED

- for cutting thick-walled plastic and composite pipes with diameters from 1 - 1 37/64"
- cuts pipes using the ratchet principle in several strokes
- self-adapting pipe support positions pipes of various diameters correctly for a rectangular cut
- tool body: High-grade chrome vanadium electric steel, oil-hardened
- blade: Special tool steel; oil-hardened, interchangeable

90 25 40

Clean cut of thick-walled plastic and composite pipes

Not suitable for thin-walled conduit pipes. Please use article number 90 20 185 for those

Product Number	↔ inch	↔ mm		Tool	Handles	Cutting capacities Ø inch	Cutting capacities Ø mm	Cutting edge length inch	Cutting edge length mm	Ounces
90 25 40	8 1/4	210		galvanized	with multi-component grips	1 - 1 37/64	26 - 40	1 37/64	40	17.6

90 29 40		Spare blade for 90 25 40

90 4

Punch Lock Riveters

- to join metal section sheets used in drywalling with a lock seam
- for U- and C-shaped sections with max 3/64" (5/64 x 1/64) metal
- minimal handforce required due to optimum lever transmission
- pliers body: Special tool steel; rolled, oil-hardened

90 42 250

90 42 250
for one handed operation

90 42 340

Preparing the pliers for connection of two metal section sheets

The punching tool is squeezed through the metal section sheets

Product Number	↔ inch	↔ mm		Pliers	Handles	Capacity		Ounces
90 42 250	10	250		burnished	with multi-component grips	3/64" (5/64 x 1/64)	max. 1,2 (2 x 0,6)	23.8
90 42 340	13 2/5	340		burnished	with multi-component grips	3/64" (5/64 x 1/64)	max. 1,2 (2 x 0,6)	31.8

90 49 340		Spare punch for 90 41 340 and 90 42 340
90 49 340 M		Spare die for 90 41 340 and 90 42 340

90 55 Sheet Metal Nibbler

90 55 280

- for cutting iron, copper or aluminium sheet metal up to max. 3/64" thickness, plastic up to max. 5/64" thickness
- materials are cut without deformation
- clean-cut edges
- with chip breaker
- easy handling
- cutting width: 7/64"
- tool body: Special tool steel; rolled, oil-hardened
- blade: Special tool steel; oil-hardened, interchangeable

Product Number	↔ inch	↔ mm		Tool	Handles	⚖ Ounces
90 55 280	11	280		nickel plated	with multi-component grips	16.3
90 59 280		Spare blade for 90 55 280				

Notching and chip breaking in a single pass

Notching without chip breaking

90 61 Notching Pliers PATENTED

90 61 20

The KNIPEX Notching Pliers produce the most common notches in plastic ledges and cable ducts in a simple, fast and clean way. No time-consuming sawing out or nibbling and no additional work required.

- special pliers for notching recesses into plastic ledges and plastic casings for electric and sanitary installation
- notches can be enlarged by initial and final cut
- clean-cut edges
- easy handling
- with opening spring, opening limiter and locking lever
- pliers body: Special tool steel; rolled, oil-hardened

Product Number	↔ inch	↔ mm		Pliers	Handles	Capacity		⚖ Ounces
90 61 16	10	250		burnished	with plastic grips	5/8 - 1 1/4"	16 x 32 mm	14.2
90 61 20	10	250				51/64 - 1 9/64	20 x 29 mm	14.6

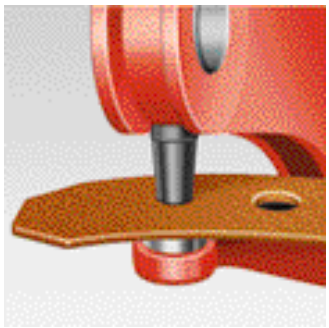
90 7

Revolving Punch Pliers

90 70 220

- for punching out holes in leather, textiles and plastic materials
- with six interchangeable punches: 5/64, 3/32, 1/8, 9/64, 5/32, 13/64 in dia.
- with opening spring and locking lever
- powder coated for reliable protection against rust
- pliers body and punches: Special tool steel; oil-hardened

Product Number	↔ inch	↔ mm		Pliers	Finish	⚖ Ounces
90 70 220	8 3/4	220		red powder coated	powder coated	8.9



Interchangeable punches

91 3

Glass Breaking Pincer

ISO 5743

91 31 180

- for breaking glass to a scored line
- Special tool steel; forged, oil-hardened

Product Number	↔ inch	↔ mm		Pliers	Head	Handles	Jaw width inch	Jaw width mm	⚖ Ounces
91 31 180	7 1/4	180		black atramentized	polished	plastic coated	15/16	24.0	8.6

91

Glass Nibbling Pincers

ISO 5743

- for breaking off narrow strips of glass to a scored line
- for finishing off glass edges to required profile
- Special tool steel; forged, oil-hardened

91 51 160

91 71 160

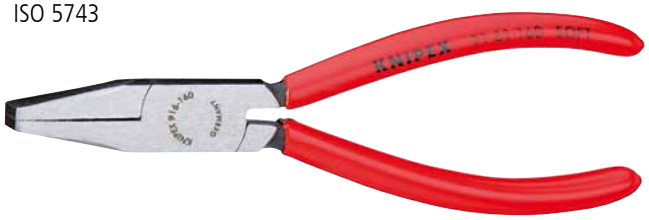
Product Number	↔ inch	↔ mm		Pliers	Head	Handles	Jaw width inch	Jaw width mm	⚖ Ounces
91 51 160	6 1/4	160	▤	black atramentized	polished	plastic coated	3/8	9.5	5.2
91 71 160	6 1/4	160		black atramentized	polished	plastic coated	5/32	4.0	5.0

91 6

Flat Nose Grozing Pliers

ISO 5743

- with soft gripping jaws
- for trimming glass edges, e.g. when making leaded glass windows
- Special tool steel; forged, oil-hardened



91 61 160

Product Number	↔ inch	↔ mm		Pliers	Head	Handles	Jaw width inch	Jaw width mm	⚖ Ounces
91 61 160	6 1/4	160	▤	black atramentized	polished	plastic coated	3/8	9.5	5.0

92

Precision Tweezers needle-pointed shape

- for ultra fine mounting work
- extra fine tips
- smooth gripping surfaces
- stainless, non-magnetic
- non-reflective matte finish

92 22 12

92 22 12
straight pattern

92 22 13

92 22 13
solid; straight pattern; stainless, non-magnetic and acid-proof

Product Number	↔ inch	↔ mm		Finish	⚖ Ounces
92 22 12	4	105		stainless, non-magnetic	5.0
92 22 13	5 1/4	135		stainless, non-magnetic, acid-proof	7.0

92

Precision Tweezers

with dowel pin pointed shape

- universally applicable
- narrow tips
- gripping surfaces with fine transverse serration
- serrated handles

92 22 35

92 22 35
straight pattern; non-reflective matte finish; stainless, non-magnetic and acid-proof

92 34 36

92 34 36
bent tips; nickel plated

Product Number	↔ inch	↔ mm		Finish	⚖ Ounces
92 22 35	6	155		stainless, non-magnetic, acid-proof	8.0
92 34 36	6	155	∡45°	nickel plated	8.0

92

Precision Tweezers blunt shape

- universally applicable
- straight pattern
- wide, round tips
- serrated handles

92 70 46

92 70 46
round tips, approx. 9/64 in wide; gripping surfaces with fine transverse serrations; black, non-reflective lacquered

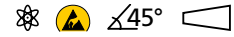
Product Number	↔ inch	↔ mm		Finish	⚖ Ounces
92 70 46	5 3/4	145		black lacquered	9.0

92

Precision Tweezers ESD

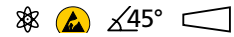
- Chrome nickel steel: stainless, non-magnetic (18/10); very popular electronics quality
- ESD coating: non-reflective black, with a surface resistance of approx. 10^5 Ohm
- tips: non-reflective, brushed
- gripping surfaces: matte-finish for optimum grip

92 08 78 ESD



92 28 69 ESD

92 38 75 ESD



92 58 74 ESD

92 08 78 ESD
for SMD-technology*; bent tips; smooth gripping surfaces

92 28 69 ESD
straight pattern; strong tip; smooth gripping surfaces

92 38 75 ESD
sickle-shaped tips; smooth gripping surfaces

92 58 74 ESD
round tips, approx. 5/64 in. wide; straight pattern; smooth gripping surfaces

Product Number	↔ inch	↔ mm		Finish	⚖ Ounces
92 08 78 ESD	4 3/4	120	45°	stainless, non-magnetic, electrically dissipative	5.6
92 28 69 ESD	5 1/4	130		stainless, non-magnetic, electrically dissipative	7.0
92 38 75 ESD	4 3/4	120	45°	stainless, non-magnetic, electrically dissipative	6.0
92 58 74 ESD	4 3/4	120		stainless, non-magnetic, electrically dissipative	7.0

* SMD-Technology: technique for soldering surface-mounted components on printed circuit boards without using holes. Technical change and errors excepted

92

Precision Tweezers insulated

IEC 60900 ASTM F1505

- insulated and tested according to IEC 60900 : ASTM F1505
- plastic dipped insulated
- nickel plated
- Spring steel, high-strength

92 27 61
1000 V

92 27 62
1000 V

92 37 64
1000 V 45°

92 67 63
1000 V

92 27 61
for ultra fine mounting work; extra fine tips; straight pattern; gripping surfaces matte-finished for optimum grip

92 27 62
straight pattern; gripping surfaces with fine transverse serration

92 37 64
bent tips; gripping surfaces with fine transverse serration

92 67 63
straight pattern; serrated gripping surfaces

Product Number	↔ inch	↔ mm		Finish	⚖ Ounces
92 27 61	5 1/4	130	1000 V	plastic dipped insulated	1.1
92 27 62	6	150	1000 V	plastic dipped insulated	1.2
92 37 64	6	150	1000 V 45°	plastic dipped insulated	1.2
92 67 63	5 3/4	145	1000 V	plastic dipped insulated	1.5

95

Cable Shears

IEC 60900 ASTM F1505

95 06 230

1000 V

- insulated and tested according to IEC 60900 / ASTM F 1505
- not suitable for ACSR, steel wire and hard drawn copper conductors
- precision ground, hardened blades
- no crushing
- with pinch guard and slip guard
- adjustable bolted joint
- shears body: Surgical steel; stainless, air-hardened
- handles: plastic, impact-resistant

95 06 230
for copper conductors single wire up to 16 mm², multiple wire up to 1/0 AWG, fine- stranded up to 70 mm² and aluminium conductors multiple wire up to 70 mm²; easy cutting with one handed operation due to high transmission ratio; stainless – surgical steel, oil-hardened and tempered

Product Number	↔ inch	↔ mm		Head	Handles	Cutting capacities Ø inch	Ø mm	mm²	AWG	Ounces
95 06 230	9 1/4	230	1000 V	polished	plastic insulated, VDE-tested	5/8	16.0	50	1/0	9.7

95

Cable Shears

95 11 165

95 12 165

95 18 165 SBA

1000 V

95 21 165 SBA

95 22 165

- for cutting copper and aluminium cables, single and multiple wire
- not suitable for ACSR, steel wire and hard drawn copper conductors
- precision ground, hardened blades
- clean and smooth cut without crushing and deformation
- easy cutting with one hand operation
- with pinch guard and slip guard
- adjustable bolted joint, self-locking screw
- High-grade special tool steel; forged, oil-hardened

Style 2
internal opening spring, protected and captive

Cut performed with a Diagonal Cutter: high effort required, inaccurate cut, considerable deforming and crushing of the cable

Cut performed with a Cable Shear: easy, clean cut without any deformation of the cable

Product Number	↔ inch	↔ mm		Style	Tool	Handles	Cutting capacities Ø inch	Ø mm	mm²	AWG	Ounces
95 11 165	6 1/4	165		1	burnished	plastic coated	19/32	15.0	50	1/0	7.6
95 12 165	6 1/4	165		1	burnished	with multi-component grips	19/32	15.0	50	1/0	8.8
95 18 165 SBA	6 1/4	165	1000 V	1	burnished	insulated with multi-component grips, VDE-tested	19/32	15.0	50	1/0	8.8
95 21 165	6 1/4	165		2	burnished	plastic coated	19/32	15.0	50	1/0	7.6
95 22 165	6 1/4	165		2	burnished	with multi-component grips	19/32	15.0	50	1/0	9.0

95 1

Cable Shears with twin cutting edges

PATENTED

The double cutting edge allows a comfortable handle position in all cutting situations inside the specified cutting capacity.

95 11 200

- for cutting copper and aluminium cables
- not suitable for ACSR, steel wire and hard drawn copper conductors
- precision ground, hardened blades
- clean and smooth cut without crushing and deformation
- by dividing the cutting actions into initial cut (insulating sheath in the front cutting area) and final cut (conductor in the back cutting area), cables up to Ø 51/64" can be cut in one handed operation
- less effort required due to favorable lever ratio and optimized cutting edge geometry
- with pinch guard and slip guard
- adjustable screw joint, self-locking
- High-grade special tool steel; forged, oil-hardened

95 12 200

95 18 200 SBA

- insulated and tested according to IEC 60900 and ASTM F1505

95 18 200 SBA

Initial cut:
Using the front cutting edge to cut the insulating sheath on larger cable diameters leaves an ergonomic handle opening width.

Final cut:
After cutting the sheath in the front profile, the cut is finished through the metal part of the cable in the rear profile. Initial cut in the front profile, final cut in the rear profile – to keep it as easy as possible.

Product Number	↔ inch	↔ mm		Tool	Handles	Cutting capacities Ø inch	Ø mm	mm²	AWG	Ounces
95 11 200	8	200		burnished	plastic coated	51/64	20.0	70	2/0	10.0
95 12 200	8	200		burnished	with multi-component grips	51/64	20.0	70	2/0	11.4
95 18 200 SBA	8	200	1000 V	burnished	insulated with multi-component grips, VDE-tested	51/64	20.0	70	2/0	12.0

95

Cable Shears

95 12 500

95 17 500

1000 V

- for cutting copper and aluminium cables, single and multiple wire
- not suitable for ACSR, steel wire and wire ropes
- precision ground, hardened blades
- clean and smooth cut without crushing and deformation
- low handforce required due to favorable lever ratio and new blade geometry
- short design, length only 20"
- lightweight
- with pinch guard
- adjustable bolted joint
- cutter head: Vanadium electric steel; forged, oil-hardened
- handle shank: aluminium tube, high-strength

95 17 500

- insulated and tested according to IEC 60900 and ASTM F1505

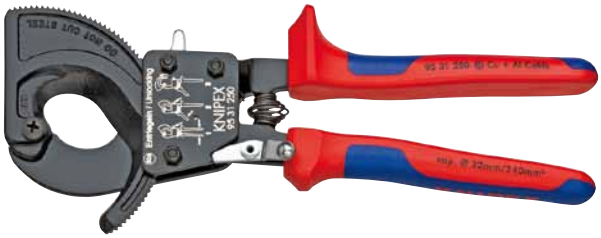
Large cutting capacity:
max. 1" dia. / cap. max. AWG 5/0

Product Number	↔ inch	↔ mm		Head	Handles	Cutting capacities Ø inch	Ø mm	mm²	AWG	Ounces
95 12 500	20	500		burnished	with multi-component grips	1	27.0	150	5/0	38.4
95 17 500	20	500	1000 V	polished	plastic dipped insulated, VDE-tested	1	27.0	150	5/0	52.1

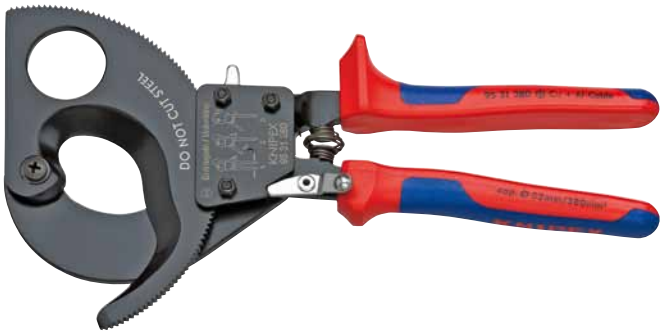
95
3

Cable Cutters (ratchet action)

PATENTED



95 31 250



95 31 280

95 31/36 280
suitable for aluminium sector cable up to 4 x 150 mm²

- for cutting copper and aluminium cables, single and multiple wire
- not suitable for ACSR, steel wire and wire ropes
- precision ground, hardened blades
- clean and smooth cut without crushing and deformation
- one handed operation using ratchet principle
- little handforce required due to very high transmission ratio
- two-stage ratchet drive for easy cutting
- simple handling as a result of light weight and compact design – can be used even in confined areas
- with pinch guard and slip guard
- High-grade special tool steel; forged, oil-hardened

95 31 280: Large cutting capacity:
max. 2" dia. / cap. max. 750 MCM

Ratchet principle and two-stage ratchet drive for easier cutting

95 3

Cable Cutters (ratchet action)

PATENTED

95 36 250 / 280
insulated and tested according to IEC 60900 and ASTM F1505

95 36 250
1000 V

95 31 250/280: fixed handle with support area as an aid to position the pliers when cutting

Product Number	↔ inch	↔ mm		Tool	Handles	Cutting capacities Ø inch	Ø mm	mm²	MCM	Ounces
95 31 250	10	250		black lacquered	with multi-component grips	1 1/4	32.0	240	500	23.8
95 31 280	11	280		black lacquered	with multi-component grips	2	52.0	380	750	30.3
95 36 250	10	250	1000 V	black lacquered	insulated with multi-component grips, VDE-tested	1 1/4	32.0	240	500	23.0
95 36 280	11	280	1000 V	black lacquered	insulated with multi-component grips, VDE-tested	2	52.0	380	750	29.5

95 3

Cable Cutters (ratchet action)

Sturdy. Easy to use. Innovative ratchet-drive.
For cable up to 2 23/64" in diameter.

- easy handling due to low weight (28.2 oz) and compact construction (12 1/2" length) – usable in confined areas
- cutting through copper and aluminium cables with diameters of up to 2 23/64" in one handed and two handed operation
- hardened cutting edges, precisely ground, cut smoothly and neatly without crushing
- for cutting copper and aluminium single conductors as well as multiple stranded cables
- not suitable for cutting ACSR, steel wire and wire ropes
- innovative three-stage ratchet-drive with high leverage for easy cutting in one handed and two handed operation
- with pinch guard and slip guard
- fixed handle with support area for laying down the pliers when cutting
- High-grade special tool steel; forged, oil-hardened

95 32 320

95 36 320
1000 V

95 36 320
- insulated and tested according to IEC 60900 and ASTM F1505

Product Number	↔ inch	↔ mm		Tool	Handles	Cutting capacities Ø inch	Ø mm	mm²	MCM	Ounces
95 32 320	12 1/2	320		black atramentized	with multi-component grips	2 23/64	60.0	600	1200	28.2
95 36 320	12 1/2	320	1000 V	black atramentized	insulated with multi-component grips, VDE-tested	2 23/64	60.0	600	1200	28.2
95 39 280		Movable spare blade for 95 31 280 / 95 36 280								

95
32

Cable Shears (ratchet action)

with telescopic handles

95 32 038

The handles are adjustable in length and can be angled for easier work: set the handle length to the optimum lever for powerful cutting; put the handle at an angle for an ergonomic gripping position.

Cable Shears with adjustable telescopic handles allow angular positioning

- for cable diameters up to 1 1/2"; handles can be positioned at an angle to set the optimum handle width; also suitable for work in confined areas
- comfortable work thanks to ratchet action and light weight
- heavy duty telescopic handles made of oval aluminium tubing; extendable up to 30" for maximum leverage on large cable diameters; retractable down to 22" for minimum space requirements during transport
- replaceable cutting head
- extensive cutting range up to max. Ø 1 1/2" or max. 550 MCM in copper and aluminium cables
- easier, neater cut due to optimized cutting edge geometry
- adjustable bolted joint
- cutting head: Special quality, high-grade tool steel; oil-hardened
- handles: high-strength oval aluminium tubing

Setting of a favorable handle position

After the first partial cut, the handles open by ratchet

Repeat cutting and opening actions until the cable is cut through

Product Number	↔ inch	↔ mm		Head	Handles	Cutting capacities Ø inch	Ø mm	mm²	MCM	Ounces
95 32 038	22	560		burnished	with multi-component grips	1 1/2	38.0	280	550	69.8
95 39 038		Spare cutter head for 95 32 038								

95
32

Cable Cutters (ratchet action)

with telescopic handles

95 32 060

- for copper and aluminium cables, single and multiple wire – also with hard rubber or plastic sheath
- not suitable for steel wire and wire ropes
- also suitable for cables with sheet metal sheath
- little handforce required for cutting due to optimum transmission ratio
- with pinch guard
- high cutting capacity due to two handed operation and ratchet action
- the blade can be opened in any cutting position
- blade: Special quality, high-grade tool steel; oil-hardened
- handles: high-strength oval aluminium tubing

- handle length with multiple position adjustment from 15 3/4" - 23 5/8" (short transport length, individual adaptation to working conditions)

Product Number	↔ inch	↔ mm		Head	Handles	Cutting capacities Ø inch	Ø mm	mm²	MCM	Ounces
95 32 060	24 3/4	630		burnished	with multi-component grips	2 23/64	60.0	740	1400	135.0
95 32 100	26	680				3 15/16	100.0	960	1900	176.0

95 39 720		Movable spare blade for 95 31 720 / 95 32 060
95 39 870		Movable spare blade for 95 31 870 / 95 32 100

95
6

Wire Rope Shears forged

double function: neat cutting, precise crimping

95 61 190

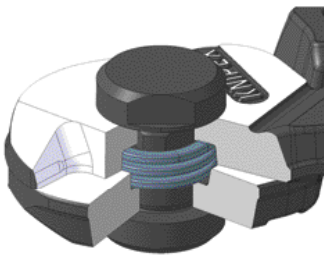
Cuts all wire ropes without splaying or fanning out, including strong materials like tire cord.

- with two crimping dies for end caps on Bowden cable sheaths and end ferrules for wire rope
- comfortable work thanks to slim design and internal opening spring
- bolted joint for precise blade guidance, readjustable
- high leverage for reduced effort
- cutting edge hardness approx. 64 HRC
- Chrome vanadium heavy-duty steel; forged, oil-hardened

95 62 190

Crimping of the end ferrule onto the traction cable

Crimping of the end caps on the Bowden cable sheath



Internal opening spring

Product Number	↔ inch	↔ mm		Head	Handles	Cutting capacities Ø inch	Ø inch	Ø inch	Ø inch	Ø mm	Ø mm	Ø mm	Ø mm	Ounces
95 61 190	7 1/2	190		polished	plastic coated	9/32	1/4	5/32	7/64	7.0	6.0	4.0	2.5	11.0
95 62 190	7 1/2	190		polished	with multi-component grips	9/32	1/4	5/32	7/64	7.0	6.0	4.0	2.5	11.0

95 6

Bowden Cable Cutter

95 61 150

- for Bowden cables and soft wire rope up to 1/8" dia. (also V2A)
- smooth and clean cutting due to special shape of the cutting edges
- sickle shape cutting edges surround the material and prevent the wire rope fanning out
- little handforce required due to very high transmission ratio
- with opening spring and locking lever
- cutting edges additionally induction hardened
- High-grade special tool steel; forged, oil-hardened

Product Number	↔ inch	↔ mm		Shears	Head	Handles	Cutting capacities Ø inch	Ø mm	Ounces
95 61 150	6	150		black atramentized	polished	plastic coated	1/8	3.0	7.2

95

Wire Rope and Cable Cutters

95 71 600

95 77 600
1000 V

- for ACSR, wire ropes and steel rods, copper and aluminium cables
- angular cutting blades prevent fanning out
- optimum transmission ratio for high cutting performance
- bolted cutter head; replaceable
- lightweight
- cutter head: High-grade special tool steel; oil-hardened
- handles: aluminium, high-strength, drop forged

95 77 600
- insulated and tested according to IEC 60900 and ASTM F1505

Product Number	↔ inch		Head	Handles	Cutting capacities inch	Ø inch	Ø inch	AWG	Ounces
95 71 445	17 1/2		polished	with plastic grips	3 3/4	25/64	9/32	3/0	38.2
95 71 600	23 1/2		polished	with plastic grips	5 29/32	35/64	23/64	5/0	60.5
95 77 600	23 1/2	1000 V	polished	plastic dipped insulated	5 29/32	35/64	23/64	5/0	83.2

Product Number	↔ mm		Head	Handles	mm²	Ø mm	Ø mm	AWG	Ounces
95 71 445	445		polished	with plastic grips	95	10.0	7.0	3/0	38.2
95 71 600	600		polished	with plastic grips	150	14.0	9.0	5/0	60.5
95 77 600	600	1000 V	polished	plastic dipped insulated	150	14.0	9.0	5/0	83.2

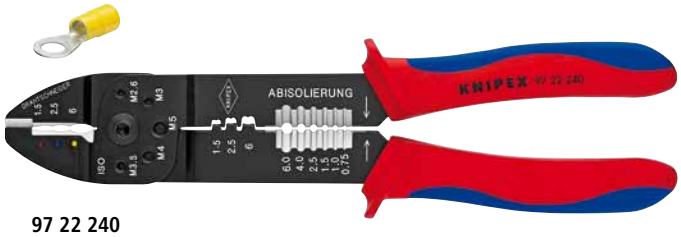
95 79 445	Spare cutter head for 95 71 445
95 79 600	Spare cutter head for 95 71 600 / 95 77 600
95 89 600	Spare cutter head for 95 81 600

97 2

Crimping Pliers

- for cutting cables, stripping wire and crimping insulated and non-insulated terminals, connectors and plug type connectors
- with threaded holes for cutting copper and brass screws threaded M 7/64, 1/8, 9/64, 5/32 and 13/64"
- Special steel; high-strength

97 21 215



97 22 240

Product Number	↔ inch	↔ mm	Pliers	Handles			Applications	Capacity mm²	AWG	Number of crimping positions	Ounces
97 21 215	8 1/2	215	burnished	with plastic grips			insulated terminals and plug connectors	0.75 - 6.00	10 - 18	3	7.9
97 22 240	9 1/4	240	black lacquered	with multi-component grips			insulated terminals and plug connectors	0.75 - 6.00	10 - 18	3	10.6
							non-insulated open plug-type connectors (plug width 6,3 mm)	0.50 - 6.00	10 - 20	3	

97 32

Crimping Pliers

- for cutting cables, stripping wire and crimping insulated and non-insulated terminals and connectors
- with threaded holes for cutting copper and brass screws threaded M 7/64, 1/8, 9/64, 5/32 and 13/64"
- Special steel; high-strength

97 32 225

Product Number	↔ inch	↔ mm		Pliers	Handles			Applications	Capacity mm²	AWG	Number of crimping positions	Ounces
97 32 225	9	225		burnished	with plastic grips			insulated terminals and plug connectors	0.5 - 6.0	10 - 20	3	8.5
								non-insulated terminals and plug connectors	0.5 - 2.5	13 - 20	3	

97
43

Crimp System Pliers

PATENTED

for exchangeable crimping dies

97 43 200

97 43 200 A

With the possibility of crimping almost all currently available crimping connections with just one tool and state-of-the-art crimping pliers technology, the Crimp System Pliers solves almost all tasks in mobile and stationary crimping technology and is an excellent tool for professionals to use for standard crimping.

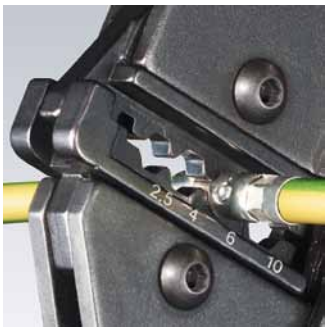
- just one tool for almost 1,000 crimping applications
- almost parallel crimping movement
- repetitive, high crimping quality due to precision dies and integral lock (self-releasing mechanism)
- crimping pressure has been set precisely (calibrated) in the factory
- optimum transmission of force due to lever action for fatigue-reduced operation
- ergonomically designed handles
- different locators for precise positioning of the connectors
- crimp dies for applications not covered in the range offered are available upon request.
- Chrome vanadium electric steel in special quality; oil-hardened

97 43 200
in a plastic case; foam insert with recesses for crimping dies and locators; with service tool (Allen key), screws and nuts; without crimping dies

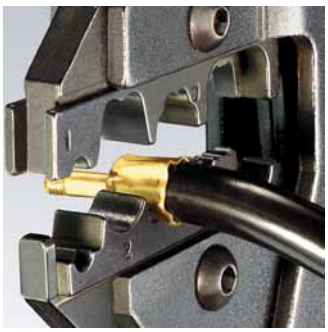
97 43 200 A
pliers without crimping dies, without case

97 43 05
with attached crimping dies for non-insulated open plug-type connectors (3/16 and 1/4" connector width)

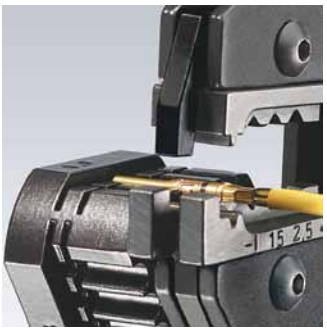
97 43 06
with attached crimping dies for insulated terminals and plug connectors



Crimp System Pliers 97 43 200 with crimping dies 94 49 30 for non-insulated butt connectors



Crimp System Pliers 97 43 200 with crimping dies 97 49 35 for spark plug connectors



97 43 200 with crimping dies 97 49 61 and locator 97 49 90 for turned types of connectors with varying pin diameters, revolvable

97 43 400 Crimp System Pliers with crimping dies 97 49 24 and locator 97 49 93 for D-Sub plugs

Product Number	↔ inch	↔ mm				Pliers	Handles	Applications	Capacity mm²	AWG	Number of crimping positions	⚖ Ounces
97 43 200	8	200				burnished	with multi-component grips	see crimping dies profile table				34.9
97 43 200 A	8	200				burnished	with multi-component grips	see crimping dies profile table				20.2
97 43 05	8	200				burnished	with multi-component grips	Crimp System Pliers for non-insulated open plug-type connectors (3/16 and 1/4 in connector width)	0.5 - 6.0	10 - 20	3	21.8
97 43 06	8	200				burnished	with multi-component grips	Crimp System Pliers for insulated terminals and plug connectors	0.5 - 6.0	10 - 20	3	21.5

Crimping Dies for Crimp System Pliers

Product Number			Applications	Capacity mm²	AWG	Capacity SW inch	Capacity SW mm	Sleeves Ø inch	Sleeves Ø mm	Number of crimping positions	Ounces
97 49 04			non-insulated Spade Plug Connectors	0.1 - 2.5	13 - 27					4	1.5
97 49 05			non-insulated Spade Plug Connectors	0.5 - 6.0	10 - 20					3	1.6
97 49 06			insulated terminals and plug connectors	0.5 - 6.0	10 - 20					3	1.6
97 49 08			End Sleeves (ferrules)	0.25 - 6.0	10 - 23					5	1.7
97 49 09			End Sleeves (ferrules)	10 / 16 / 25	3 / 5 / 7					3	1.8
97 49 13			non-insulated terminals and plug connectors	0.5 - 10.0	7 - 20					4	1.3
97 49 15			Spade Plug connectors and non-insulated open plug type connectors (plug width 6,3 mm)	1.25-2.5 + 3.0-6.0	13 - 17 9 - 12					2 + 1	2.0
97 49 16			insulated terminals and plug connectors	10.0 - 16.0	5 / 7					2	1.6
97 49 18			Twin end sleeves (ferrules) for two flexible conductors	2x6 10 / 16	5 / 7 / 10					3	1.7
97 49 19			End Sleeves (ferrules)	35 - 50	0 / 2					2	1.6
97 49 20			F-connectors for TV and satellite conncetions			9/32 21/64 21/64	7.0 8.4 8.1	19/64 3/8 3/8	7.7 9.5 9.5	3	1.8
97 49 23			non-insulated terminals and plug connectors	16 + 25	3 + 5					2	1.6
97 49 24			D Sub; HD 20; HDE plug	0.03 - 0.56	20 - 32					3	1.4
97 49 30			non-insulated butt connectors	1.5 - 4.0 6.0 + 10.0*	11 - 15 7 + 10					3 2	1.3
97 49 35			Spark plug connectors and distributors	1	17					5	1.8
97 49 40			Coax connectors RG 58, 59, 62, 71, 223			7/32 1/4 5/64	5.4 6.48 1.72	1/4 19/64 5/64	6.4 7.6 2.1	3	2.0
97 49 44			rolled contacts	0.14 - 1.5	15 - 26					3	1.6
97 49 50			Coax connectors / Car phone RG 58, 174, 188, 316			1/8; 11/64; 7/32; 5/64; 3/64	3.25; 4.52; 5.41; 1.72; 1.07	5/32; 7/32; 1/4; 5/64; 3/64; 3/64	3.9, 5.4; 6.4; 2.1; 1.3; 0.95	6	1.7
97 49 54			modular plugs	0.5 - 2.5	13 - 20					4	1.7
97 49 59			Solar cable connector Helios H4 (Amphenol)	2.5 + 4.0 + 6.0 mm²	10 - 13					3	1.2
97 49 60			turned contacts (HTS + Harting)	0.14 - 4.0	11 - 26					4	1.9
97 49 62			Solar connectors (Huber + Suhner)	2.5 + 4.0	11 + 13					3	1.4
97 49 64			ABS connectors	1.0 - 6.0	10 - 17					2	2.6

97
49

Product Number			Applications	Capacity mm²	AWG	Capacity SW inch	Capacity SW mm	Sleeves Ø inch	Sleeves Ø mm	Number of crimping positions	Ounces
97 49 66 4			MC4 (Multi-Contact) solar connectors cutting – stripping – crimping	4.0	11					1	1.2
97 49 66 6			MC4 (Multi-Contact) solar connectors cutting – stripping – crimping	6.0	10					1	1.2
97 49 69 1			Solar connectors (Wieland)	1.5 - 2.5	13 + 15					2	1.2
97 49 69 2			Solar connectors (Wieland)	4.0 - 10.0	7 - 11					3	1.2
97 49 70			Western plugs	4, 6, 8-poles RJ 10 / 11 / 12 / 45						3	2.5
97 49 74			unshielded Molex plugs	4, 6, 8-poles RJ 10 / 11 / 12 / 45						3	1.5
97 49 76			shielded Stewart plugs							2	1.8
97 49 81			Harting connectors for fiber optics			1/8 3/16 1/4	3.0 4.95 6.5	9/64 15/64 19/64	3.5 6.0 7.5	3	1.8
97 49 82			Telegärtner connectors for fiber optics			1/8 9/64 11/64	3.25 3.65 4.52	9/64 5/32 7/32	3.6 4.0 5.4	3	2.0
97 49 83			F-SMA, ST-,SC + STSC/K-connectors for fiber optics			9/64 11/64 13/64	3.65 4.2 5.0	11/64 7/32 1/4	4.3 5.4 6.0	3	2.1
97 49 84			Harting/Suhner connectors for fiber optics			5/32 11/64 3/16	3.8 4.3 4.95	11/64 13/64 1/4	4.5 5.2 6.0	3	1.8
97 49 87			F-SMA, ST and MIC connectors for fiber optics			11/32	8.7	3/8	9.5	1	1.6

* compression joints in conformance to DIN 46267

97

Locators for crimping pliers and crimping dies

Product Number	Applications	Ounces
97 49 59 1	Locator for 97 49 59	1.9
97 49 65 1	Locator for 97 49 65 (solar connectors MC3)	2.5
97 49 66 1	Locator for 97 49 66 (solar connectors MC4)	2.5
97 49 68 1	Locator for 97 49 68 (solar connectors Solarlok)	2.5
97 49 69 11	Locator for 97 49 69 1 and 97 49 69 2	1.9
97 49 90	Locator for 97 49 60 (HTS+Harting)	2.4
97 49 93	Locator for 97 49 24 (D-Sub-plugs)	1.4
97 49 94	Locator for 97 49 04 / 97 52 04 / 97 52 34	2.4
97 49 95	Locator for 97 49 05 / 97 52 05 / 97 52 35	0.8
97 59 65 2	Locator for 97 52 65 / 97 52 65 A / 97 52 65 DG / 97 52 65 DG A	8.4

Locator 97 59 65 2 for four-mandrel crimping pliers, adjustable in length and diameter for various plugs

97

Mounting Tool for MC3 connectors

97 49 65 2

- for easy and quick assembly of MC3 solar cable connectors
- for fit solar sleeves for connectors from 2.5 to 10.0 mm²
- three capsules (2.5 / 4.0; 6.0; 10.0 mm²) for pulling on the sleeves, integrated in the detachable handle
- body: plastic, fiberglass-reinforced

The assembly tool comes with three torpedo capsules for the various cable cross-sections

SOLAR TOOL

Product Number	↔ inch	↔ mm	Capacity mm²	⚖ Ounces
97 49 65 2	12 1/2	325	2.5 - 10.0	16.2

97
51

Crimping Pliers for Western plugs

97 51 10

- professional tool for cutting and stripping unshielded ribbon telephone cables
- for crimping 6- and 8-pole Western plugs type RJ 11/12 (3/8″ width) and type RJ 45 (15/32″ width)
- exact crimping process due to parallel crimping
- repetitive, high crimping quality due to integral lock (self-releasing mechanism)
- optimum transmission of force due to lever action for fatigue-reduced operation
- with length cutter and dismantling knife for ribbon cables 1/4″ and 1/2″ length
- with additional stripping device for round cables
- Chrome vanadium electric steel in special quality; oil-hardened

Product Number	↔ inch	↔ mm				Pliers	Handles	Capacity	Number of crimping positions	⚖ Ounces
97 51 10	7 1/2	190				burnished	with multi-component grips	RJ 11/12 (6-poles) 3/8″ (9.65 mm) RJ 45 (8-poles) 15/32″ (11.68 mm)	2	12.0
97 59 06		4 spare blades for 97 51 04 / 97 51 10								

97
52

Crimping Pliers for two handed operation

- the new lever transmission reduces the handforce up to 30% compared to regular crimping pliers
- repetitive, high crimping quality due to precision dies and integral lock (self-releasing mechanism)
- crimping pressure has been set precisely (calibrated) in the factory
- two hand operation for easy crimping of large conductor diameters
- easy handling as a result of well balanced center of gravity, angled head and ergnomically shaped handles
- Chrome vanadium electric steel in special quality; oil-hardened

97 52 06

97 52 09

First step: move the handle with two fingers only until both jaws touch the connector to be crimped

Second step: now use the whole hand for further crimping procedure

Third step: when greater handforce is required, such as e.g. when crimping insulated connectors 6 mm², two handed operation is possible with the longer handles

Product Number	↔ inch	↔ mm		Pliers	Handles			Applications	Capacity mm²	AWG	Number of crimping positions	⚖ Ounces
97 52 05	10	250		burnished	with non-slip plastic grips			non-insulated, open spade plug-type connectors	0.5 - 6.0	10 - 20	3	20.0
97 52 06	10	250		burnished	with non-slip plastic grips			insulated terminals and plug connectors	0.5 - 6.0	10 - 20	3	20.0
97 52 09	10	250		burnished	with non-slip plastic grips			End Sleeves (ferrules)	10 / 16 / 25	3 / 5 / 7	3	20.1
97 52 13	10	250		burnished	with non-slip plastic grips			non-insulated terminals and plug connectors	0.5 - 10.0	7 - 20	4	19.7
97 52 19	10	250		burnished	with non-slip plastic grips			End Sleeves (ferrules)	35 - 50	0 + 2	2	20.0
97 52 23	10	250		burnished	with non-slip plastic grips			non-insulated terminals and plug connectors	16 + 25	3 + 5	2	20.0

97 49 94		Locator for 97 49 04 / 97 52 04 / 97 52 34
97 49 95		Locator for 97 49 05 / 97 52 05 / 97 52 35

97 51

Crimping Pliers for Western plugs

97 51 12

- professional tool for cutting and stripping unshielded ribbon telephone cables
- for crimping 4-, 6- and 8-pole Western plugs type RJ 10 (19/64" width), type RJ 11/12 (3/8" width) and type RJ 45 (15/32" width)
- exact crimping process due to parallel crimping
- repetitive, high crimping quality due to integral lock (self-releasing mechanism)
- optimum transmission of force due to lever action for fatigue-reduced operation
- with length cutter and dismantling knife for ribbon cables 1/4" and 1/2" length
- with additional stripping device for round cables
- Chrome vanadium electric steel in special quality; oil-hardened

Product Number	↔ inch	↔ mm				Pliers	Handles	Capacity	Number of crimping positions	⚖ Ounces
97 51 12	8	200				burnished	with multi-component grips	RJ 10 (4-poles) 19/64" (7.65 mm) RJ 11/12 (6-poles) 3/8" (9.65 mm) RJ 45 (8-poles) 15/32" (11.68 mm)	3	18.4

97 59 12		Spare blades for 97 51 12

97 52

Crimping Pliers short design

97 52 14

- repetitive, high crimping quality due to precision dies and integral lock (self-releasing mechanism)
- crimping pressure has been set precisely (calibrated) in the factory
- optimum transmission of force due to lever action for fatigue-reduced operation
- good handling due to 20° angled head, low weight and short design
- Chrome vanadium electric steel in special quality; oil-hardened

97 52 14
Available as accessory: locator for non-insulated open plug type connectors

Product Number	↔ inch	↔ mm		Pliers	Handles			Applications	Capacity mm²	AWG	Number of crimping positions	⚖ Ounces
97 52 14	8	195		burnished	with multi-component grips			non-insulated open spade plug type connectors (plug width 7/64" + 3/16" / 2.8 + 4.8 mm)	0.10 - 1.5	16 - 27	4	13.7
97 52 20	8	195		burnished	with multi-component grips			COAX-, BNC- and TNC-connectors RG 58 / 59 / 62 / 71 / 223			3	13.4

97 59 14	Locator for 97 52 14

97
52

KNIPEX PreciForce® Crimping Pliers

97 52 34

97 52 36

For daily crimping applications, the specialist likes crimping pliers that work precisely and reliably.
In addition, they should be light, comfortable to use, robust and reasonably priced – Meet the PreciForce®

- repetitive, high crimping quality due to precision dies and integral lock (self-releasing mechanism)
- crimping pressure has been set precisely (calibrated) in the factory
- high transmission of force thanks to lever action for fatigue-reduced work
- good handling thanks to handle position, low weight, short design and ergonomically shaped handles
- Chrome vanadium electric steel in special quality; oil-hardened

97 52 36

97 52 37

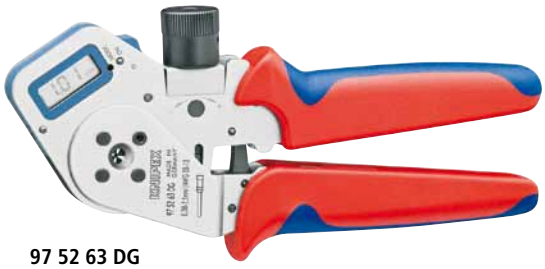
Product Number	↔ inch	↔ mm		Pliers	Handles			Applications	Capacity mm²	AWG	Number of crimping positions	⚖ Ounces
97 52 30	8 3/4	220		burnished	with multi-component grips			non-insulated butt connectors	1.5 - 4,0 6.0 + 10.0*	11 - 15 7 + 10	3 2	16.8
97 52 33	8 3/4	220		burnished	with multi-component grips			non-insulated terminals and plug connectors	0.5 - 10.0	7 - 20	4	16.9
97 52 34	8 3/4	220		burnished	with multi-component grips			non-insulated open spade plug type connectors (plug width 2.8 + 4.8 mm)	0.1 - 2.5	13 - 27	4	17.0
97 52 35	8 3/4	220		burnished	with multi-component grips			non-insulated open spade plug type connectors (plug width 4.8 + 6.3 mm)	0.5 - 6.0	10 - 20	3	17.4
97 52 36	8 3/4	220		burnished	with multi-component grips			insulated terminals and plug connectors	0.5 - 6.0	10 - 20	3	17.2
97 52 37	8 3/4	220		burnished	with multi-component grips			heat shrinkable sleeve connectors	0.5 - 6.0	10 - 20	3	16.9
97 52 50	8 3/4	220		burnished	with multi-component grips			COAX-, BNC- and TNC-connectors for RG 58 / 174 / 188 / 316			6	17.6

97 49 94		Locator for 97 49 04 / 97 52 04 / 97 52 34
97 49 95		Locator for 97 49 05 / 97 52 05 / 97 52 35

* compression joints in conformance to DIN 46267

97
52

Four-Mandrel Crimping Pliers for turned contacts



97 52 63 DG

PATENTED

97 52 65

PATENTED

97 52 65 DG

PATENTED

97 59 65 2

Standard locator

Turned contacts are used for demanding plug type connections, e.g. in the medical industry and aviation. Extremely reliable crimping connections can be achieved only with pliers that work with absolute precision and maintain the required crimping depth in the 1/100 mm range. KNIPEX has all of the tools you need to get these jobs done.

- for crimping turned contacts
- four-mandrel crimping for top-quality crimping connections
- mandrel gauge to check the basic setting
- repetitive, high crimping quality due to integral lock (self-releasing mechanism)
- optimum transmission of force due to lever action for fatigue-reduced operation
- high operation comfort thanks to ergonomic shape
- Chrome vanadium electric steel in special quality; oil-hardened

97 52 63 DG
fine adjustment of pressure depending on the conductor's diameter by means of adjusting wheel; with digital display of the preset crimping capacities; display reversible between mm / inch and MIL numerical values; packaged in a plastic case with foam insert and locator for holding the contacts

97 52 65
fine adjustment of pressure depending on the conductor's diameter by means of adjusting wheel; locator for positioning the contacts; with table for calculating the settings; packaged in a plastic case with foam insert

97 52 65 DG
fine adjustment of pressure depending on the conductor's diameter by means of adjusting wheel; with digital display of the preset crimping capacities; display reversible between mm / inch and MIL numerical values; with table for calculating the settings; packaged in a plastic case with foam insert and locator for holding the contacts

97 59 65 2
Universal Locator for 97 52 65 / 97 52 65 A / 97 52 65 DG / 97 52 65 DG A; Chrome vanadium electric steel in special quality, oil-hardened
- locator that is universally adjustable (in length and diameter) for the repeatable exact alignment of turned contacts in crimping pliers; can be set to all commercially available contacts in the four-mandrel crimping pliers' capacity range

Product Number	↔ inch	↔ mm		Pliers	Handles			Applications	Capacity mm²	AWG	Number of crimping positions	Ounces
97 52 63 DG	8	195		nickel plated	with multi-component grips	☒		turned contacts	0.08 - 2.5	13 - 28	1	13.7
97 52 65	9	230		nickel plated	with multi-component grips	☒		turned contacts (Harting; Ilme; Phoenix; Amphenol; Walther; HTS; Contact; Weidmüller)	0.14 - 6.0	10 - 25	1	23.8
97 52 65 DG	10	250		nickel plated	with multi-component grips	☒		turned contacts (Harting; Ilme; Phoenix; Amphenol; Walther; HTS; Contact; Weidmüller)	0.14 - 6.0	10 - 25	1	22.3
97 59 65 2		Universal Locator for 97 52 65 / 97 52 65 A / 97 52 65 DG / 97 52 65 DG A										

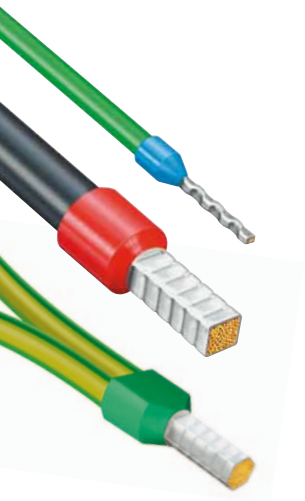
97
53

Self-Adjusting Crimping Pliers for end sleeves (ferrules) with lateral access

PATENTED

97 53 04

97 53 14

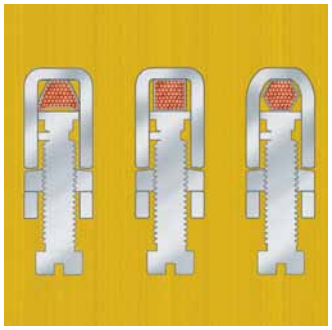


Small crimping pliers for wire-end ferrules with two great advantages for the user:
- Automatic self-adjustment to the wire end ferrule used. This allows the specialist to work with less strain and enables secure, reliable and quick crimping.
- Extensive range of applications: square crimping 0.08 to 10.0 mm²; hexagon crimping 0.08 to 6.0 mm²

- for crimping end sleeves (ferrules) according to DIN 46228 parts 1 + 4
- self-adjusting adaptation to the desired wire end ferrule size: no crimping faults caused by using the wrong die
- lateral loading of the end sleeves (ferrules) into the tool
- repetitive, high crimping quality due to integral lock (self-releasing mechanism)
- these tools have been set precisely (calibrated) in the factory
- optimum transmission of force due to lever action for fatigue-reduced operation
- high operation comfort thanks to shape and low weight
- Chrome vanadium electric steel in special quality; oil-hardened

97 53 04
square crimping for optimum contact areas in the clamp connection

97 53 14
heaxagonal crimping for optimum positioning in confined areas



The square crimping allows for better contact. The hexagonal crimping comes very close to the space-saving round shape. Compared to the square crimp, it has the same cross-section and can produce optimum contact in narrow, round terminal connectors. Both crimping shapes allow the user to easily feed into the terminal connection.

Square-crimped wire end ferrules always ensure good contact surfaces in the clamped connection

Product Number	↔ inch	↔ mm		Pliers	Handles			Applications	Capacity mm²	AWG	Number of crimping positions	⚖ Ounces
97 53 04	7 1/4	180		burnished	with multi-component grips			End Sleeves (ferrules)	0.08 - 10.0	7 - 28	1	14.3
97 53 14	7 1/4	180		burnished	with multi-component grips			End Sleeves (ferrules)	0.08 - 6.0	10 - 28	1	14.3

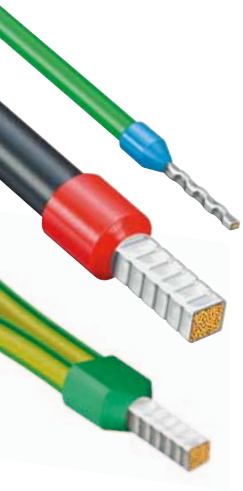
97
53

Self-Adjusting Crimping Pliers for end sleeves (ferrules) with front loading

PATENTED

97 53 08

97 53 09



The crimping pliers for wire end ferrules with three great advantages for the user:
- Automatic self-adjustment to the wire end ferrule used. This allows the specialist to work with less strain and enables secure, reliable and quick crimping.
- Range of applications also for large cross-sections: crimping 7 - 28 + 5 AWG
- Front loading: very helpful under difficult working conditions in confined spaces

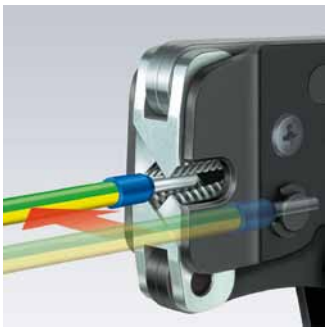
- for crimping wire end ferrules
- self-adjusting adaptation to the desired wire end ferrule size: no crimping faults caused by using the wrong die
- front loading of the wire end ferrules into the tool
- repetitive, high crimping quality due to integral lock (self-releasing mechanism)
- crimping pressure has been set precisely (calibrated) in the factory, readjustable
- optimum transmission of force due to toggle lever action for fatigue-reduced operation
- high operation comfort thanks to ergonomic shape and low weight
- Chrome vanadium electric steel in special quality; oil-hardened

97 53 08
Crimping from 7 to 28 AWG (0.08 - 10.0 mm²) in one profile; wire end ferrules up to 13 AWG (2.5 mm²) can also be loaded parallel from the side

97 53 09
Crimping from 7 to 28 and 5 AWG (0.08 - 10.0 mm² and 16.0 mm²) in one profile; with selector lever for setting the crimping area either to 7 to 28 or 5 AWG (0.08 - 10.0 mm² or 16.0 mm²)

Square crimping

Front loading of wire end ferrules e.g. in switchboards



97 53 08: Lateral loading of wire end ferrules up to 13 AWG (2.5 mm²) parallel from the side e.g. in confined areas

Product Number	↔ inch	↔ mm		Pliers	Handles			Applications	Capacity mm²	AWG	Number of crimping positions	⚖ Ounces
97 53 08	**7 1/2**	190		burnished	with multi-component grips			End Sleeves (ferrules)	0.08 - 10	7 - 28	1	16.8
97 53 09	**7 1/2**	190		burnished	with multi-component grips			End Sleeves (ferrules)	0.08 - 10 + 16	7 - 28 + 5	1	17.1

97 6

Crimping Pliers for end sleeves (ferrules)

97 62 145 A

97 68 145 A
1000 V

- for crimping wire end ferrules in an area of application from 13 - 23 AWG (0.25 up to 2.5 mm²)
- crimping in marked trapezoidal dies for tight connections between the sleeve and the conductor
- Vanadium electric steel; forged, oil-hardened

Product Number	↔ inch	↔ mm		Head	Handles			Capacity mm²	AWG	Number of crimping positions	Ounces
97 61 145 A	5 3/4	145		polished	plastic coated	■		0.25 - 2.5	13 - 23	6	4.9
97 62 145 A	5 3/4	145		polished	with multi-component grips	■		0.25 - 2.5	13 - 23	6	6.0
97 68 145 A	5 3/4	145	1000 V	polished	insulated with multi-component grips, VDE-tested	■		0.25 - 2.5	13 - 23	6	6.2

97 7

Crimping Pliers for end sleeves (ferrules)

97 71 180

97 72 180

- for crimping wire end ferrules from 5 to 23 AWG (0.25 up to 16 mm²)
- crimping in marked, half-round dies for tight connections between the sleeve and the conductor
- 9 extremely deep troughs with cone-shaped side faces
- Special tool steel; forged, oil-hardened

Product Number	↔ inch	↔ mm	Head	Handles			Applications	Capacity mm²	AWG	Number of crimping positions	Ounces
97 71 180	7 1/4	180	polished	plastic coated	■		End Sleeves (ferrules)	0.25 - 16	5 - 23	9	8.5
97 72 180	7 1/4	180	polished	with multi-component grips	■		End Sleeves (ferrules)	0.25 - 16	5 - 23	9	10.0

97
91

Tool Set for Photovoltaics

97 91 01

- with tools for photovoltaics
- without crimp dies – for individual equipment – please order separately (see ref. 97 49 ..)
- with service tools (Allen key) for changing crimp dies
- shock-resistant plastic case
- foam insert with recesses for tools, crimp dies and locators
- external dimensions (W x H x D): 13 37/64 x 3 5/32 x 11“ external dimensions (W x H x D): 345 x 80 x 280 mm

Product Number	EAN 4003773-				Units	Ounces
97 91 01	070351	Tool Case for Photovoltaics				69.3
		12 12 11	Precision Insulation Stripper with shaped blades		1	
		95 16 165	Cable Shears	1000 V	1	
		97 43 200	Crimp System Pliers		1	
not included (please order separately):						
97 49 62	063179	Crimping dies for solar cable connectors (Huber + Suhner)				
97 49 63	066675	Crimping dies for solar cable connectors (Huber + Suhner)				
97 49 65	066682	Crimping dies for solar cable connectors MC3 (Multi-Contact)				
97 49 65 1	066729	Locator for 97 49 65 (solar cable connectors MC3)				
97 49 65 2	072010	Mounting Tool for MC3 connectors				
97 49 66	066699	Crimping dies for solar cable connectors MC4 (Multi-Contact)				
97 49 66 1	066736	Locator for 97 49 66 (solar cable connectors MC4)				
97 49 66 4	072096	Crimping dies for solar cable connectors MC4 (Multi-Contact) cutting - stripping - crimping				
97 49 66 6	072102	Crimping dies for solar cable connectors MC4 (Multi-Contact) cutting - stripping - crimping				
97 49 67	066705	Crimping dies for solar cable connectors SunCon (Hirschmann)				
97 49 68	066712	Crimping dies for solar cable connectors Solarlok (Tyco)				
97 49 68 1	066743	Locator for 97 49 68 solar cable connectors (Solarlok)				
97 49 69 1	072119	Crimping dies for solar cable connectors gesis® PST 40 (Wieland)				
97 49 69 2	072126	Crimping dies for solar cable connectors gesis® PST 40 (Wieland)				
97 49 69 11	072133	Locator for 97 49 69 1 and 97 49 69 2				
97 49 59	073734	Crimping dies for solar cable connectors Helios H4 (Amphenol)				

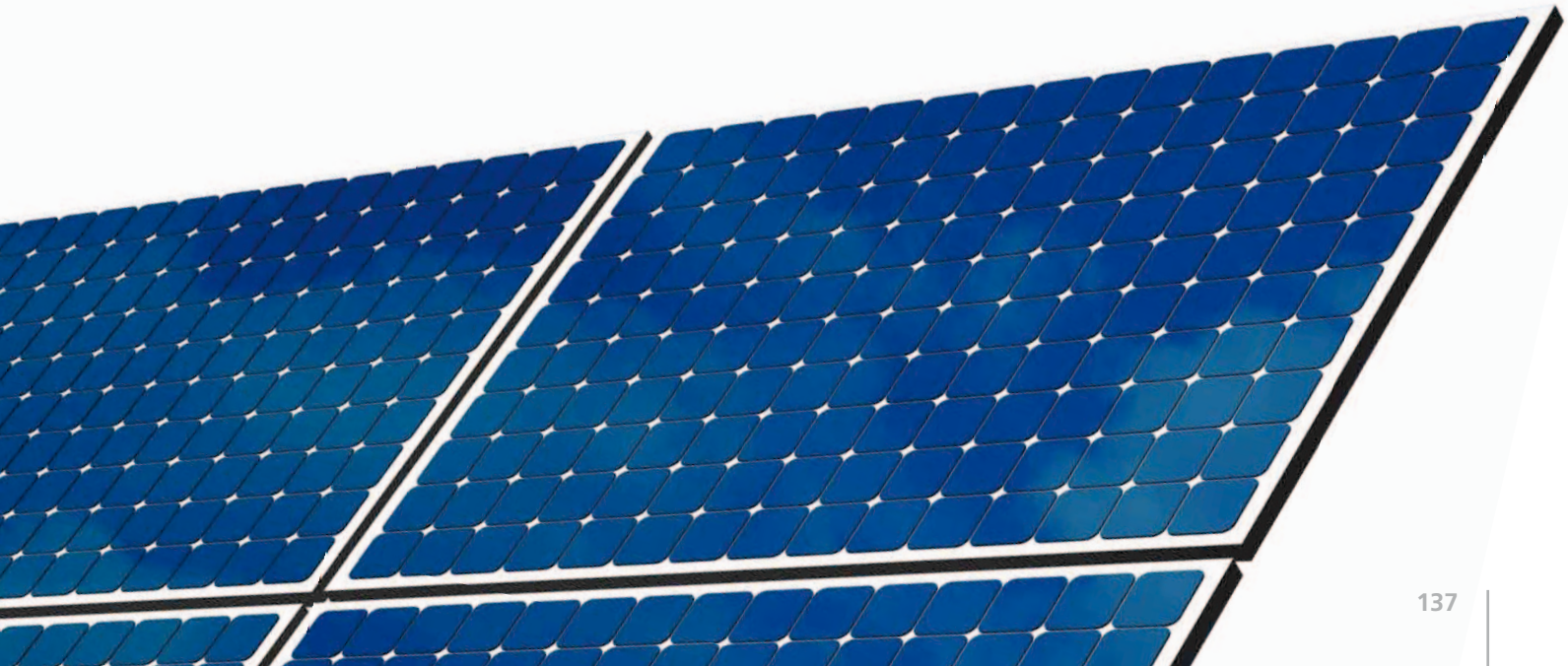
97
91

Tool Case for Photovoltaics, MC3 (Multi-Contact)

- the complete tool set to install MC3 connectors
- with service tools (Allen key) for changing crimp dies
- shock-resistant plastic case
- foam insert with recesses for the tools, crimping dies and locators
- with four empty plastic boxes for consumables for individual equipping
- dimensions, exterior (W x H x D): 14 11/64 x 4 1/8 x 11 13/16″
  dimensions, exterior (W x H x D): 360 x 105 x 300 mm

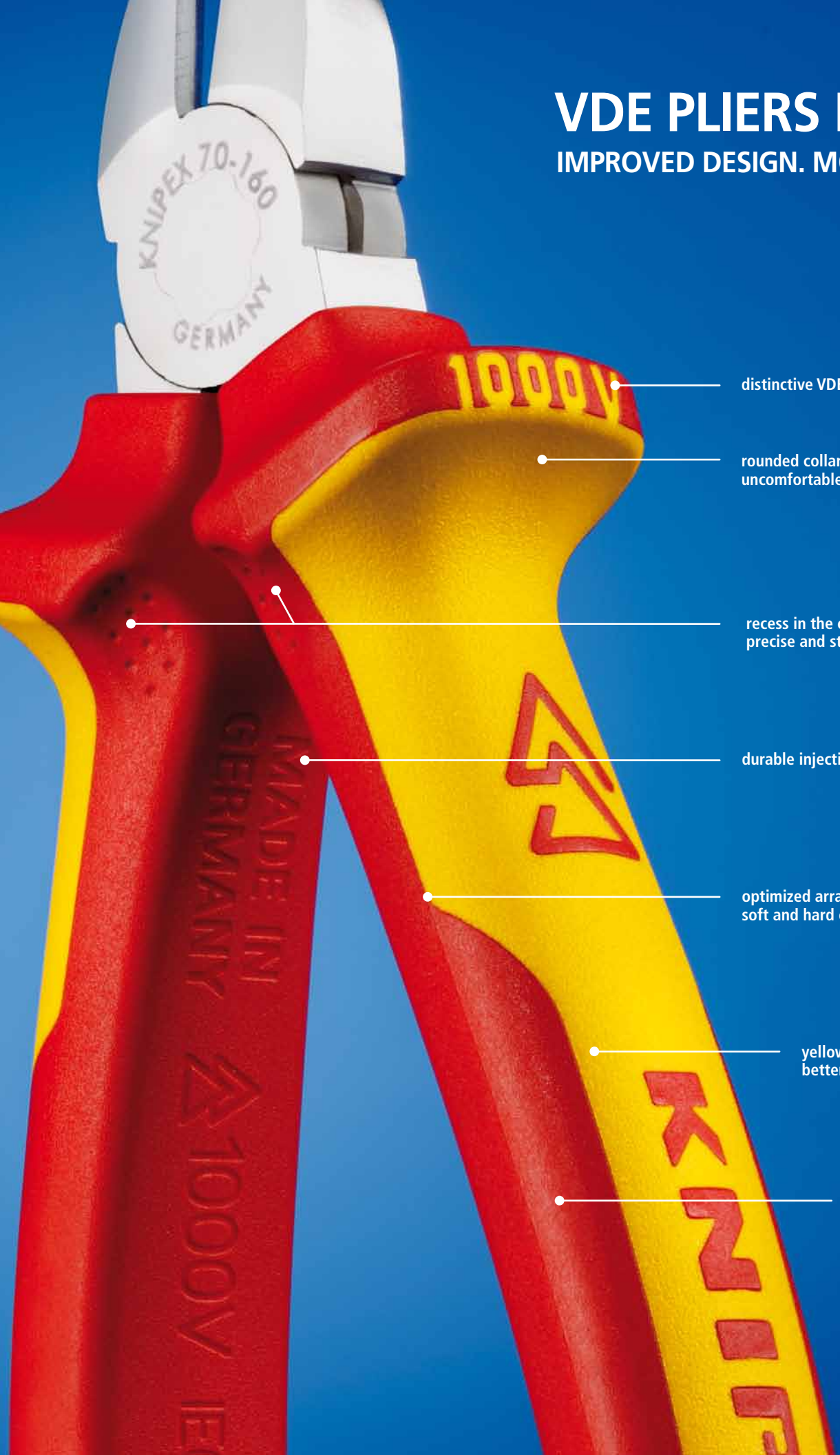
97 91 02

Product Number	EAN 4003773-				Quantity	Ounces
97 91 02	074083	Tool Case for Photovoltaics, MC3 (Multi-Contact)				75.0
		12 12 11	Precision Wire Stripper		1	
		95 16 165	Cable Shears	1000 V	1	
		97 43 200	Crimp System Pliers		1	
		97 49 65	Crimping dies for solar cable connectors MC3 (Multi-Contact)		1	
		97 49 65 1	Locator for 97 49 65 (solar connectors MC3)		1	
		97 49 65 2	Mounting Tool for MC3 connectors		1	
97 91 02 LE	074090	Tool Case for Photovoltaics, MC3 (Multi-Contact) empty				



Product Number		Designation	Width x Thickness mm²	Plug Ø inch	Plug Ø mm	Screws Ø inch	Screws Ø mm	Cable mm²	AWG	Color	Quantity
97 99 01		Female Spade Sockets	6.3 x 0.8					0.5 - 1.0	17 - 20	red	75
97 99 02		Female Spade Sockets	6.3 x 0.8					1.5 - 2.5	13 - 15	blue	50
97 99 03		Female Spade Sockets	6.3 x 0.8					4.0 - 6.0	10 - 11	yellow	25
97 99 04		Female Spade Sockets	8.0 x 0.8					1.5 - 2.5	13 - 15	blue	50
97 99 05		Male Spade Connectors	6.3 x 0.8					0.5 - 1.0	17 - 20	red	75
97 99 06		Male Spade Connectors	6.3 x 0.8					1.5 - 2.5	13 - 15	blue	75
97 99 07		Round Sockets						0.5 - 1.0	17 - 20	red	25
97 99 08		Round Sockets						1.5 - 2.5	15 - 13	blue	25
97 99 09		Round Pin Plugs						0.5 - 1.0	17 - 20	red	75
97 99 10		Round Pin Plugs						1.5 - 2.5	13 - 15	blue	50
97 99 11		Insulated Double Spade Connector	6.3 x 0.8					0.5 - 1.0	17 - 20	red	25
97 99 12		Insulated Double Spade Connector	6.3 x 0.8					1.5 - 2.5	13 - 15	blue	25
97 99 13		Cable Connectors, eye type				7/64	3.0	0.5 - 1.0	17 - 20	red	100
97 99 14		Cable Connectors, eye type				5/32	4.0	0.5 - 1.0	17 - 20	red	100
97 99 15		Cable Connectors, eye type				13/64	5.0	0.5 - 1.0	17 - 20	red	100
97 99 16		Cable Connectors, eye type				5/32	4.0	1.5 - 2.5	13 - 15	blue	100
97 99 17		Cable Connectors, eye type				13/64	5.0	1.5 - 2.5	13 - 15	blue	50
97 99 18		Cable Connectors, eye type				15/64	6.0	1.5 - 2.5	13 - 15	blue	50
97 99 19		Cable Connectors, eye type				5/16	8.0	1.5 - 2.5	13 - 15	blue	50
97 99 20		Cable Connectors, eye type				13/64	5.0	4.0 - 6.0	10 - 11	yellow	25
97 99 21		Cable Connectors, eye type				15/64	6.0	4.0 - 6.0	10 - 11	yellow	25
97 99 22		Cable Connectors, eye type				5/16	8.0	4.0 - 6.0	10 - 11	yellow	25
97 99 23		Cable Connectors, eye type				25/64	10.0	4.0 - 6.0	10 - 11	yellow	25
97 99 24		Spade Connectors, forked				5/32	4.0	0.5 - 1.0	17 - 20	red	100
97 99 25		Spade Connectors, forked				5/32	4.0	0.5 - 1.0	17 - 20	red	100
97 99 26		Spade Connectors, forked				13/64	5.0	0.5 - 1.0	17 - 20	red	75
97 99 27		Spade Connectors, forked				5/32	4.0	1.5 - 2.5	13 - 15	blue	75
97 99 28		Spade Connectors, forked				13/64	5.0	1.5 - 2.5	13 - 15	blue	50
97 99 29		Spade Connectors, forked				13/64	5.0	4.0 - 6.0	10 - 11	yellow	25
97 99 30		Spade Connectors, forked				15/64	6.0	4.0 - 6.0	10 - 11	yellow	25
97 99 31		Pin Connectors						0.5 - 1.0	17 - 20	red	100
97 99 32		Pin Connectors						1.5 - 2.5	13 - 15	blue	100
97 99 33		Pin Connectors						4.0 - 6.0	10 - 11	yellow	25
97 99 34		Insulated Butt Connectors						0.5 - 1.0	17 - 20	red	50
97 99 35		Insulated Butt Connectors						1.5 - 2.5	13 - 15	blue	50
97 99 36		Insulated Butt Connectors						4.0 - 6.0	10 - 11	yellow	25
97 99 37		Two-Way-Sockets	6.3 - 0.8								25
97 99 38		Double spade connector	6.3 - 0.8								50
97 99 40		Wire End Ferrules						0.5	20		200
97 99 41		Wire End Ferrules						0.75	18		200
97 99 42		Wire End Ferrules						1.0	17		200
97 99 43		Wire End Ferrules						1.5	15		200
97 99 44		Wire End Ferrules						2.5	13		200
97 99 45		Wire End Ferrules						4.0	11		150
97 99 46		Wire End Ferrules						6.0	10		150
97 99 47		Wire End Ferrules						10.0	7		50
97 99 48		Wire End Ferrules						16.0	5		50
97 99 49		Wire End Ferrules						25.0	3		50
97 99 70		Wire End Ferrules with collar						0.5	20	white	200
97 99 71		Wire End Ferrules with collar						0.75	18	grey	200
97 99 72		Wire End Ferrules with collar						1.0	17	red	200
97 99 73		Wire End Ferrules with collar						1.5	15	black	200
97 99 74		Wire End Ferrules with collar						2.5	13	blue	200
97 99 75		Wire End Ferrules with collar						4.0	11	grey	150
97 99 76		Wire End Ferrules with collar						6.0	10	yellow	150
97 99 77		Wire End Ferrules with collar						10.0	7	red	50
97 99 78		Wire End Ferrules with collar						16.0	5	blue	50
97 99 79		Wire End Ferrules with collar						25.0	3	yellow	50
97 99 92		Non-insulated Female Spade Connectors						2.8 - 1.5	15		150
97 99 93		Non-insulated Female Spade Connectors						4.8 - 1.5	15		150
97 99 95		Non-insulated Female Spade Connectors						6.3 - 1.5	15		100
97 99 96		Non-insulated Female Spade Connectors						6.3 - 2.5	13		100

VDE PLIERS HANDLES:
IMPROVED DESIGN. MORE COMFORT.



distinctive VDE design

rounded collar edges reduce uncomfortable pressure points

recess in the collar to facilitate a precise and steady pliers guidance

durable injection-molded marking

optimized arrangement of the soft and hard components

yellow, softer material for a better grip when force is applied

red, harder material reduces friction when the grips need to move in the hand

INSULATED TOOLS

Work on electrical installations is subject to the special protection tasks of authorities and insurance companies. This resulted in the creation of diverse national and international safety standards (in the US NFPA 70 E, internationally IEC 60364). Only a qualified electrician who respects and follows these and maybe additional regulations is permitted to carry out work on electrical installations (including live working). He has to use special tools for this particular work that have been specifically made for this kind of work and have been thoroughly tested.

KNIPEX insulated tools are made of high-quality materials, which have been manufactured and tested in conformance with the regulations of national and international standards. If the prescribed method for working on electrical installations (see above) are observed, these tools offer the greatest possible protection even when it is necessary to work live up to AC 1000 V (alternating current) and DC 1500 V (direct current).

Since 1987 the IEC 60900 has specified worldwide requirements for tools for live working. For the US this standard has been adapted as ASTM F 1505. Tests on KNIPEX tools which bear the special mark **1000 V** include subjecting them to routine tests with 10,000 volts to check their dielectric strength. This gives the user a considerable buffer of additional protection even if work on electrical installations needs to be performed live.

The mark **1000 V** identifies KNIPEX insulated tools as being suitable for live working. The specified standard also shows the requirements our claim can be measured against. The manufacturer name KNIPEX on the insulation indicates that we accept responsibility for the correctness of this information. The VDE GS marks prove: The observation of these requirements is monitored not only by the KNIPEX quality assurance team but also e.g. by the independent VDE (Association of German Electricians).

Because the purchase of insulated hand tools is a matter of trust.

Type examination, manufacturing inspections and stock monitoring by the independent VDE testing center.

INSULATION BY INJECTION MOLDED SLEEVES (VERSION 6)

KNIPEX pliers with the two-color multi-component handle insulation meet the requirements of the international standard IEC 60900. This claim is confirmed by the VDE/GS mark, awarded by an prestigious independent neutral inspection body and of ASTM F 1505.

The slip guard is designed to prevent the hand from slipping unintentionally on conductive metal parts at the head of the pliers.

DIPPED INSULATION (VERSION 7)

Other hand tools such as open-ended spanners/single-ended box wrenches, socket wrenches, ratchets etc. are insulated at KNIPEX using a plastic dipping method. These also meet all requirements of the international standards IEC 60900 and ASTM F 1505. To round off this range, KNIPEX also insulates pliers in a dipping process to adapt these tools concerning appearance and production method to the other dipped insulated tools. These pliers also bear the VDE/GS mark.

The firmly bonded extra thick dipped insulation is made of insulating material which is free of harmful substances.

Two layer insulation at the ends of the handles. This prevents cracks caused by an impact.

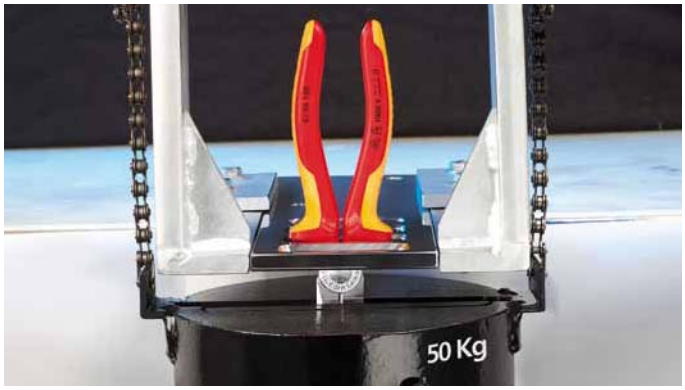
Always comply with the currently valid regulations and observe the SAFETY INSTRUCTIONS given below:

- Insulated tools must be transported and stored in a manner that will prevent any damage to the insulation.
- Check before every use whether the insulation is damaged in any way, defective tools must be discarded.
- Always keep your insulated tools clean and dry.
- Wear protective goggles when working with cutting nippers or working overhead.
- Always wear goggles or a facial mask when working on, or close to live equipment.
- Make sure the workplace is clean and orderly, particularly when you are working on live installations.
- Wear protective clothing and use additional safety equipment (e.g. insulating gloves, insulating mats, protective covers) especially in confined working spaces.
- Use only a tool with suitable dimensions. That will 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.

KNIPEX INSULATED TOOLS – 100 % TESTED, ONE BY ONE

Testing dielectric strength

Each KNIPEX 1000 V insulated tool has been tested individually. This individual testing is done with a test voltage of AC 10,000 volts. This test load, which is 10 times as high as the maximum permitted voltage during work, shows probable cause to the user to trust a reliable insulation when live working.



Testing the adhesion of the insulating coating

The adhesion of the insulating coating is tested after storage of 168 hours at 158°F / 70°C. In case of pliers a tensile load of 500 N is applied. The insulating material must remain firmly bonded to the basic tool.

Testing low temperature impact strength

The tools are cooled down to -13°F / -25°C. The insulation material must retain the toughness necessary to ensure that it does not break when hit or knocked.

Testing burning behaviour

KNIPEX uses only flame-resistant and self-extinguishing plastics for insulation.

Testing electrical insulation

After submersion in water for 24 hours, the tools are tested with AC 10,000 V for 3 minutes including measuring of the leakage current. The reading of the leakage current must stay below the limits defined in the standards.

Testing indentation resistance

The insulation heated to 158°F / 70°C must prove under standardized test conditions that the warm plastic has sufficient mechanical strength to resist expected loads.

02

High Leverage Combination Pliers

ISO 5746 IEC 60900 ASTM F1505

- 35% less effort required compared to conventional combination pliers
- easier work due to high leverage design
- with cutting edges (hardness approx. 63 HRC) for soft, hard, piano and ACSR wire
- long cutting edges for thicker cables
- with gripping zones for flat and round material, suitable for versatile use
- High-grade special tool steel; forged, oil-hardened

02 08 200 SBA

1000 V

02 08 225 SBA

1000 V

Product Number	↔ inch	↔ mm		Pliers	Head	Handles	Cutting capacities Ø inch	Ø inch	Ø inch	AWG	Ø mm	Ø mm	Ø mm	mm²	Ounces
02 08 200 SBA	8	200	1000 V	black atramentized	polished	insulated with multi-component grips, VDE-tested	7/64	3/32	1/2	3	2.8	2.2	13.0	25.0	12.1
02 08 225 SBA	9	225					1/8	3/32	35/64	3	3.0	2.5	14.0	25.0	14.4

03

Combination Pliers

ISO 5746 IEC 60900 ASTM F1505

- with gripping zones for flat and round material, suitable for versatile use
- with cutting edges for soft and hard wire
- long cutting edges for thicker cables
- cutting edge hardness approx. 60 HRC
- Special tool steel; forged, oil-hardened

03 08 160 SBA

1000 V

03 08 180 SBA

1000 V

03 08 200 SBA

1000 V

Product Number	↔ inch	↔ mm		Pliers	Head	Handles	Cutting capacities Ø inch	Ø inch	Ø inch	AWG	Ø mm	Ø mm	Ø mm	mm²	Ounces
03 08 160 SBA	6 1/4	160	1000 V	black atramentized	polished	insulated with multi-component grips, VDE-tested	1/8	5/64	25/64	5	3.1	2.0	10.0	16.0	7.9
03 08 180 SBA	7 1/4	180					9/64	3/32	15/32	5	3.4	2.2	12.0	16.0	9.0
03 08 200 SBA	8	200					5/32	3/32	33/64	5	3.8	2.5	13.0	16.0	11.4

09

Lineman's Pliers New England Style

ISO 5746 ASME B107.20 IEC 60900 ASTM F1505

09 08 240

1000 V

- heavy duty
- high transmission ratio for easy cutting
- high leverage design requires 40% less effort compared to conventional combination pliers
- effective cross-hatched knurled gripping zone in the jaws - for strong gripping and pulling
- additional serrated gripping zone below the articulated joint for powerful leverage
- with cutting edges for soft, hard and ACSR wire
- cutting edge hardness approx. 64 HRC
- Vanadium electric steel; forged, oil-hardened

Product Number	↔ inch	↔ mm		Pliers	Head	Handles	Cutting capacities Ø inch	Ø inch	Ø mm	Ø mm	Ounces
09 08 240	9 1/2	240	1000 V	black atramentized	polished	insulated with multi-component grips, VDE-tested	3/16	1/8	4.6	3.0	16.6

11

Insulation Strippers

IEC 60900 ASTM F1505

11 08 160 SBA

1000 V

- for single, multiple and fine stranded conductors with plastic or rubber insulation of a maximum 13/64" diameter. Also suitable for 7 AWG wire.
- easy adjustment to the required diameter of solid or stranded wire with knurled screw and lock nut
- Special tool steel; forged, oil-hardened

Product Number	↔ inch	↔ mm		Pliers	Head	Handles	Stripping capacities Ø inch	Ø mm	mm²	AWG	Ounces
11 08 160 SBA	6 1/4	160	1000 V	black atramentized	polished	insulated with multi-component grips, VDE-tested	13/64	5.0	10.0	7	5.9

13

Installation Pliers

ASTM F1505

13 88 8

1000 V

- multifunctional pliers for the electrical installation; for cutting cable, stripping and crimping end sleeves (ferrules), to grip flat and round material, for bending, deburring,
- 6 functions in one pair of pliers
- smooth surfaces near the tips grip single conductors without damaging them; serrated gripping surfaces and pipe grip for gripping flat and round material
- clear-cut outside edge on the jaw for working on flush-mounted junction boxes and deburring feed-through holes
- stripping holes for 12 + 14 AWG
- crimp die for end sleeves (ferrules) 12 - 20 AWG
- cable shears with (induction-hardened) precision cutting edges for copper and aluminium cables up to 19/32" dia.
- slim dimensions for easy access
- bolted joint: precise, zero backlash operation of pliers
- High-grade special tool steel; forged, oil-hardened

Product Number	↔ inch	↔ mm		Pliers	Head	Handles	Stripping capacity for cross-sections AWG	mm²	Crimping capacity AWG	mm²	Ounces
13 88 8	8	200	1000 V	black atramentized	polished	insulated with multi-component grips, VDE-tested	12 + 14	0.7 - 1.5 + 2.5	12 - 20	0.5 - 2.5	9.9

20 Flat Nose Pliers

ISO 5745 IEC 60900 ASTM F1505

- flat, short and wide jaws
- serrated gripping surfaces
- Chrome vanadium electric steel; forged, oil-hardened

20 06 160
1000 V

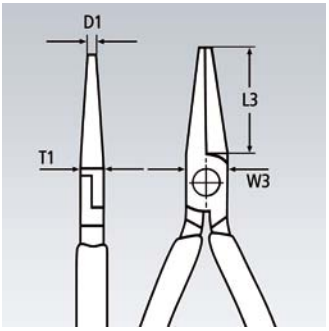
Product Number	inch	mm		Head	Handles	Dimensions L3 inch	W3 inch	T1 inch	L3 mm	W3 mm	T1 mm	Ounces
20 06 160	6 1/4	160	1000 V	chrome plated	insulated with multi-component grips, VDE-tested	1 3/16	43/64	3/8	30.0	17.0	9.5	5.1

22 Round Nose Pliers

ISO 5745 IEC 60900 ASTM F1505

- for bending wire loops
- round, short jaws; smooth ground
- Chrome vanadium electric steel; forged, oil-hardened

22 08 160 SBA
1000 V



Product Number	inch	mm		Pliers	Head	Handles	Dimensions L3 inch	W3 inch	D1 inch	T1 inch	L3 mm	W3 mm	D1 mm	T1 mm	Ounces
22 08 160 SBA	7 1/4	160	1000 V	black atramentized	polished	insulated with multi-component grips, VDE-tested	1 3/16	23/32	1/8	3/8	30.0	18.0	3.0	9.5	6.0

30 Long Nose Pliers

ISO 5745 IEC 60900 ASTM F1505

- heavy duty gripping pliers
- different jaw styles for a wide range of applications
- Chrome vanadium electric steel; forged, oil-hardened

Style 3
long, round jaws; smooth gripping surfaces

30 36 160
1000 V

Product Number	inch	mm		Style	Pliers	Handles	Dimensions L3 inch	W3 inch	T1 inch	W4 inch	T2 inch	L3 mm	W3 mm	T1 mm	W4 mm	T2 mm	Ounces
30 16 160	6 1/4	160	1000 V	1	chrome plated	insulated with multi-component grips, VDE-tested	1 3/32	21/32	3/8	1/8	3/32	50.0	16.5	9.5	3.0	2.5	5.3
30 36 160	6 1/4	160	1000 V	3	chrome plated	insulated with multi-component grips, VDE-tested	1 19/32	21/32	3/8	13/64	3/32	41.0	16.5	9.5	5.0	2.5	5.0

25

Snipe Nose Side Cutting Pliers

(radio pliers)

ISO 5745 IEC 60900 ASTM F1505

- suitable for fine gripping and cutting work
- pointed, half-round jaws
- serrated gripping surfaces
- with cutting edges for soft, medium and hard wire
- cutting edges additionally induction hardened, cutting edge hardness approx. 61 HRC
- Vanadium electric steel; forged, oil-hardened

25 08 160 SBA

1000 V

Product Number	↔ inch		Pliers	Head	Handles	Cutting capacities Ø inch	Cutting capacities Ø inch	Dimensions L3 inch	W3 inch	T1 inch	W4 inch	T2 inch	Ounces
25 08 160 SBA	6 1/4	1000 V	black atramentized	polished	insulated with multi-component grips, VDE-tested	3/32	1/16	1 31/32	21/32	23/64	1/8	3/32	5.1

Product Number	↔ mm		Pliers	Head	Handles	Cutting capacities Ø mm	Cutting capacities Ø mm	Dimensions L3 mm	W3 mm	T1 mm	W4 mm	T2 mm	Ounces
25 08 160 SBA	160	1000 V	black atramentized	polished	insulated with multi-component grips, VDE-tested	2.5	1.6	50.0	16.5	9.0	3.0	2.5	5.1

26

Snipe Nose Side Cutting Pliers

(stork beak pliers)

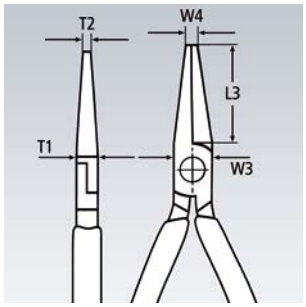
ISO 5745 IEC 60900 ASTM F1505

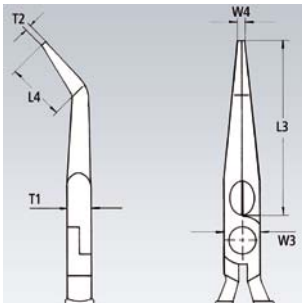
Elastic tips: stable even when twisted

- resilient precision tips snap back into place even after being twisted
- half-round, long, pointed jaws
- with additionally hardened cutting edges (hardness approx. 61 HRC) for soft, medium hard and hard wire
- Vanadium electric steel; forged, oil-hardened

26 18 200 SBA

1000 V





Product Number	↔ inch		Pliers	Head	Handles	Cutting capacities Ø inch	Cutting capacities Ø inch	Dimensions L3 inch	L4 inch	T1 inch	W3 inch	W4 inch	T2 inch	Ounces
26 18 200 SBA	8	1000 V	black atramentized	polished	insulated with multi-component grips, VDE-tested	1/8	3/32	2 7/8		3/8	11/16	1/8	3/32	6.0
26 28 200 SBA	8	40° 1000 V	black atramentized	polished	insulated with multi-component grips, VDE-tested	1/8	3/32	2 7/8	29/32	3/8	11/16	1/8	3/32	6.0

Product Number	↔ mm		Pliers	Head	Handles	Cutting capacities Ø mm	Cutting capacities Ø mm	Dimensions L3 mm	L4 mm	T1 mm	W3 mm	W4 mm	T2 mm	Ounces
26 18 200 SBA	200	1000 V	black atramentized	polished	insulated with multi-component grips, VDE-tested	3.2	2.2	73.0		9.5	17.5	3.0	2.5	6.0
26 28 200 SBA	200	40° 1000 V	black atramentized	polished	insulated with multi-component grips, VDE-tested	3.2	2.2	73.0	23.0	9.5	17.5	3.0	2.5	6.0

70

Diagonal Cutters

ISO 5749 IEC 60900 ASTM F1505

- the essential cutting tool for versatile use
- high quality material and precise workmanship for long service life
- precision cutting edges (cutting edge hardness approx. 62 HRC) for soft and hard wire
- clean cutting of thin copper wires, also at the cutting edge tips
- narrow head style for use in confined areas
- Vanadium electric steel; forged, oil-hardened

70 08 160 SBA

1000 V

70 08 180 SBA

1000 V

Slim head style and precise cut at blade tips: Advantageous when working in confined areas.

Product Number	↔ inch	↔ mm		Pliers	Head	Handles	Cutting capacities Ø inch	Ø inch	Ø inch	Ø mm	Ø mm	Ø mm	Ounces
70 08 160 SBA	6 1/4	160	1000 V	black atramentized	polished	insulated with multi-component grips, VDE-tested	5/32	7/64	5/64	4.0	2.8	2.0	6.0
70 08 180 SBA	7 1/4	180					5/32	1/8	3/32	4.0	3.0	2.5	7.1

74

High Leverage Diagonal Cutters

ISO 5749 IEC 60900 ASTM F1505

20% reduction in required force
compared to conventional diagonal cutters of the same length. With forged-on joint axle.

- for very tough, continuous use
- high cutting performance with minimum effort due to optimum coordination of the cutting edge angle, transmission ratio and ergonomic handle shape
- precision cutting edges (cutting edge hardness approx. 64 HRC) cut several types of wire including piano wire
- Chrome vanadium heavy duty steel; forged, oil-hardened

74 08 200 SBA

1000 V

74 08 250 SBA

1000 V

Product Number	↔ inch	↔ mm		Style	Pliers	Head	Handles	Cutting capacities Ø inch	Ø inch	Ø inch	Ø mm	Ø mm	Ø mm	Ounces
74 08 200 SBA	8	200	1000 V	0	black atramentized	polished	insulated with multi-component grips, VDE-tested	11/64	1/8	3/32	4.2	3.0	2.5	10.7
74 08 250 SBA	10	250						3/16	9/64	1/8	4.6	3.5	3.0	15.4

73

KNIPEX X-Cut

ISO 5749 IEC 60900 ASTM F1505

73 06 160

1000 V

- box-joint design: highest stability at low weight
- dual supported joint axis for heavy duty cutting
- high cutting capacity with very little effort due to the optimum coordination of cutting edge angle and lever ratio with off center pivot point
- 40% less effort required compared to diagonal cutters of the same length
- large opening width for thicker cables
- cuts all wires precisely, even fine copper wires
- compact, low weight construction
- universally usable in assembly, maintenance and production
- Chrome vanadium heavy duty steel; forged, oil-hardened

Product Number	↔ inch		Pliers	Handles	Ø inch	Ø inch	Ø inch	Ø inch	Ø inch	Ounces
73 06 160	6 1/4	1000 V	chrome plated	insulated with multi-component grips, VDE-tested	3/16	5/32	7/64	3/32	30/64	6.9

Product Number	↔ mm		Pliers	Handles	Ø mm	Ø mm	Ø mm	Ø mm	Ø mm	Ounces
73 06 160	160	1000 V	chrome plated	insulated with multi-component grips, VDE-tested	4.8	3.8	2.7	2.2	12.0	6.9

86 07

Pliers Wrench

IEC 60900 ASTM F1505

86 07 250 SBA

1000 V

- replaces a full set of inch and metric open end wrenches
- adjustable tightening tool
- excellent for gripping, holding, pressing and bending applications
- smooth jaws for careful installation of plated fittings
- will not round off nuts and bolts and won't damage chrome and other soft finishes
- parallel jaws allow infinitely variable gripping of all widths to the specified maximum size
- reliable catching of the hinge bolt: no unintentional shifting
- the action of the jaws allows bolted connections to be tightened and released quickly using the ratchet principle
- lever transmission greater than 10 - 1 for strong gripping power
- Chrome vanadium electric steel; forged, oil-hardened

Product Number	↔ inch	↔ mm		Pliers	Handles	inch	mm	Adjustment positions	Dimensions B1 inch	B2 inch	B3 inch	B1 mm	B2 mm	B3 mm	Ounces
86 07 250 SBA	10	250	1000 V	chrome plated	with dipped insulation grips, VDE-tested	1 3/4	46	17	5/16	5/16	35/64	8.0	8.0	14.0	21.7

87 28

KNIPEX Cobra® VDE

Hightech Water Pump Pliers

ISO 5749 IEC 60900 ASTM F1505

87 28 250 SBA

1000 V

It's easy to achieve the perfect capacity on the KNIPEX Cobra® VDE Pliers. You don't even have to push the button! Simply place the upper gripping jaw of the pliers on the work piece and slide the upper handle forward.

- adjustment by shifting the jaw directly on to the workpiece: fast, reliable and comfortable handle width
- opening at the touch of a button off the workpiece
- fine adjustment for optimum adaptation to different workpiece sizes and a comfortable gripping position
- good access to the workpiece due to slim size in the head and joint area
- self-locking on pipes and nuts: no slipping on the workpiece and low handforce required
- gripping surfaces with special hardened teeth, teeth hardness approx. 61 HRC: low wear and reliable gripping
- box-joint design: high stability because of double guide
- pinch guard prevents operators' fingers being pinched
- Chrome vanadium electric steel; forged, oil-hardened

Quick adjustment to the workpiece without using the push-button, hands stay behind guard

Just push the pliers handle to adjust

Product Number	↔ inch	↔ mm		Pliers	Head	Handles	○ Ø inch	○ Ø mm	⬡ inch	⬡ mm	Adjustment positions	⚖ Ounces
87 28 250 SBA	10	250	1000 V	grey atramentized	polished	insulated with multi-component grips, VDE-tested	2	50.0	1 3/4	46.0	24	12.0

88

KNIPEX Alligator® Water Pump Pliers

ISO 5749 IEC 60900 ASTM F1505

88 08 250 SBA

1000 V

- box-joint design: high stability because of double guide
- self-locking on pipes and nuts: no slipping on the workpiece and low handforce required
- pinch guard prevents operators' fingers from being pinched
- favorable lever action: optimum transmission of force
- gripping surfaces with special hardened teeth, teeth hardness approx. 61 HRC: low wear and reliable gripping
- Chrome vanadium electric steel, forged, oil-hardened

Product Number	↔ inch	↔ mm		Pliers	Head	Handles	○ Ø inch	⬡ inch	○ Ø mm	⬡ mm	Adjustment positions	⚖ Ounces
88 08 250 SBA	10	250	1000 V	black atramentized	polished	insulated with multi-component grips, VDE-tested	2	1 3/4	50.0	46.0	9	13.7

95 0

Cable Shears

IEC 60900 ASTM F1505

95 06 230
1000 V

- insulated and tested according to IEC 60900 / ASTM F 1505
- not suitable for ACSR, steel wire and hard drawn copper conductors
- precision ground, hardened blades
- no crushing, only slight deformation of the cable
- with pinch guard and slip guard
- adjustable bolted joint
- shears body: Surgical steel; stainless, air-hardened
- handles: plastic, impact-resistant

95 06 230
for copper conductors single wire up to 16 mm², multiple wire up to 1/0 AWG, fine-stranded up to 70 mm² and aluminium conductors multiple wire up to 70 mm²; easy cutting with one handed operation due to high transmission ratio; stainless – surgical steel, oil-hardened and tempered

Product Number	↔ inch	↔ mm		Head	Handles	Cutting capacities Ø inch	Ø mm	mm²	AWG	Ounces
95 06 230	9 1/4	230	1000 V	polished	plastic insulated, VDE-tested	5/8	16.0	50	1/0	9.7

95 1

Cable Shears

IEC 60900 ASTM F1505

95 18 165 SBA
1000 V

- for cutting copper and aluminium cables, single and multiple wire
- not suitable for ACSR, steel wire and hard drawn copper conductors
- precision ground, hardened blades
- clean and smooth cut without crushing and deformation
- easy cutting with one handed operation
- with pinch-guard and slip-guard
- adjustable bolted joint, self-locking screw
- High-grade special tool steel, forged, oil-hardened

Cut performed with a Diagonal Cutter: high effort required, inaccurate cut, considerable deforming and crushing of the cable

Cut effected with a Cable Shear: easy, clean cut without any deformation of the cable

Product Number	↔ inch	↔ mm		Style	Tool	Handles	Cutting capacities Ø inch	Ø mm	mm²	AWG	Ounces
95 18 165 SBA	6 1/4	165	1000 V	1	burnished	insulated with multi-component grips, VDE-tested	19/32	15.0	50	1/0	8.8

95 1

Cable Shears with twin cutting edge

IEC 60900 ASTM F1505

PATENTED

95 18 200 SBA

1000 V

- for cutting copper and aluminium cables
- not suitable for ACSR, steel wire and hard drawn copper conductors
- precision ground, hardened blades
- clean and smooth cut without crushing and deformation
- by dividing the cutting actions into initial cut (insulating sheath in the front cutting area) and final cut (conductor in the back cutting area), cables up to Ø 51/64" can be cut in one handed operation
- less effort required due to favorable lever ratio and optimized cutting edge geometry
- with pinch guard and slip guard
- adjustable screw joint, self-locking
- High-grade special tool steel; forged, oil-hardened

Initial cut: Using the front cutting edge to cut the insulating sheath on larger cable diameters leaves an ergonomic handle opening width.

Final cut: After cutting the sheath in the front profile, the cut is finished through the metal part of the cable in the rear profile. Initial cut in the front profile, final cut in the rear profile – to keep it as easy as possible.

Product Number	↔ inch	↔ mm		Tool	Handles	Cutting capacities Ø inch	Ø mm	mm²	AWG	Ounces
95 18 200 SBA	8	200	1000 V	burnished	insulated with multi-component grips, VDE-tested	51/64	20.0	70	2/0	12.0

95 1

Cable Shears

IEC 60900 ASTM F1505

95 17 500

1000 V

- for cutting copper and aluminium cables, single and multiple wire
- not suitable for ACSR, steel wire and wire ropes
- precision ground, hardened blades
- clean and smooth cut without crushing and deformation
- low handforce required due to favorable lever ratio and new blade geometry
- short design, length only 20"
- low weight
- with pinch guard
- adjustable bolted joint
- cutter head: Vanadium electric steel; forged, oil-hardened
- handle shank: aluminium tube, high-strength

Large cutting capacity: max. 1" dia./150 mm²

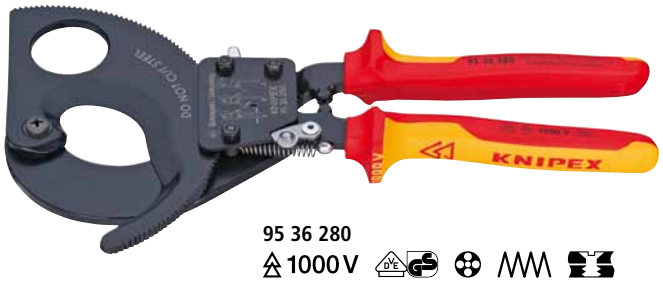
Product Number	↔ inch	↔ mm		Head	Handles	Cutting capacities Ø inch	Ø mm	mm²	AWG	Ounces
95 17 500	20	500	1000 V	polished	plastic dipped insulated, VDE-tested	1	27.0	150	5/0	52.1

95 3

Cable Cutters ratchet action

PATENTED

IEC 60900 ASTM F1505



95 36 280
1000 V

- for cutting copper and aluminium cables, single and multiple wire
- not suitable for ACSR, steel wire and wire ropes
- precision ground, hardened blades
- clean and smooth cut without crushing and deformation
- one handed operation using ratchet principle
- little handforce required due to very high transmission ratio
- two-stage ratchet drive for easy cutting
- simple handling as a result of light weight and compact design – can be used even in confined areas
- with pinch guard and slip guard
- High-grade special tool steel; forged, oil-hardened

95 36 280
suitable for aluminium sector cable up to 4 x 300 MCM (4 x 150 mm²)

Product Number	↔ inch	↔ mm		Tool	Handles	Cutting capacities Ø inch	Ø mm	mm²	MCM	Ounces
95 36 250	10	250	1000 V	black lacquered	insulated with multi-component grips, VDE-tested	1 1/4	32.0	240	500	23.0
95 36 280	11	280	1000 V	black lacquered	insulated with multi-component grips, VDE-tested	2	52.0	380	750	29.5
95 39 280		Movable spare blade for 95 31 280 / 95 36 280								

95 3

Cable Cutters (ratchet action)

Sturdy. Easy to use. Stable. Innovative ratchet-drive. For cable up to 2 23/64 in diameter.

95 36 320
1000 V

- easy handling due to low weight (28.2 oz.) and compact construction (12 1/2" length) – usable in confined areas also
- cutting through copper and aluminium cables with diameters of up to 2 23/64 in (60 mm) in one handed and two handed
- hardened cutting edges, precisely ground, cut smoothly and neatly without crushing
- for cutting copper and aluminium single conductors as well as multiple stranded cables
- not suitable for cutting ACSR, steel wire and wire ropes
- innovative three-stage ratchet-drive with high leverage for easy cutting in one-hand and two-hand operation
- with one handed and two handed
- fixed handle with support area for putting down the pliers when cutting
- High-grade special tool steel, forged, oil-hardened

Product Number	↔ inch	↔ mm		Tool	Handles	Cutting capacities Ø inch	Ø mm	mm²	MCM	Ounces
95 36 320	12 1/2	320	1000 V	black atramentized	insulated with multi-component grips, VDE-tested	2 23/64	60.0	600	1200	28.2
95 39 280		Movable spare blade for 95 31 280 / 95 36 280								

95 7

Wire Rope and Cable Cutter

IEC 60900 ASTM F1505

95 77 600

1000 V

- for ACSR, wire ropes and steel rods, copper and aluminium cables
- angular cutting blades prevent fanning out
- optimum transmission ratio for high cutting performance
- bolted cutter head; replaceable
- lightweight
- cutter head: High-grade special tool steel; oil-hardened
- handles: Aluminium, high-strength, drop forged

Product Number	↔ inch		Head	Handles	Cutting capacities inch	Ø inch	Ø inch	AWG	Ounces
95 77 600	23 1/2	1000 V	polished	plastic dipped insulated	5 29/32	35/64	23/64	5/0	83.2

Product Number	↔ mm		Head	Handles	mm²	Ø mm	Ø mm	AWG	Ounces
95 77 600	600	1000 V	polished	plastic dipped insulated	150	14.0	9.0	5/0	83.2
95 79 600	Spare cutter head for 95 77 600								

97 68

Crimping Pliers for end sleeves (ferrules)

IEC 60900 ASTM F1505

97 68 145 A

1000 V

- for crimping wire end ferrules in an area of application from 13 - 23 AWG (0.25 up to 2.5 mm²)
- crimping in marked trapezoidal dies for tight connections between the sleeve and the conductor
- Vanadium electric steel; forged, oil-hardened

Product Number	↔ inch	↔ mm		Head	Handles			Capacity mm²	AWG	Number of crimping positions	Ounces
97 68 145 A	5 3/4	145	1000 V	polished	insulated with multi-component grips, VDE-tested			0.25 - 2.5	13 - 23	6	6.2

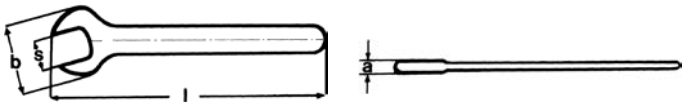
98 0

Open End Wrenches

IEC 60900 ASTM F1505

- jaw 15° angled
- basic tool chrome plated
- Chrome vanadium steel; forged, oil-hardened

98 00 7/16
1000 V



Product Number		Width across flats S inch	Length l max. inch	Head width b max. inch	Head thickness a max. inch	Ounces
98 00 7/16"	1000 V	7/16	4 3/4	1 3/16	23/64	1.9
98 00 1 1/16"		1 1/16	8 1/2	2 1/2	23/64	14.1

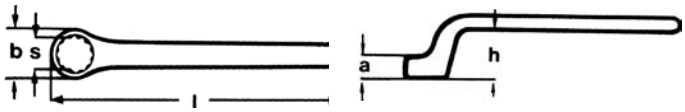
98 0

Box Wrenches

IEC 60900 ASTM F1505

- cranked
- basic tool chrome plated
- Chrome vanadium steel; forged, oil-hardened

98 01 14
1000 V



Product Number		Width across flats S inch	Length l max. inch	Length l max. mm	Head width b max. inch	Head width b max. mm	Head thickness a max. inch	Head thickness a max. mm	Ounces
98 01 1 1/16"	1000 V	1 1/16	10 7/16	265.0	1 1/2	38.0	5/8	16.0	14.1
98 01 1/2"		1/2	7 9/32	185.0	55/64	21.5	7/16	11.0	6.0
98 01 1/16"		1 1/16	8 5/64	205.0	1 1/16	27.0	1/2	13.0	7.1
98 01 3/4"		3/4	8 55/64	225.0	1 3/16	30.0	35/64	14.0	8.7
98 01 3/8"		3/8	6 19/64	160.0	43/64	17.0	23/64	9.0	3.5
98 01 5/16"		5/16	6 7/64	155.0	35/64	14.0	9/32	7.0	2.5
98 01 5/8"		5/8	7 7/8	200.0	1 1/64	26.0	15/32	12.0	6.8
98 01 7/16"		7/16	6 1/2	165.0	47/64	18.5	25/64	10.0	4.2
98 01 7/8"		7/8	8 55/64	225.0	1 3/8	35.0	19/32	15.0	10.9
98 01 9/16"		9/16	7 11/16	195.0	29/32	23.0	15/32	12.0	3.6

98 0

Nut Drivers with screwdriver handle

IEC 60900 ASTM F1505

98 03 10
1000 V

- ergonomically optimized dual component handle for fatigue-reduced work and optimum transmission of force
- handle design prevents rolling
- Chrome vanadium molybdenum steel

Product Number	↔ inch		tip	Handle	Width across flats S inch	Blade length inch	Handle length inch	Head dia. inch	Ounces
98 03 04	9 1/4	1000 V	burnished	insulating multi-component handle, VDE-tested	5/32	5	4 7/32	23/64	2.5
98 03 05	9 1/4				13/64	5	4 7/32	25/64	2.5
98 03 08	9 1/4				5/16	5	4 13/32	19/32	4.4
98 03 10	9 1/4				25/64	5	4 13/32	43/64	4.2

Product Number	↔ mm		tip	Handle	Width across flats S mm	Blade length mm	Handle length mm	Head dia. mm	Ounces
98 03 04	230	1000 V	burnished	insulating multi-component handle, VDE-tested	4.0	125.0	107.0	9.0	2.5
98 03 05	230				5.0	125.0	107.0	10.0	2.5
98 03 08	237				8.0	125.0	112.0	15.0	4.4
98 03 10	237				10.0	125.0	112.0	17.0	4.2

98 0

Nut Drivers with T-handle

IEC 60900 ASTM F1505

98 05 13
1000 V

- Special tool steel; oil-hardened

Product Number	↔ inch		Width across flats S inch	Handle length max. inch	Head dia. inch	Ounces
98 04 08	8		5/16	3 35/64	19/32	12.1
98 04 17	8	1000 V	43/64	6 7/64	1 1/8	15.0
98 04 19	8		3/4	6 7/64	1 7/32	18.5
98 05 13	12		33/64	6 7/64	15/16	14.4
98 05 17	12	1000 V	43/64	6 7/64	1 1/8	19.2
98 05 19	12		3/4	6 7/64	1 7/32	23.8

Product Number	↔ mm		Width across flats S mm	Handle length max. mm	Head dia. mm	Ounces
98 04 08	200		8.0	90.0	15.0	12.1
98 04 17	200	1000 V	17.0	155.0	28.5	15.0
98 04 19	200		19.0	155.0	31.0	18.5
98 05 13	300		13.0	155.0	23.5	14.4
98 05 17	300	1000 V	17.0	155.0	28.5	19.2
98 05 19	300		19.0	155.0	31.0	23.8

98 07

Adjustable Wrench

IEC 60900

- parallel smooth gripping jaws
- variable gripping width
- with scaling for pre-setting the width apart from the workpiece
- with slip guard
- Chrome vanadium steel

98 07 250
1000 V ∠22°

Product Number	↔ inch		Tool	Handle	inch	Jaw width inch	Head width inch	Width inch	Depth inch	Ounces
98 07 250	10	1000 V ∠22°	chrome plated	plastic dipped insulated	1 3/16	5/16	5/8	2 7/8	51/64	17.6

Product Number	↔ mm		Tool	Handle	mm	Jaw width mm	Head width mm	Width mm	Depth mm	Ounces
98 07 250	260	1000 V ∠22°	chrome plated	plastic dipped insulated	30	8.0	16.0	73.0	20.0	17.6

98 1

Screwdrivers for hexagon socket screws with T-handle

IEC 60900 ASTM F1505

- Special tool steel; oil-hardened

98 15 08
1000 V

S

Product Number	↔ inch		Width across flats S inch	Length of non-insulated blade ± 5/64 inch	T-Handle length inch	Ounces
98 14 05	4 3/4		13/64	23/64	3 35/64	7.8
98 14 06	4 3/4	1000 V	15/64	25/64	3 35/64	7.3
98 14 08	4 3/4		5/16	7/16	3 35/64	10.1
98 15 05	10		13/64	23/64	3 35/64	12.8
98 15 06	10	1000 V	15/64	25/64	3 35/64	15.9
98 15 08	10		5/16	7/16	3 35/64	12.7

Product Number	↔ inch		Width across flats S mm	Length of non-insulated blade ± 2 mm	T-Handle length mm	Ounces
98 14 05	120		5.0	9.0	90.0	7.8
98 14 06	120	1000 V	6.0	10.0	90.0	7.3
98 14 08	120		8.0	11.0	90.0	10.1
98 15 05	250		5.0	9.0	90.0	12.8
98 15 06	250	1000 V	6.0	10.0	90.0	15.9
98 15 08	250		8.0	11.0	90.0	12.7

98

T-handle with driving square 3/8" or 1/2"

IEC 60900 ASTM F1505

98 40
1000 V ½"

- for use with sockets
- quick, easy and reliable locking of attached sockets
- chrome plated
- High-grade special tool steel; forged, oil-hardened

Product Number	↔ inch	↔ mm		Handle length inch	Handle length mm	Square drive inch	Ounces
98 30	8	200	1000 V ⅜	6 1/2	165	3/8	15.8
98 40	8	200	1000 V ½	6 1/2	165	1/2	22.3

98

Reversible Ratchets

with driving square 3/8" or 1/2"

IEC 60900 ASTM F1505

98 31
1000 V ⅜"

- for use with sockets
- reversible for clockwise and counter-clockwise directions
- extremely smooth action
- quick, easy and reliable locking of attached sockets
- Chrome vanadium steel; forged

Product Number	↔ inch	↔ mm		Square drive Inch	Ounces
98 31	7 1/2	190	1000 V ⅜	3/8	11.4
98 41	10 1/2	265	1000 V ½	1/2	22.0

98

Extension Bars

with male and female driving square 3/8" or 1/2"

IEC 60900 ASTM F1505

98 35 125
1000 V ⅜" ⅜

98 45 250
1000 V ½" ½

- for use with sockets
- with internal and external square
- quick, easy and reliable locking of attached sockets
- Chrome vanadium steel; forged

Product Number	↔ inch	↔ mm		Square drive inch	Ounces
98 35 125	5	125	1000 V ⅜ ⅜	3/8	5.3
98 35 250	10	250		3/8	10.4
98 45 125	5	125	1000 V ½ ½	1/2	9.1
98 45 250	10	250		1/2	17.3

98

Hexagon sockets for hexagon screws

driving square 3/8" or 1/2"

IEC 60900 ASTM F1505

- for metric and imperial hexagonal head screws
- chrome plated
- Chrome vanadium steel

98 37 17
1000 V

Product Number		Width across flats S inch	mm	Diameter of effective tool side d max. inch	mm	Square drive inch	Ounces
98 37 10	1000 V	25/64	10.0	47/64	18.7	3/8	1.1
98 37 11		7/16	11.0	51/64	20.0	3/8	1.1
98 37 12		15/32	12.0	53/64	21.2	3/8	1.2
98 37 13		1/2	13.0	57/64	22.5	3/8	1.2
98 37 14		35/64	14.0	15/16	23.7	3/8	1.4
98 37 16		5/8	16.0	1 1/32	26.2	3/8	1.9
98 37 17		43/64	17.0	1 5/64	27.5	3/8	2.2
98 37 19		3/4	19.0	1 3/16	30.0	3/8	2.6
98 37 5/16"		5/16		41/64	16.2	3/8	1.1
98 37 3/8"		3/8		47/64	18.7	3/8	1.1
98 37 7/16"		7/16		51/64	20.0	3/8	1.1
98 37 1/2"		1/2		57/64	22.5	3/8	1.2
98 37 9/16"		9/16		15/16	23.7	3/8	1.4
98 37 5/8"		5/8		1 1/32	26.2	3/8	1.8
98 37 3/4"		3/4		1 3/16	30.0	3/8	2.5
98 37 1/4"		1/4		37/64	14.7	3/8	1.1
98 47 10	1000 V	25/64	10.0	49/64	19.5	1/2	2.2
98 47 11		7/16	11.0	13/16	20.7	1/2	2.2
98 47 12		15/32	12.0	29/32	23.0	1/2	2.3
98 47 13		1/2	13.0	29/32	23.2	1/2	2.3
98 47 14		35/64	14.0	31/32	24.5	1/2	2.4
98 47 16		5/8	16.0	1 1/16	26.9	1/2	2.4
98 47 17		43/64	17.0	1 7/64	28.2	1/2	2.6
98 47 18		23/32	18.0	1 9/64	29.0	1/2	2.9
98 47 19		3/4	19.0	1 7/32	30.7	1/2	3.5
98 47 22		55/64	22.0	1 23/64	34.5	1/2	4.4
98 47 24		15/16	24.0	1 29/64	37.0	1/2	5.3
98 47 27		1 1/16	27.0	1 39/64	41.0	1/2	6.5
98 47 1/2"		1/2		29/32	23.2	1/2	2.4
98 47 9/16"		9/16		31/32	24.5	1/2	2.3
98 47 5/8"		5/8		1 1/16	26.9	1/2	2.5
98 47 11/16"		11/16		1 7/64	28.2	1/2	3.1
98 47 3/4"		3/4		1 7/32	30.7	1/2	3.4
98 47 7/8"		7/8		1 23/64	34.5	1/2	4.4
98 47 1"		1		0 00/00	41.0	1/2	167

98

Hexagon Sockets for socket screws

with driving square 3/8" or 1/2"

IEC 60900 ASTM F1505

- for metric socket head screws
- chrome plated
- Special tool steel

98 39 06
1000 V

Product Number	↔ inch	↔ mm		Width across flats S inch	Width across flats S mm	Length of non-insulated blade ± 5/64 inch	Length of non-insulated blade ± 2 mm	Square drive inch	Ounces
98 39 05	3	75	1000 V	13/64	5.0	23/64	9.0	3/8	2.1
98 39 06	3	75	1000 V	1/4	6.0	25/64	10.0	3/8	2.0
98 49 05	3	75		13/64	5.0	23/64	9.0	1/2	2.4
98 49 06	3	75	1000 V	1/4	6.0	25/64	10.0	1/2	2.5
98 49 08	3	75		5/16	8.0	7/16	11.0	1/2	3.1

98 4

Reversible Ratchet with driving square 1/2"

IEC 60900 ASTM F1505

- reversible for clockwise and counter-clockwise directions
- very reliable coupling of sockets with bolt-activated locking system
- Chrome vanadium steel

98 42
1000 V 1/2"

Product Number	↔ inch	↔ mm		Square drive inch	Ounces
98 42	10 1/2	265	1000 V	1/2	21.1

98

Torque Wrench

with driving square 3/8" or 1/2", reversible

IEC 60900 ASTM F1505

- reversible for tightening of left handed threads
- lockable torque adjustment
- very reliable coupling of sockets with bolt-activated locking system
- transparent insulated scale range
- calibration certificate included
- Chrome vanadium steel

98 43 50
1000 V 1/2"

Transparent insulated scale range

Product Number	↔ inch	↔ mm		Range of Application	Square drive inch	Ounces
98 33 25	11 1/2	290	1000 V 3/8	5 - 25 Nm	3/8	43.4
98 33 50	15	385		5 - 50 Nm	3/8	43.4
98 43 50	15	385	1000 V 1/2	5 - 50 Nm	1/2	43.4

98 5

Cable Knives

IEC 60900 ASTM F1505

- ergonomically improved handle shape with comfortable slip guard
- strong grip thanks to slip-proof soft components
- thumb recess and "finger hook" at the end of the handle ensure a good transmission of force when the blade is pulled
- solid, fixed straight blade
- transparent protective cap
- blade: Special tool steel; oil-hardened

98 52
1000 V

98 54
back of the blade is plastic coated to avoid short circuits

98 54
1000 V

Product Number	↔ inch	↔ mm		Handle	Blade length inch	Blade length mm	Ounces
98 52	7 1/4	180	1000 V	insulating multi-component handle, VDE-tested	1 31/32	50.0	2.4
98 54	7 1/4	180	1000 V	insulating multi-component handle, VDE-tested	1 31/32	50.0	2.4

98 5

Dismantling Knives

IEC 60900 ASTM F1505

- ergonomically improved handle shape with comfortable slip guard
- strong grip thanks to slip-proof soft components
- thumb recess and "finger hook" at the end of the handle ensure a good transmission of force when the blade is pulled
- transparent protective cap

98 53 03
1000 V

98 53 03
solid, fixed hook blade; suitable for round cables; blade: special tool steel; oil-hardened

98 53 13
1000 V

98 53 13
narrow, fixed hook blade, sickle-shaped; suitable for sector cables; blade: special tool steel; oil-hardened

98 55
1000 V

98 55
solid, fixed hook blade, sickle shaped; with guide shoe at the blade point; no damage of the conductor insulation; blade: surgical steel; stainless, air-hardened

Product Number	↔ inch	↔ mm		Handle	Blade length inch	Blade length mm	Radius inch	Radius mm	Ounces
98 53 03	6	155	1000 V	insulating multi-component handle, VDE-tested	1 7/64	28.0	9/32	7.0	2.3
98 53 13	7 1/4	180	1000 V	insulating multi-component handle, VDE-tested	1 31/32	50.0	1 37/64	40.0	2.3
98 55	6	155	1000 V	insulating multi-component handle, VDE-tested	1 1/2	38.0	59/64	23.5	2.4

98 5 Cable Knife

IEC 60900 ASTM F1505

98 56
1000 V

- straight blade with special grinding; replaceable
- with hinged blade guard integrated in the handle; captive
- back of the blade is plastic coated to avoid short circuits
- ergonomically shaped safety handle
- blade: Surgical steel; stainless, air-hardened

Product Number	↔ inch	↔ mm		Blade length inch	Blade length mm	Ounces
98 56	7 1/2	185	1000 V	1 31/32	50.0	2.3
98 56 09		Spare blade for 98 56				

98 6 Flat Nose Pliers of plastic insulating

IEC 60900 ASTM F1505

98 62 01
1000 V

- full insulation reduces risk of short circuits
- for meter installation and meter blocking
- plastic material, fiberglass-reinforced

Product Number	↔ inch	↔ mm		Ounces
98 62 01	7 1/4	180	1000 V	4.6

98 6 Snipe Nose Pliers of plastic insulating

IEC 60900 ASTM F1505

98 62 02
1000 V

- full insulation reduces risk of short circuits
- plastic material, fiberglass-reinforced

Product Number	↔ inch	↔ mm		Ounces
98 62 02	8 3/4	220	1000 V	4.9

98 6 Insulating Clamp

from plastic

DIN VDE 0680-1

98 64 02
1000 V

- for holding insulated mats in place
- with integrated spring
- fully insulated to avoid short cicuits
- solid plastic, fiberglass-reinforced

Product Number	↔ inch	↔ mm		Clamping capacity inch	Clamping capacity mm	Ounces
98 64 02	6	150	1000 V	19/32	15	2.2

98 6

Plastic Slip-On Caps conical

DIN VDE 0680-1

- to cover bare live cable ends (max. 25/64" dia.)
- plastic

98 65 02
1000 V

Product Number	↔ inch	↔ mm		Conductor key	Ounces
98 65 01	3	80	1000 V	1	0.3
98 65 02	3	80	1000 V	2	0.3
98 65 03	3	80	1000 V	3	0.3

98 6

Self-Clamping Slip-On Caps

DIN VDE 0680-1

- to cover bare live cable ends
- plastic

98 65 30
1000 V

Product Number	↔ inch	↔ mm		Inside dia. inch	Inside dia. mm	Ounces
98 65 10	4 1/4	110	1000 V	1 25/64	10.0	1.8
98 65 20	4 1/4	110	1000 V	1 51/64	20.0	1.8
98 65 30	4 1/4	110	1000 V	1 3/16	30.0	1.8

98 90

PUK® Junior Hacksaw

IEC 60900 ASTM F1505

- saw blade for metal and wood with 25 teeth per inch; exchangeable

98 90
1000 V

Product Number	↔ inch	↔ mm		Saw blade length inch	Saw blade length mm	Ounces
98 90	9 1/2	240	1000 V	6	150.0	6.1

98
98

Automotive Set 5 parts

IEC 60900 ASTM F1505

- for the Automotive Technician

98 98 20 US
1000 V

Product Number			Units		Ounces
98 98 20 US	Automotive Set with insulated tools for working on electrical installations				44.8
	74 08 250	10" High Leverage Diagonal Cutter	1	1000 V	
	88 08 250	10" Alligator® Water Pump Pliers	1	1000 V	
	53704	Slotted Screwdriver MaxxPro	1	1000 V	
	53706	Slotted Screwdriver MaxxPro	1	1000 V	
	53712	Phillips Screwdriver MaxxPro	1	1000 V	

98
98

Tradesman's Set 5 parts

IEC 60900 ASTM F1505

- for the Journeyman or Apprentice Electrician
- with insulated tools for working on electrical installations

98 98 21 US
1000 V

Product Number			Units		Ounces
98 98 21 US	Tradesman's Set with insulated tools for working on electrical installations				40.8
	74 08 200	8" High Leverage Diagonal Cutter	1	1000 V	
	02 08 225	9" High Leverage Combination Pliers	1	1000 V	
	53705	Slotted Screwdriver MaxxPro	1	1000 V	
	53712	Phillips Screwdriver MaxxPro	1	1000 V	
	54812	Square Screwdriver MaxxPro	1	1000 V	

98
98

High Leverage Trademan's Set 5 parts

IEC 60900 ASTM F1505

- for the Journeyman or Apprentice Electrician
- with insulated tools for working on electrical installations

98 98 22 US
1000 V

Product Number			Units		Ounces
98 98 22 US	High Leverage Trademan's Set with insulated tools for working on electrical installations				48.0
	74 08 250	10" High Leverage Diagonal Cutter	1	1000 V	
	09 08 240	9 1/4" Lineman's Pliers	1	1000 V	
	53705	Slotted Screwdriver MaxxPro	1	1000 V	
	53712	Phillips Screwdriver MaxxPro	1	1000 V	
	54812	Square Screwdriver MaxxPro	1	1000 V	

98
98

Roll-up pouches with insulated tools 7 parts

IEC 60900 ASTM F1505

- specific assortments to meet the needs of demanding trade professionals
- in a roll-up ballistic material pouch
- for the small to medium-sized electrical contractor who needs to have a set of insulated tools at all times and wants the very best
- with sturdy, adjustable snap closure
- all tools 100% tested and meet ASTM F1505 and IEC 60900 requirements
- Dimensions flat (W x H x D): 23 7/32 x 1 31/32 x 12 19/32"
- Dimensions rolled-up (W x H x D): 4 33/64 x 4 33/64 x 12 19/32"

Commercial Set

98 98 25 US
1000 V

Product Number			Units		Ounces
98 98 25 US	Roll-up pouch "Commercial Set" with insulated tools				64.8
	74 08 200	8" High Leverage Diagonal Cutter	1	1000 V	
	88 08 250	10" Alligator® Water Pump Pliers	1	1000 V	
	26 18 200	8" Long Nose Pliers	1	1000 V	
	02 08 225	9" High Leverage Combination Pliers	1	1000 V	
	53705	Slotted Screwdriver MaxxPro	1	1000 V	
	53712	Phillips Screwdriver MaxxPro	1	1000 V	
	54812	Square Screwdriver MaxxPro	1	1000 V	

High Leverage Commercial Set

98 98 26 US
1000 V

Product Number			Units		Ounces
98 98 26 US	Roll-up pouch "High Leverage Commercial Set" with insulated tools				71.2
	09 08 240	9 1/4" Lineman's Pliers	1	1000 V	
	26 18 200	8" Long Nose Pliers	1	1000 V	
	88 08 250	10" Alligator® Water Pump	1	1000 V	
	74 08 250	10" High Leverage Diagonal Cutter	1	1000 V	
	53705	Slotted Screwdriver MaxxPro	1	1000 V	
	53712	Phillips Screwdriver MaxxPro	1	1000 V	
	54812	Square Screwdriver MaxxPro	1	1000 V	

Commercial Set, the Si807

98 98 27 US
1000 V

Product Number			Units		Ounces
98 98 27 US	Roll-up pouch "Commercial Set", the Si807 with insulated tools				64.0
	26 18 200	8" Long Nose Pliers	1		
	74 08 200	8" High Leverage Diagonal Cutter	1		
	02 08 225	9" High Leverage Combination Pliers	1		
	88 08 250	10" Alligator® Water Pump Pliers	1		
	53704	Slotted Screwdriver, MaxxPro	1	1000 V	
	53706	Slotted Screwdriver MaxxPro	1	1000 V	
	53712	Phillips Screwdriver MaxxPro	1	1000 V	

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Compact Tool Cases with insulated tools 10 parts

IEC 60900 ASTM F1505

- specific assortments to meet the needs of demanding trade professionals
- all tools 100% tested and meet ASTM F1505 and IEC 60900 requirements
- high quality, versatile, shock-resistant plastic case
- foam insert with honeycomb structure for variable equipment
- Dimensions exterior (W x H x D): 17 1/8 x 3 15/16 x 12 25/64"
  Dimensions interior (W x H x D): 16 19/64 x 3 5/32 x 11 39/64"

98 98 30 US
1000 V

Industrial Set for the industrial electrician

Product Number			Units		Ounces
98 98 30 US	Compact Tool Case "Industrial Set" with insulated tools				104.0
	02 08 225	9" High Leverage Combination Pliers	1	1000 V	
	74 08 200	8" High Leverage Diagonal Cutter	1	1000 V	
	95 18 165	6 1/2" Cable Shears	1	1000 V	
	26 18 200	8" Long Nose Pliers	1	1000 V	
	88 08 250	10" Alligator® Water Pump Pliers	1	1000 V	
	53704	Slotted Screwdriver MaxxPro	1	1000 V	
	53706	Slotted Screwdriver MaxxPro	1	1000 V	
	53711	Phillips Screwdriver MaxxPro	1	1000 V	
	53712	Phillips Screwdriver MaxxPro	1	1000 V	
	54812	Square Screwdriver MaxxPro	1	1000 V	

98 98 31 US
1000 V

High Leverage Industrial Set for the industrial electrician

Product Number			Units		Ounces
98 98 31 US	Compact Tool Case "High Leverage Industrial Set" with insulated tools				112.0
	74 08 250	10" High Leverage Diagonal Cutter	1	1000 V	
	95 18 165	6 1/2" Cable Shears	1	1000 V	
	09 08 240	9 1/4" Lineman's Pliers	1	1000 V	
	26 18 200	8" Long Nose Pliers	1	1000 V	
	88 08 250	10" Alligator® Water Pump Pliers	1	1000 V	
	53704	Slotted Screwdriver MaxxPro	1	1000 V	
	53706	Slotted Screwdriver MaxxPro	1	1000 V	
	53711	Phillips Screwdriver MaxxPro	1	1000 V	
	53712	Phillips Screwdriver MaxxPro	1	1000 V	
	54812	Square Screwdriver MaxxPro	1	1000 V	

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Safety compact tool case 10 parts

IEC 60900 ASTM F1505

- shock-resistant plastic case
- foam insert with precise recesses for holding the pliers
- equipped with a range of custom insulated KNIPEX tools for work on electrical installations
- all tools 100% tested and meet ASTM F1505 and IEC 60900 requirements
- Dimensions exterior (W x H x D): 14 31/32 x 3 11/32 x 10 15/64"
- Dimensions interior (W x H x D): 13 3/16 x 2 3/4 x 9 3/64"

98 99 11 S3
1000 V

Product Number			Units		Ounces
98 99 11 S3	Safety compact tool case with insulated tools (3/8") for working on electrical installations				115.2
	98 31	Reversible Ratchet	1	1000 V	
	98 35 125	Extension Bar	1	1000 V	
	98 35 250	Extension Bar	1	1000 V	
	98 37 1/2"	Hexagon socket for hexagonal screws	1	1000 V	
	98 37 3/4"	Hexagon socket for hexagonal screws	1	1000 V	
	98 37 3/8"	Hexagon socket for hexagonal screws	1	1000 V	
	98 37 5/16"	Hexagon socket for hexagonal screws	1	1000 V	
	98 37 5/8"	Hexagon socket for hexagonal screws	1	1000 V	
	98 37 7/16"	Hexagon socket for hexagonal screws	1	1000 V	
	98 37 9/16"	Hexagon socket for hexagonal screws	1	1000 V	

98 99 11 S4
1000 V

Product Number			Units		Ounces
98 99 11 S4	Safety compact tool case with insulated tools (3/8") for working on electrical installations				119.2
	98 31	Reversible Ratchet	1	1000 V	
	98 35 125	Extension Bar	1	1000 V	
	98 35 250	Extension Bar	1	1000 V	
	98 37 10	Hexagon socket for hexagonal screws	1	1000 V	
	98 37 11	Hexagon socket for hexagonal screws	1	1000 V	
	98 37 12	Hexagon socket for hexagonal screws	1	1000 V	
	98 37 13	Hexagon socket for hexagonal screws	1	1000 V	
	98 37 14	Hexagon socket for hexagonal screws	1	1000 V	
	98 37 17	Hexagon socket for hexagonal screws	1	1000 V	
	98 37 19	Hexagon socket for hexagonal screws	1	1000 V	

Safety compact tool case 10 parts

IEC 60900 ASTM F1505

- shock-resistant plastic case
- foam insert with precise recesses for holding the pliers
- equipped with a range of custom insulated KNIPEX tools for work on electrical installations
- all tools 100% tested and meet ASTM F1505 and IEC 60900 requirements
- Dimensions exterior (W x H x D): 14 31/32 x 3 11/32 x 10 15/64"
- Dimensions interior (W x H x D): 13 3/16 x 2 3/4 x 9 3/64"

98 99 11 S5
1000 V

Product Number			Units		Ounces
98 99 11 S5	Safety compact tool case with insulated tools (1/2") for working on electrical installations				115.2
	98 41	Reversible Ratchet	1	1000 V	
	98 45 125	Extension Bar	1	1000 V	
	98 45 250	Extension Bar	1	1000 V	
	98 47 1/2"	Hexagon socket for hexagonal screws	1	1000 V	
	98 47 1	Hexagon socket for hexagonal screws	1	1000 V	
	98 47 11/16"	Hexagon socket for hexagonal screws	1	1000 V	
	98 47 3/4"	Hexagon socket for hexagonal screws	1	1000 V	
	98 47 5/8"	Hexagon socket for hexagonal screws	1	1000 V	
	98 47 7/8"	Hexagon socket for hexagonal screws	1	1000 V	
	98 47 9/16"	Hexagon socket for hexagonal screws	1	1000 V	

98 99 11 S6
1000 V

Product Number			Units		Ounces
98 99 11 S6	Safety compact tool case with insulated tools (1/2") for working on electrical installations				119.2
	98 41	Reversible Ratchet	1	1000 V	
	98 45 125	Extension Bar	1	1000 V	
	98 45 250	Extension Bar	1	1000 V	
	98 47 13	Hexagon socket for hexagonal screws	1	1000 V	
	98 47 14	Hexagon socket for hexagonal screws	1	1000 V	
	98 47 17	Hexagon socket for hexagonal screws	1	1000 V	
	98 47 19	Hexagon socket for hexagonal screws	1	1000 V	
	98 47 22	Hexagon socket for hexagonal screws	1	1000 V	
	98 47 24	Hexagon socket for hexagonal screws	1	1000 V	
	98 47 27	Hexagon socket for hexagonal screws	1	1000 V	

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Standard Tool Case 26 parts

with insulated tools for working on electrical installations

IEC 60900 ASTM F1505

- containing a range of insulated KNIPEX tools for work on electrical installations
- shock-resistant plastic case
- foam inserts with recesses for the tools
- fixable partition wall
- Dimensions exterior (W x H x D): 17 21/64 x 4 1/8 x 15 5/32"

98 99 12

Product Number			Units		Ounces
98 99 12	Standard Tool Case 26 parts				149.2
	03 07 200	8" Combination Pliers	1	1000 V	
	70 07 160	6 1/4" Diagonal Cutter	1	1000 V	
	98 00 10	Open End Wrench	1	1000 V	
	98 00 11		1		
	98 00 12		1		
	98 00 13		1		
	98 00 14		1		
	98 00 17		1		
	98 00 19		1		
	98 53 03	Dismantling Knife for round cable	1	1000 V	
	98 20 25	Screwdrivers for slotted screws	1	1000 V	
	98 20 35		1		
	98 20 40		1		
	98 20 55		1		
	98 24 00	Screwdrivers for cross-recessed screws, Phillips®	1	1000 V	
	98 24 01		1		
	98 24 02		1		
	98 40	T-handle	1	1000 V	
	98 47 10	Hexagon Socket for hexagonal screws	1	1000 V	
	98 47 11		1		
	98 47 12		1		
	98 47 13		1		
	98 47 14		1		
	98 47 17		1		
	98 47 19		1		
	98 52	Cable Knife	1	1000 V	

98
9

Tool Roll 15 parts

with insulated tools for working on electrical installations

IEC 60900 ASTM F1505

- tool roll made of hard-wearing polyester fabric
- with practical, adjustable quick release fastener
- containing a range of insulated KNIPEX tools for work on electrical installations

98 99 13
1000 V

Product Number			Units		Ounces
98 99 13	Tool Roll 15 parts				86.6
	03 07 200	8″ Combination Pliers	1	1000 V	
	11 07 160	6 1/4″ Insulation Stripper	1	1000 V	
	26 17 200	8″ Snipe Nose Side Cutting Pliers	1	1000 V	
	70 07 160	6 1/4″ Diagonal Cutter	1	1000 V	
	95 17 200	8″ Cable Shears	1	1000 V	
	98 00 10	Open End Wrench	1	1000 V	
	98 00 13		1		
	98 00 14		1		
	98 00 17		1		
	98 00 19		1		
	98 20 25	Screwdriver for slotted screws	1	1000 V	
	98 20 40		1		
	98 20 55		1		
	95 20 65		1		
	98 52	Cable Knife	1	1000 V	
	98 99 13 LE	Tool roll empty	1		

98
9

Safety tool rolls 8 parts

IEC 60900 ASTM F1505

- plastic tool roll
- equipped with open end wrenches for work on electrical installations
- all tools 100% tested and meet ASTM F1505 and IEC 60900 requirements
- Dimensions, rolled out (W x H x D): 16 9/64 x 63/64 x 11 13/32"
- Dimensions, rolled up (W x H x D): 2 61/64 x 2 61/64 x 11 13/32"

98 99 13 S4
1000 V

Product Number			Units		Ounces
98 99 13 S4	Safety tool roll				86.6
	98 00 1/4"	Open End Wrench	1	1000 V	
	98 00 5/16"	Open End Wrench	1	1000 V	
	98 00 3/8"	Open End Wrench	1	1000 V	
	98 00 7/16"	Open End Wrench	1	1000 V	
	98 00 1/2"	Open End Wrench	1	1000 V	
	98 00 9/16"	Open End Wrench	1		
	98 00 5/8"	Open End Wrench	1	1000 V	
	98 00 3/4"	Open End Wrench	1		

Product Number			Units		Ounces
98 99 13 S5	Safety tool roll				86.6
	98 00 24	Open End Wrench	1	1000 V	
	98 00 22	Open End Wrench	1	1000 V	
	98 00 19	Open End Wrench	1	1000 V	
	98 00 17	Open End Wrench	1	1000 V	
	98 00 14	Open End Wrench	1	1000 V	
	98 00 13	Open End Wrench	1		
	98 00 10	Open End Wrench	1	1000 V	
	98 00 08	Open End Wrench	1		


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9

Universal Tool Case 48 parts

with insulated tools for working on electrical installations

IEC 60900 ASTM F1505

98 99 14
1000 V

98 99 14

- hard-wearing version made of ABS material, red; containing a range of KNIPEX tools for work on electrical installations, tested according to IEC 60900, as well as additional insulating mats, clamps and gloves
- sturdy aluminum frame with D-shape rings for belt and fix, sturdy center board with multi-purpose push-in facilities by elastic loops and 12 small pockets
- comfortable handle and mounting device for a "trolley" embedded in the bottom (available ordering ref. 00 21 40 T)
- metal hinges
- 66 pounds maximum load
- can be opened on one or both sides; bottom tray and cover can be opened independently
- stands stable in any opening position due to lid-holders and hinge mechanisms on both sides that register in a position of 45° and 90°
- 3-digit lock and 2 clamp-locks for fixation of the lid
- removable document compartment and removable tool board, with 13 push-in compartments on one side

Product Number			Units		Ounces
98 99 14	Universal Tool Case 48 parts				573.2
	03 07 200	8" Combination Pliers	1	1000 V	
	11 17 160	6 1/4" Insulation Stripper	1	1000 V	
	70 07 160	6 1/4" Diagonal Cutter	1	1000 V	
	88 07 250	10" KNIPEX Alligator®	1	1000 V	
	95 17 200	8" Cable Shears	1	1000 V	
	98 00 10	Open End Wrench SW 10 mm	1		
	98 00 13	Open End Wrench SW 13 mm	1		
	98 00 14	Open End Wrench SW 14 mm	1		
	98 00 17	Open End Wrench SW 17 mm	1		
	98 00 19	Open End Wrench SW 19 mm	1		
	98 00 22	Open End Wrench SW 22 mm	1	1000 V	
	98 01 10	Box Wrench SW 10 mm	1		
	98 01 13	Box Wrench SW 13 mm	1		
	98 01 14	Box Wrench SW 14 mm	1		
	98 01 17	Box Wrench SW 17 mm	1		
	98 01 19	Box Wrench SW 19 mm	1		
	98 01 22	Box Wrench SW 22 mm	1		
	98 67 05	Insulating Mat	3	1000 V	
	98 20 25	Screwdriver for slotted screws	1	1000 V	
	98 20 40		1		
	98 20 55		1		
	98 20 65		1		
	98 24 01	Screwdriver for cross-recessed screws, Phillips®	1	1000 V	
	98 24 02		1		
	98 40	T-Handle	1	1000 V	
	98 42	Reversible Ratchet	1		
	98 45 125	Extension Bar 5 in	1	1000 V	
	98 45 250	Extension Bar 10 in	1		
	98 47 10	Hexagon Socket for hexagonal screws SW 10 mm	1		
	98 47 11	Hexagon Socket for hexagonal screws SW 11 mm	1		
	98 47 12	Hexagon Socket for hexagonal screws SW 12 mm	1		
	98 47 13	Hexagon Socket for hexagonal screws SW 13 mm	1		
	98 47 14	Hexagon Socket for hexagonal screws SW 14 mm	1	1000 V	
	98 47 17	Hexagon Socket for hexagonal screws SW 17 mm	1		
	98 47 19	Hexagon Socket for hexagonal screws SW 19 mm	1		
	98 47 22	Hexagon Socket for hexagonal screws SW 22 mm	1		
	98 47 24	Hexagon Socket for hexagonal screws SW 24 mm	1		
	98 52	Cable Knife	1	1000 V	
	98 53 03	Dismantling Knife for round cable	1		
	98 64 02	Insulating Clamp	6	1000 V	
	98 65 40	Electricians' Gloves	1	1000 V	

- 2 tilting locks to fix the middle wall to the bottom
- base tray, height 2 9/32", can be subdivided by flexible inserts; cover plate with 6 large push-in compartments, can be fixed by a snap
- ext. dimensions (W x H x D): 19 19/64 x 10 3/64 x 16 9/64" int. dimensions (W x H x D): 17 33/64 x (4 1/8 + 4 1/8) x 13 25/32"

KNIPEX TwinKey®

for all standard cabinets and shut-off systems

- multifunctional key for the actuation of locking systems from the areas of facilities engineering (heating and sanitation, air-conditioning, electrotechnology), gas and water supply and shut-off systems
- 8-arm version: two 4-way spider keys connected in a space-saving way using magnets
- reversible bit: slot 3/64 x 9/32" and PH 2 cross slot
- key and reversible bit joined by stable stainless steel wire
- quality surface coating
- weight-optimized zinc die cast design

00 11 01

Product Number	inch	inch	inch	inch	inch	Ounces
00 11 01	13/64 15/64 - 9/32 5/16 - 23/64 25/64 - 7/16	9/32 - 5/16 23/64 - 25/64 7/16 - 15/32	1/8 - 13/64	15/64	15/64 - 23/64	4.8

Product Number	mm	mm	mm	mm	mm	Ounces
00 11 01	5 / 6 - 7 / 8 - 9 / 10 - 11	7 - 8 / 9 - 10 / 11 - 12	3 - 5	6	6 - 9	4.8

00 11

Control Cabinet Keys

for all standard cabinets and shut-off systems

00 11 02
short execution, total length 1 3/4"

00 11 03

- for control cabinets and shut-off systems in the supply of gas, water and electricity
- for technical installations in buildings, e.g. air conditioning and ventilation systems, shut-off valves, main switch-boards, etc.
- with bit insert: slot 3/64 x 9/32" and cross recess PH 2
- with adapter for 1/4" bits on securing chain
- additional bit adapter for 1/4" bits in one arm
- zinc die casting

Product Number	↔ inch	↔ mm	inch	mm	inch	mm	inch	mm	Ounces
00 11 02	1 3/4	44	13/64 / 15/64 / 5/16	5 / 6 / 8	23/64	9	1/8-13/64	3-5	2.3
00 11 03	3	76	13/64 / 15/64 / 5/16	5 / 6 / 8	23/64	9	1/8-13/64	3-5	3.1

00 11

Profi-Key

for all standard shut-off systems

00 11 04

- key for heating, air-conditioning, sanitation and building engineering, e.g. for door and window handles or for air bleeding heaters
- with bit insert: slot 3/64 x 9/32" and cross recess PH 2
- with adapter for 1/4" bits on securing chain
- additional bit adapter for 1/4" bits in one arm
- total length: 3 1/2"
- zinc die casting

Product Number	↔ inch	↔ mm	mm	mm	inch	mm	inch	mm	Ounces
00 11 04	3 1/2	90	13/64 / 9/32 / 5/16	5 / 7 / 8	23/64 - 25/64	9 - 10	15/64 / 9/32 / 5/16 / 23/64	6 / 7 / 8 / 9	3.0

00 11

Universal Key

for all standard cabinets and shut-off systems

00 11 06

- for locking systems in electrical engineering, the supply of gas and water, air conditioning and ventilation systems, industry, technical installations in buildings, etc.
- 9 different die cast zinc key profiles in one tool
- with detachable chain and snap hook
- total length: 3 1/2"
- zinc die casting

Product Number	↔ inch	↔ mm	inch	mm	inch	mm	inch	mm	inch	mm	Ounces
00 11 06	3 1/2	90	13/64 / 15/64 / 9/32 - 5/16 / 23/64 - 25/64	5 / 6 / 7 - 8 / 9 - 10	9/32 / 5/16 - 23/64 / 25/64 - 7/16	7 / 8-9 / 10 - 11	1/8-13/64	3-5	15/64	6	7.8

00 11

Pen-Style Control Cabinet Key

for all standard cabinets and shut-off systems

00 11 07

- easy to carry pen-style control cabinet key with fastening clip
- four different key profiles can be utilized by swivelling the key holder
- for control cabinets and shut-off systems in the supply of gas, water and electricity
- for technical installations in buildings, e.g. air conditioning and ventilation systems, shut-off valves, main switch-boards, etc.
- universal 1/4" bit adapter for standard bits (permanent magnet for retaining)
- additional bit adapter for 1/4" bits inside one key profile
- with bit insert: cross recess PH 2 and option of safekeeping a second bit
- tool body: plastic, fiberglass-reinforced
- key profiles: zinc die casting

Product Number	↔ inch	↔ mm	inch	mm	inch	mm	inch	mm	Ounces
00 11 07	5 3/4	145	13/64 / 15/64 / 5/16	5 / 6 / 8	23/64	9	1/8-13/64	3-5	5.4

00 11

Pen-style Profi-Key

for all standard shut-off systems

00 11 08

- easy to carry pen-style control cabinet key with fastening clip
- three different key profiles can be utilized by swivelling the key holder
- multi-purpose wrench for all work on construction sites with profiles for the areas of heating, air conditioning, plumbing and building services engineering, e.g. for door and window handles or for bleeding air from radiators
- universal 1/4" bit adapter for standard bits (permanent magnet for retaining)
- additional bit adapter for 1/4" bits inside one key profile
- with bit insert: cross recess PH 2 and option of safekeeping a second bit
- tool body: plastic, fiberglass-reinforced
- key profiles: zinc die casting

Product Number	↔ inch	↔ mm	inch	mm	inch	mm	inch	mm	Ounces
00 11 08	5 3/4	145	13/64 / 5/16	5 / 8	23/64	9	15/64 / 9/32 / 5/16 / 23/64	6 / 7 / 8 / 9	5.0

00 19

Counter displays

- made from high-quality paperboard printed with high gloss finish

00 19 12 V03

Product Number		Contents	Quantity	Width inch	Width mm	Hight inch	Hight mm	Depth inch	Depth mm	Ounces
00 19 12 V03	87 01 125	KNIPEX Cobra®	12	11 27/64	290.0	11 1/64	280.0	6 19/64	160.0	43.9

00 19

Counter displays 10 parts

- eye-catching packaging with neutral header
- small size, minimum space required at the point of sale
- dimensions, assembled (W x H x D): 8 55/64 x 17 1/8 x 8 55/64"
- dimensions, packed (W x H x D): 10 15/64 x 13 25/32 x 10 15/64"
- other contents (5 + 5 or 10 pieces) with minimum quantity and delivery time on request
- material: sturdy cardboard, printed

00 19 19 V02

Product Number	Equipping	Ounces
00 19 19 V01	10 x 68 01 200	127.3
00 19 19 V02	10 x 87 01 250	125.6
00 19 19 V03	10 x 88 01 180	78.3
00 19 19 V04	10 x 88 01 250	127.3
00 19 19 V08	5 x 86 03 180 / 5 x 86 03 250	154.1
00 19 19 V09	5 x 87 01 180 / 5 x 87 01 250	89.6
00 19 19 V10	5 x 87 01 250 / 5 x 87 01 300	163.8
00 19 19 V11	5 x 88 01 250 / 5 x 88 01 300	161.2
00 19 19 V12	5 x 99 00 250 / 5 x 99 00 280	154.1
00 19 19 V13	10 x 71 01 200	134.7
00 19 19 V15	10 x 88 01 300	196.7
00 19 19 V16	10 x 87 01 180	76.4
00 19 19 V17	10 x 87 01 300	203.4
00 19 19 V18	10 x 99 00 220	111.1
00 19 19 V19	10 x 99 00 250	118.2
00 19 19 V20	10 x 99 00 280	160.5
00 19 19 V21	10 x 99 14 250	123.5
00 19 19 V22	5 x 88 01 180 / 5 x 88 01 250	107.1
00 19 19 V33	5 x 88 01 180 / 5 x 88 01 300	157.9

Circlip Pliers Sets 4 parts

- tool roll made of hard-wearing polyester fabric
- with practical, adjustable quick release fastener

00 19 56
contains 4 Circlip Pliers for internal and external circlips

00 19 57
contains common Precision Circlip Pliers for highest requirements

00 19 56

00 19 57

Product Number			Style	Tips Ø inch	Tips Ø mm	Quantity		Ounces
00 19 56	Set of Circlip Pliers 4 parts							23.6
	44 11 J2	Circlip Pliers	straight tips	3/4 - 2 23/64	19 - 60	1		
	44 21 J21	Circlip Pliers	bent tips	3/4 - 2 23/64	19 - 60	1	90°	
	46 11 A2	Circlip Pliers	straight tips	3/4 - 2 23/64	19 - 60	1		
	46 21 A21	Circlip Pliers	bent tips	3/4 - 2 23/64	19 - 60	1	90°	
00 19 57	Set of Circlip Pliers 4 parts							23.5
	48 11 J1	Precision Circlip Pliers	straight tips	15/32 - 63/64	12 - 25	1		
	48 11 J2	Precision Circlip Pliers	straight tips	3/4 - 2 23/64	19 - 60	1		
	49 11 A1	Precision Circlip Pliers	straight tips	25/64 - 63/64	10 - 25	1		
	49 11 A2	Precision Circlip Pliers	straight tips	3/4 - 2 23/64	19 - 60	1		

00
20

Precision Circlip Pliers Sets

- attractive sales packaging
- contains common Precision Circlip Pliers for highest requirements
- sturdy plastic packaging, also suitable for storage of the pliers

00 20 03 SB

00 20 03 SB
4 parts

00 20 04 SB

00 20 04 SB
8 parts

Product Number		Style	Ø inch	Ø mm	Quantity		Ounces
00 20 03 SB	Precision Circlip Pliers Set						24.2
	48 11 J1	straight tips	15/32 - 63/64	12 - 25	1		
	48 11 J2	straight tips	3/4 - 2 23/64	19 - 60	1		
	49 11 A1	straight tips	25/64 - 63/64	10 - 25	1		
	49 11 A2	straight tips	3/4 - 2 23/64	19 - 60	1		
00 20 04 SB	Precision Circlip Pliers Set						45.0
	48 11 J1	straight tips	15/32 - 63/64	12 - 25	1		
	48 11 J2	straight tips	3/4 - 2 23/64	19 - 60	1		
	49 11 A1	straight tips	25/64 - 63/64	10 - 25	1		
	49 11 A2	straight tips	3/4 - 2 23/64	19 - 60	1		
	48 21 J11	bent tips	15/32 - 63/64	12 - 25	1		
	48 21 J21	bent tips	3/4 - 2 23/64	19 - 60	1		
	49 21 A11	bent tips	15/32 - 63/64	12 - 25	1		
	49 21 A21	bent tips	3/4 - 2 23/64	19 - 60	1		

00
20

Pliers Sets

- popular pliers sets packaged in durable plastic packaging

00 20 05 US00

00 20 06 US1

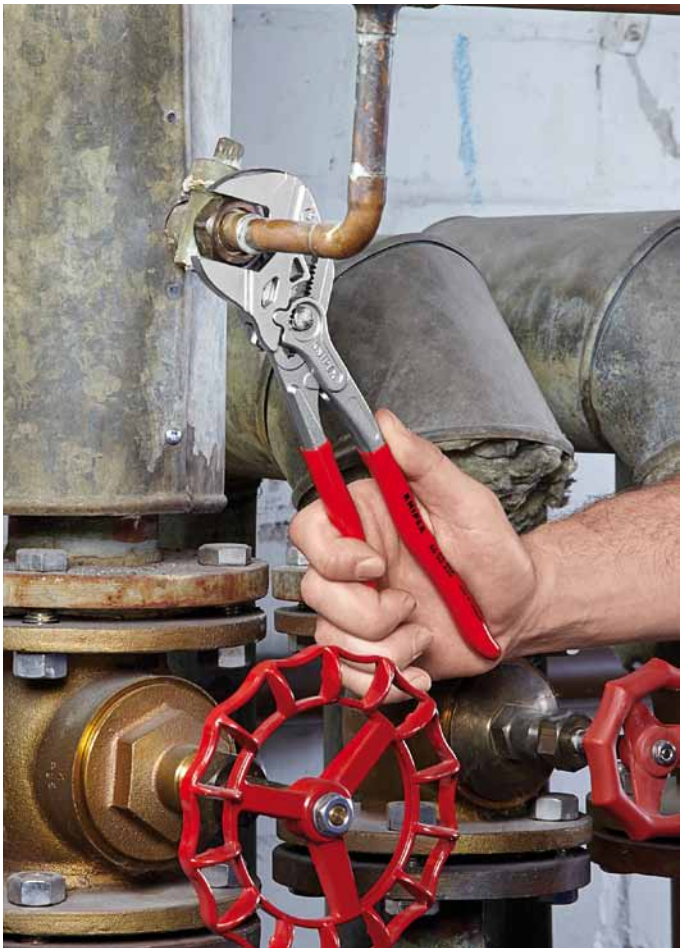
00 20 06 US2

00 20 07 US1

00 20 08 US1

00 20 08 US2

Product Number			↔ inch	↔ mm		Cutting capacities Ø inch	Ø inch	Ø inch	Ø mm	Ø mm	Ø mm	Quantity	Ounces
00 20 05 US	74 01 160	High Leverage Diagonal Cutter	6 1/4	160		1/8	3/32	5/64	3.4	2.5	2.0	1	964
	74 01 250	High Leverage Diagonal Cutter	10	250		3/16	9/64	1/8	4.6	3.5	3.0	1	
	74 21 200	High Leverage Diagonal Cutter	8	200	∡12°	11/64	1/8	3/32	4.2	3.0	2.5	1	
00 20 06 US1	87 01 180	KNIPEX Cobra®	7 1/4	180		1/8	3/32	5/64	3.4	2.5	2.0	1	1211
	87 01 250	KNIPEX Cobra®	10	250		3/16	9/64	1/8	4.6	3.5	3.0	1	
	87 01 300	KNIPEX Cobra®	12	300		1/8	3/32	5/64	3.4	2.5	2.0	1	
00 20 06 US2	86 03 180	KNIPEX Pliers Wrench	7 1/4	180		1/8	3/32	5/64	3.4	2.5	2.0	1	1643
	86 03 250	KNIPEX Pliers Wrench	10	250		3/16	9/64	1/8	4.6	3.5	3.0	1	
	86 03 300	KNIPEX Pliers Wrench	12	300		1/8	3/32	5/64	3.4	2.5	2.0	1	
00 20 07 US1	88 01 180	KNIPEX Alligator®	7 1/4	180		1/8	3/32	5/64	3.4	2.5	2.0	1	1176
	88 01 250	KNIPEX Alligator®	10	250		3/16	9/64	1/8	4.6	3.5	3.0	1	
	88 01 300	KNIPEX Alligator®	12	300		1/8	3/32	5/64	3.4	2.5	2.0	1	
00 20 08 US1	26 11 200	Snipe Nose Side Cutting Pliers	8	200		1/8	3/32	5/64	3.2	2.2	2.0	1	904
	74 21 200	High Leverage Diagonal Cutter	8	200	∡12°	11/64	1/8	3/32	4.2	3.0	2.5	1	
	88 01 250	KNIPEX Alligator®	10	250		1/8	3/32	5/64	3.4	2.5	2.0	1	
00 20 08 US2	26 11 200	Snipe Nose Side Cutting Pliers	8	200		1/8	3/32	5/64	3.2	2.2	2.0	1	909
	74 21 200	High Leverage Diagonal Cutter	8	200	∡12°	11/64	1/8	3/32	4.2	3.0	2.5	1	
	87 01 250	KNIPEX Cobra®	10	250		1/8	3/32	5/64	3.4	2.5	2.0	1	



00 20

Pliers Sets in a foam tray

- packaged in a foam tray for workbenches and tool trolleys
- clearly organized storage of tools
- precisely-sized recesses for holding the pliers
- foam insert dimensions (LxWxH): 13 3/16 x 6 1/2 x 1 19/64"
- material: two color, closed pore foam

00 20 01 V01

00 20 01 V02

00 20 01 V03

00 20 01 V01
4 pliers in a foam tray

00 20 01 V02
6 Circlip Pliers in a foam tray

00 20 01 V03
3 pliers in a foam tray

Product Number			Quantity		Ounces
00 20 01 V01	Pliers Set "Basic" 4 pliers in a foam tray				38.6
	03 05 180	7 1/4" Combination Pliers	1		
	26 15 200	8" Snipe Nose Side Cutting Pliers	1		
	74 05 180	7 1/4" High Leverage Diagonal Cutter	1		
	87 01 250	10" KNIPEX Cobra®	1		
00 20 01 V02	Circlip Pliers Set 6 circlip pliers in a foam tray				32.3
	48 11 J1	Precision Circlip Pliers	1		
	48 11 J2	Precision Circlip Pliers	1		
	48 21 J21	Precision Circlip Pliers	1	90°	
	49 11 A1	Precision Circlip Pliers	1		
	49 11 A2	Precision Circlip Pliers	1		
	49 21 A21	Precision Circlip Pliers	1	90°	
00 20 01 V03	Water Pump Pliers Set 3 pliers in a foam tray				37.6
	85 01 250	10" KNIPEX Auto Adjusting Pliers	1		
	87 41 250	10" KNIPEX Raptor™ Pliers	1		
	87 51 250	10" KNIPEX Cobra® ES	1		

00 20

Pliers Sets

- popular pliers sets packaged in a heavy duty display box
- material: sturdy cardboard packaging, printed

00 20 09 V01

00 20 10

00 20 11

00 20 09 V01
pliers with polished heads; handles with either non-slip plastic coating or with two-color multi-component grips

00 20 10
pliers with polished heads and plastic coated handles

00 20 11
pliers with two-color multi-component grips

Product Number			Quantity		Ounces
00 20 09 V01	Bestseller Pack				33.5
	03 02 180	7 1/4" Combination Pliers	1		
	70 02 160	6 1/4" Diagonal Cutter	1		
	87 01 250	10" KNIPEX Cobra®	1		
00 20 10	Power-Pack				34.9
	02 01 180	7 1/4" High Leverage Combination Pliers	1		
	74 01 160	6 1/4" High Leverage Diagonal Cutter	1		
	87 01 250	10" KNIPEX Cobra®	1		
00 20 11	Assembly Pack				33.0
	03 02 180	7 1/4" Combination Pliers	1		
	26 12 200	8" Snipe Nose Side Cutting Pliers	1		
	70 02 160	6 1/4" Diagonal Cutter	1		

00 20

Compact-Box

4 parts with VDE tools

- contains four popular insulated tools
- high quality, versatile, shock-resistant plastic case
- foam insert
- outside dimensions (H x W x D): 2 9/16 x 12 7/8 x 10 53/64"

00 20 15
1000 V

00 20 15
all pliers VDE tested according to
IEC 60900 and ASTM F1505, pliers finish 6

Product Number			Quantity		Ounces
00 20 15					50.4
	03 06 180	Combination Pliers	1	1000 V	
	11 06 160	Wire Stripper	1	1000 V	
	26 16 200	Snipe Nose Side Cutting Pliers	1	1000 V	
	70 06 160	Diagonal Cutter	1	1000 V	

00 20

Electronics Pliers Sets

for working on electronic components

00 20 16

00 20 17

00 20 16
7 parts, contains 6 Eectronics Pliers and one pair of Precision Tweezers; case made of hard-wearing polyester fabric; pliers are held by elastic band, with zip fastener

00 20 17
6 parts, contains 6 ESD Electronics Pliers, electrically discharging version; case made of hard-wearing polyester fabric; pliers are held by elastic band, with zip fastener

Product Number	Equipping	Ounces
00 20 16	35 12 115 / 35 22 115 / 35 32 115 / 64 32 120 / 77 02 115 / 77 42 115 / 92 34 36	25.4
00 20 17	35 12 115 ESD / 35 22 115 ESD / 35 42 115 ESD / 64 32 120 ESD / 77 02 115 ESD / 77 32 115 ESD	24.5

00 20

KNIPEX Minis in belt pouch

2-piece

- KNIPEX "mini" pliers in a practical tool belt
- made of hard-wearing polyester fabric
- with hook and loop fastener
- with elastic side holder
- with practical belt loop
- Dimensions (W x H x D): 2 49/64 x 6 11/16 x 1 31/32"

00 20 72 V01

Product Number			Quantity		Ounces
00 20 72 V01	KNIPEX Minis in belt pouch 2 parts				12.3
	86 03 150	6" Pliers Wrench	1		
	87 01 125	5" KNIPEX Cobra®	1		

00
21

Tool Box 7 parts

for electrical contractors

- high quality and versatile shock-resistant case
- foam insert
- outside dimensions (H x W x D): 2 9/16 x 12 7/8 x 10 53/64"

00 21 15

00 21 15
all pliers and screwdrivers except
Water Pump Pliers VDE tested according
to IEC 60900 / ASTM F1505

Product Number				Quantity		Ounces
00 21 15	Tool Box 7 parts					53.6
	03 06 180	7 1/4" Combination Pliers	Knipex	1	1000 V	
	26 16 200	8" Snipe Nose Side Cutting Pliers		1	1000 V	
	70 06 160	6 1/4" Diagonal Cutter		1	1000 V	
	88 03 180	7 1/4" KNIPEX Alligator®		1		
	006100	Screwdrivers for slotted screws	Wera	1	1000 V	
	006115			1	1000 V	
	006152	Screwdrivers for cross recessed Phillips screws		1	1000 V	

00 19

Belt Pouch for two pliers

00 19 72 LE

- for two pliers up to 6" length
- made of hard-wearing polyester fabric
- with hook and loop fastener
- with elastic side holder
- with practical belt loop
- pliers not included

Product Number	Width inch	Height inch	Depth inch	Width mm	Height mm	Depth mm	Ounces
00 19 72 LE	2 9/16	6 7/64	1.0	65.0	155.0	25.0	2.3

00 19

Belt Tool Pouch

00 19 73 LE

- made of hard-wearing polyester fabric and leather
- with pockets for up to 8 tools
- tool loops made of leather, riveted
- with snap hook
- pliers not included

Product Number	Width inch	Height inch	Depth inch	Width mm	Height mm	Depth mm	Ounces
00 19 73 LE	6 11/16	9 1/4	2 61/64	170.0	235.0	75.0	7.4

00
21

Tool Case "Big Twin-Move"

with integrated rollers and telescopic handle

empty

00 21 41 LE

- heavy duty ABS material, black
- all around aluminium frame and firmly-mounted sturdy center board, each side offering multi-purpose push-in facilities by elastic loops and 12 small pockets
- pull-out handle embedded in the base and two wheels
- 66 pound maximum load
- can be opened on one or both sides (V form); base tray and cover can be partially or fully opened independently of each other; stands securely in all opening positions; the special wheels are easy on the floor and ensure stability
- lockable
- removable document compartment and removable tool panel with 13 tool pouches
- base tray, height 2 23/64, can be subdivided by flexible inserts; tool panel as cover plate with 13 tool pouches
- dimensions, outside (W x H x D): 20 5/64 x 10 5/8 x 16 9/64"
- dimensions, lid, inside (W x H x D): 18 29/32 x 4 1/8 x 14 37/64"
- dimensions, base, inside (W x H x D): 17 33/64 x 4 1/8 x 13"

Product Number	Dimension external (internal) width inch	height inch	depth inch	width mm	height mm	depth mm	Ounces
00 21 41 LE	20 5/64 (18 29/32 17 33/64)	10 5/8 (4 1/8 4 1/8)	16 9/64 (14 37/64 13)	510 (480 / 445)	270 (105 / 105)	410 (370 / 330)	303.4

00 19

Test Supports

00 19 20

00 19 21 T

00 19 20
for showing the self-locking function of the Alligator® and Cobra® Water Pump Pliers; steady stand, high stability; pliers not included

00 19 21 T
for testing the ratchet-action of the Pliers Wrench; can be fixed on the wall; pliers not included

Product Number	Width inch	Height inch	Depth inch	Width mm	Height mm	Depth mm	Ounces
00 19 20	9 1/16	6 1/2	12 13/64	230.0	165.0	310.0	49.0
00 19 21 T	3 11/32	3 11/32	5 29/32	85.0	85.0	150.0	26.0

00 19

Sales Display

00 19 25

- for 8 x 7 pliers
- solid style; can be adhered to a tool bar or used as a counter display
- with header
- assortment on request
- product detail header available
- pliers not included
- material: sheet steel/steel wire, silver powder coated

Product Number	Width inch	Height inch	Depth inch	Width mm	Height mm	Depth mm	Ounces
00 19 25	19 19/64	15 3/4	12 13/64	490.0	400.0	310.0	146.0

00 19

Magnetic Labels

- to be placed on tool bar systems
- different versions; see table

00 19 30 17

00 19 30 15

00 19 30 18

00 19 30 16

00 19 30 20

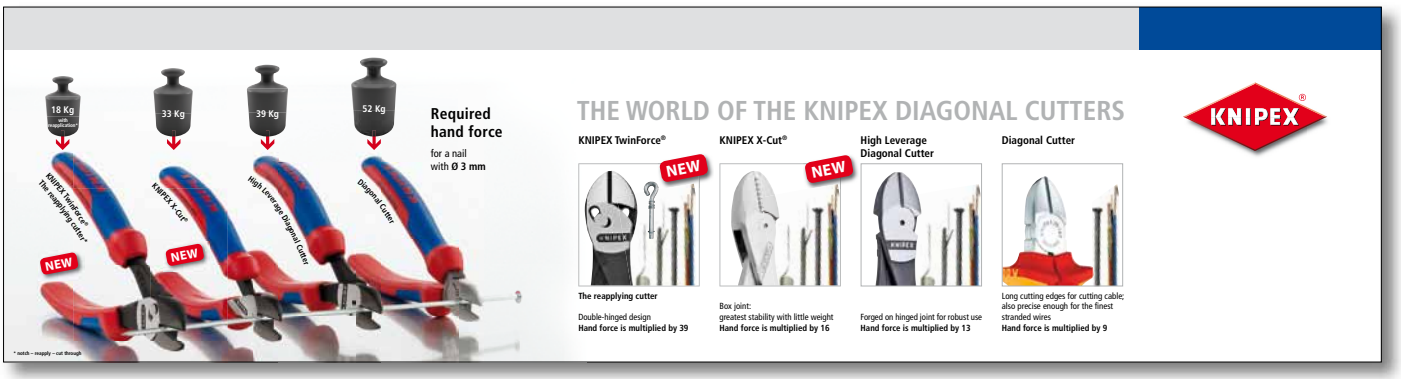
00 19 30 19

Product Number		Width inch	Height inch	Width mm	Height mm
00 19 30 15	KNIPEX Quality – Made in Germany	38 37/64	3 15/16	980	100
00 19 30 16	VDE 1000 Volt	38 37/64	3 15/16	980	100
00 19 30 17	KNIPEX Quality – Made in Germany	25 37/64	3 15/16	650	100
00 19 30 18	VDE 1000 Volt	25 37/64	3 15/16	650	100
00 19 30 19	KNIPEX Quality – Made in Germany	35 7/16	7 7/8	900	200
00 19 30 20	KNIPEX pliers	25 37/64	7 7/8	650	200

"The World of the KNIPEX Diagonal Cutters"

- to be placed on tool bar systems
- versions in different languages available
- dimensions, assembled (W x H): 660 x 170 mm

Product Number		Width inch	Height inch	Width mm	Height mm
L130 00330 EN	English Version	26	6 11/16	660	170
L130 00330 FR	French Version	26	6 11/16	660	170
L130 00330 ES	Spanish Version	26	6 11/16	660	170



L130 00330

00
19

Pliers Racks for tool bar systems

00 19 34 1
for 5 x 6 carded pliers; with header sign

00 19 34 2
for 15 x 6 pliers

00 19 34 1

00 19 34 2

Product Number	Designation	Width inch	Height inch	Depth inch	Width mm	Height mm	Depth mm	⚖ Ounces
00 19 34 1	for 5 x 6 carded pliers	18 57/64	7 7/8	8 55/64	480.0	200.0	225.0	37.6
00 19 34 2	for 15 x 6 pliers	39 11/64	5 23/32	8 15/32	995.0	145.0	215.0	79.4

00 19

Sales Displays

00 19 34 3
for pliers finish 0; 1; 3 or 4

00 19 34 4
for pliers finish 2; 5 or 6

C320 00275

C320 00286

C320 00297

C320 00330

C320 00352

C320 00363

C320 00429

C320 00451

Article No.	EAN 4003773-	Designation	Width inch	Height inch	Depth inch	Width mm	Height mm	Depth mm	⚖ Ounces
00 19 34 3	054450	for 3 x 6 pliers; for pliers finish 0/1/3 or 4	9 29/64	12 39/64	12 13/64	240.0	320.0	310.0	82.5
00 19 34 4	054467	for 3 x 6 pliers; for pliers finish 2/5/8	9 29/64	12 39/64	12 13/64	240.0	320.0	310.0	82.5

C320 00275	054535	Header Precision Circlip Pliers 48/49
C320 00286	054504	Header Concretors' Nippers
C320 00297	054481	Header Cobra®; Pliers Wrenches
C320 00330	054511	Header General Programme
C320 00352	060284	Header Multiple Slip Joint Spanners
C320 00363	060291	Header Self-adjusting Insulation Strippers
C320 00429	062271	Header for 74 12
C320 00451	063032	Header Cobra® ES

02 01 180	20	**12 62 180**	30	**25 21 160**	37	**35 31 115**	45	**44 31 J22**	52	**49 21 A11**	57	**64 42 115**	65
02 01 200	20	**12 69 21**	30	**26 11 200**	38	**35 32 115**	45	**44 31 J32**	52	**49 21 A21**	57	**64 52 115**	65
02 01 225	20	**12 69 23**	30	**26 11 200 S1**	38	**35 42 115**	45	**44 31 J42**	52	**49 21 A31**	57	**64 62 120**	65
02 02 180	20	**12 64 180**	30	**26 18 200 SBA**	38	**35 52 145**	45	**46 11 A0**	53	**49 21 A41**	57	**64 72 120**	65
02 02 200	20	**12 69 31**	30	**26 12 200**	38	**35 62 145**	45	**46 11 A1**	53	**49 31 A0**	57	**64 62 120 ESD**	66
02 02 225	20	**12 80 040 SB**	31	**26 21 200**	38	**35 72 145**	45	**46 11 A2**	53	**49 41 A01**	57	**64 62 120 ESD**	66
02 08 200 SBA	20	**13 01 160**	31	**26 28 200 SBA**	38	**35 82 145**	45	**46 11 A3**	53	**46 10 100**	58	**67 01 140**	67
02 08 225 SBA	20	**13 02 160**	31	**26 22 200**	38	**35 12 115 ESD**	46	**46 11 A4**	53	**50 01 160**	59	**67 01 160**	67
03 01 140	21	**13 01 614**	31	**26 11 200**	38	**35 22 115 ESD**	46	**46 21 A01**	53	**50 01 180**	59	**67 01 200**	67
03 01 180	21	**13 81 8**	32	**26 11 200 S1**	38	**35 42 115 ESD**	46	**46 21 A11**	53	**50 01 210**	59	**68 01 160**	67
03 01 200	21	**13 82 8**	32	**26 18 200 SBA**	38	**36 12 130**	47	**46 21 A21**	53	**50 01 225**	59	**68 01 180**	67
03 01 250	21	**13 88 8**	32	**26 12 200**	38	**36 22 125**	47	**46 21 A31**	53	**50 01 250**	59	**68 01 200**	67
03 02 160	21	**13 81 8**	32	**26 21 200**	38	**36 32 125**	47	**46 21 A41**	53	**50 01 300**	59	**69 01 130**	67
03 02 180	21	**13 82 8**	32	**26 28 200 SBA**	38	**36 12 130**	47	**46 31 A02**	53	**51 01 210**	59	**69 01 130**	67
03 02 200	21	**13 88 8**	32	**26 22 200**	38	**36 22 125**	47	**46 31 A12**	53	**55 00 300**	59	**70 01 110**	69
03 08 160 SBA	21	**15 11 120**	33	**28 01 200**	39	**36 32 125**	47	**46 31 A22**	53	**57 00 360**	60	**70 01 125**	69
03 08 180 SBA	21	**16 20 16 SB**	33	**28 21 200**	39	**37 11 125**	48	**46 31 A32**	53	**99 00 200**	60	**70 01 140**	69
03 08 200 SBA	21	**16 30 135 SB**	33	**29 11 160**	39	**37 21 125**	48	**46 31 A42**	53	**99 00 220**	60	**70 01 160**	69
09 01 240	22	**16 40 150 SB**	34	**29 21 160**	39	**37 31 125**	48	**44 10 J5**	54	**99 00 250**	60	**70 01 180**	69
09 02 240	22	**16 49 150**	34	**31 11 160**	40	**37 43 125**	48	**44 10 J6**	54	**99 00 280**	60	**70 02 125**	69
09 08 240	22	**16 65 125 SB**	34	**31 21 160**	40	**37 11 125**	48	**44 20 J51**	54	**99 00 300**	60	**70 02 140**	69
09 11 240	22	**19 01 130**	35	**31 11 160**	40	**37 21 125**	48	**44 20 J61**	54	**99 01 200**	60	**70 02 160**	69
09 12 240	22	**19 01 130**	35	**31 21 160**	40	**37 31 125**	48	**44 19 J6**	54	**99 01 220**	60	**70 02 180**	69
11 01 160	23	**20 01 125**	35	**30 41 160**	40	**37 43 125**	48	**45 10 170**	54	**99 01 250**	60	**70 08 160 SBA**	69
11 02 160	23	**20 01 140**	35	**30 11 190**	41	**38 11 200**	49	**45 21 200**	54	**99 01 280**	60	**70 08 180 SBA**	69
11 08 160	23	**20 01 160**	35	**30 16 160**	41	**38 21 200**	49	**46 10 A5**	55	**99 01 300**	60	**71 01 200**	71
11 82 130	24	**20 01 200**	35	**30 21 160**	41	**38 31 200**	49	**46 10 A6**	55	**99 10 250**	61	**71 01 200 R SBA**	71
11 92 140	24	**20 06 160**	35	**30 31 140**	41	**38 35 200**	49	**46 20 A51**	55	**99 10 300**	61	**71 02 200**	71
12 21 180	24	**22 01 125**	36	**30 31 160**	41	**38 41 190**	49	**46 20 A61**	55	**99 11 250**	61	**71 12 200**	71
12 29 180	24	**22 01 140**	36	**30 36 160**	41	**38 71 200**	49	**46 11 G0**	55	**99 11 300**	61	**71 21 200**	71
12 12 02	26	**22 01 160**	36	**32 21 135**	42	**38 91 200**	49	**46 11 G1**	55	**99 14 250**	61	**71 22 200**	71
12 12 06	26	**22 01 180**	36	**32 31 135**	42	**40 04 180**	50	**46 11 G2**	55	**99 14 300**	61	**71 31 200**	71
12 12 10	26	**22 02 140**	36	**33 01 160**	42	**40 04 250**	50	**46 11 G3**	55	**61 01 200**	62	**71 31 200 R SBA**	71
12 12 11	26	**22 02 160**	36	**33 03 160**	42	**41 04 180**	50	**46 11 G4**	55	**61 01 200**	62	**71 32 200**	71
12 12 12	26	**22 08 160 SBA**	36	**34 12 130**	43	**41 04 250**	50	**48 11 J0**	56	**62 12 120**	62	**71 41 200**	71
12 19 02	26	**23 01 140**	36	**34 22 130**	43	**41 04 300**	50	**48 11 J1**	56	**62 12 120**	62	**71 72 460**	72
12 19 06	26	**23 01 140**	36	**34 32 130**	43	**41 14 250**	50	**48 11 J2**	56	**64 02 115**	65	**71 72 610**	72
12 19 10	26	**25 01 125**	37	**34 12 130**	43	**41 34 165**	50	**48 11 J3**	56	**64 11 115**	65	**71 72 760**	72
12 19 11	26	**25 01 140**	37	**34 22 130**	43	**44 11 J0**	52	**48 11 J4**	56	**64 12 115**	65	**71 72 910**	72
12 19 12	26	**25 01 160**	37	**34 32 130**	43	**44 11 J1**	52	**48 21 J01**	56	**64 22 115**	65	**71 82 950**	73
12 40 200	28	**25 02 140**	37	**34 12 130 ESD**	44	**44 11 J2**	52	**48 21 J11**	56	**64 32 120**	65	**72 01 140**	74
12 50 200	28	**25 02 160**	37	**34 22 130 ESD**	44	**44 11 J3**	52	**48 21 J21**	56	**64 42 115**	65	**72 01 160**	74
12 49 01	28	**25 08 160 SBA**	37	**34 32 130 ESD**	44	**44 11 J4**	52	**48 21 J31**	56	**64 52 115**	65	**72 01 180**	74
12 49 02	28	**25 21 160**	37	**34 12 130 ESD**	44	**44 21 J01**	52	**48 21 J41**	56	**64 62 120**	65	**72 11 160**	74
12 49 03	28	**25 01 125**	37	**34 22 130 ESD**	44	**44 21 J11**	52	**49 11 A0**	57	**64 72 120**	65	**72 21 160**	74
12 59 01	28	**25 01 140**	37	**34 32 130 ESD**	44	**44 21 J21**	52	**49 11 A1**	57	**64 02 115**	65	**72 51 160**	74
12 59 02	28	**25 01 160**	37	**35 11 115**	45	**44 21 J31**	52	**49 11 A2**	57	**64 11 115**	65	**73 02 160**	75
12 42 195	29	**25 02 140**	37	**35 12 115**	45	**44 21 J41**	52	**49 11 A3**	57	**64 12 115**	65	**73 05 160**	75
12 49 21	29	**25 02 160**	37	**35 21 115**	45	**44 31 J02**	52	**49 11 A4**	57	**64 22 115**	65	**73 06 160**	75
12 49 23	29	**25 08 160 SBA**	37	**35 22 115**	45	**44 31 J12**	52	**49 21 A01**	57	**64 32 120**	65	**73 02 160**	75

73 05 160	75	**77 52 115**	83	**79 22 125 ESD**	91	**87 03 125**	99	**92 08 78 ESD**	115	**97 43 06**	125	**97 52 06**	129
73 06 160	75	**77 72 115**	83	**79 32 125 ESD**	91	**87 03 180**	99	**92 28 69 ESD**	115	**97 49 04**	126	**97 52 09**	129
74 01 140	77	**77 01 115**	83	**79 42 125 ESD**	91	**87 03 250**	99	**92 38 75 ESD**	115	**97 49 05**	126	**97 52 13**	129
74 01 160	77	**77 01 130**	83	**79 52 125 ESD**	91	**87 03 300**	99	**92 58 74 ESD**	115	**97 49 06**	126	**97 52 19**	129
74 01 180	77	**77 02 115**	83	**79 62 125 ESD**	91	**87 05 180**	99	**92 27 61**	115	**97 49 08**	126	**97 52 23**	129
74 01 200	77	**77 12 115**	83	**79 02 120 ESD**	91	**87 05 250**	99	**92 27 62**	115	**97 49 09**	126	**97 49 94**	129
74 01 250	77	**77 22 115**	83	**79 02 125 ESD**	91	**87 05 300**	99	**92 37 64**	115	**97 49 13**	126	**97 49 95**	129
74 02 140	77	**77 22 130**	83	**79 12 125 ESD**	91	**87 01 400**	100	**92 67 63**	115	**97 49 15**	126	**97 51 12**	130
74 02 160	77	**77 42 115**	83	**79 22 120 ESD**	91	**87 01 560**	100	**95 06 230**	116	**97 49 16**	126	**97 59 12**	130
74 02 180	77	**77 42 130**	83	**79 22 125 ESD**	91	**85 01 250 US**	102	**95 11 165**	117	**97 49 18**	126	**97 52 14**	130
74 02 200	77	**77 52 115**	83	**79 32 125 ESD**	91	**87 21 250**	103	**95 12 165**	117	**97 49 19**	126	**97 52 20**	130
74 02 250	77	**77 72 115**	83	**79 42 125 ESD**	91	**87 28 250**	103	**95 18 165 SBA**	117	**97 49 20**	126	**97 59 14**	130
74 08 200	77	**77 02 115 ESD**	84	**79 52 125 ESD**	91	**87 41 250 RAP**	104	**95 21 165**	117	**97 49 23**	126	**97 52 30**	131
74 08 250	77	**77 22 115 ESD**	84	**79 62 125 ESD**	91	**87 51 250**	105	**95 22 165**	117	**97 49 24**	126	**97 52 33**	131
74 12 160	77	**77 42 115 ESD**	84	**81 03 230**	93	**87 51 250**	105	**95 11 200**	117	**97 49 30**	126	**97 52 34**	131
74 12 180	77	**77 02 115 ESD**	84	**81 13 230**	93	**88 01 180**	107	**95 12 200**	117	**97 49 35**	126	**97 52 35**	131
74 21 160	77	**77 22 115 ESD**	84	**81 19 230**	93	**88 01 250**	107	**95 18 200 SBA**	117	**97 49 40**	126	**97 52 36**	131
74 21 180	77	**77 42 115 ESD**	84	**84 11 200**	93	**88 01 300**	107	**95 12 500**	118	**97 49 44**	126	**97 52 37**	131
74 21 200	77	**78 03 125**	87	**84 21 200**	93	**88 02 180**	107	**95 17 500**	118	**97 49 50**	126	**97 52 50**	131
74 21 250	77	**78 23 125**	87	**83 10 010**	94	**88 02 250**	107	**95 31 250**	119	**97 49 54**	126	**97 49 94**	131
74 22 200	77	**78 31 125**	87	**83 10 015**	94	**88 02 300**	107	**95 31 280**	119	**97 49 59**	126	**97 49 95**	131
74 22 250	77	**78 41 125**	87	**83 10 020**	94	**88 07 250**	107	**95 36 250**	119	**97 49 60**	126	**97 52 63 DG**	132
73 71 180	79	**78 61 125**	87	**83 10 030**	94	**88 08 250 SBA**	107	**95 36 280**	119	**97 49 62**	126	**97 52 65**	132
73 72 180	79	**78 71 125**	87	**83 10 040**	94	**90 01 125**	108	**95 32 320**	119	**97 49 64**	126	**97 52 65 DG**	132
73 71 180	79	**78 03 125**	87	**83 20 010**	94	**90 20 185**	109	**95 36 320**	119	**97 49 66 4**	127	**97 59 65 2**	132
73 72 180	79	**78 23 125**	87	**83 20 015**	94	**90 29 185**	109	**95 39 280**	119	**97 49 66 6**	127	**97 53 04**	133
74 91 250	79	**78 31 125**	87	**83 20 020**	94	**90 25 20**	109	**95 32 038**	120	**97 49 69 1**	127	**97 53 14**	133
74 91 250	79	**78 41 125**	87	**83 30 005**	95	**90 29 01**	109	**95 39 038**	120	**97 49 69 2**	127	**97 53 08**	134
75 02 125	80	**78 61 125**	87	**83 30 010**	95	**90 29 02**	109	**95 32 060**	121	**97 49 70**	127	**97 53 09**	134
75 12 125	80	**78 71 125**	87	**83 30 015**	95	**90 29 15**	109	**95 32 100**	121	**97 49 74**	127	**97 61 145 A**	135
75 22 125	80	**78 03 125 ESD**	87	**83 30 020**	95	**90 25 40**	110	**95 39 720**	121	**97 49 76**	127	**97 62 145 A**	135
75 52 125	80	**78 03 125 ESD**	87	**83 30 030**	95	**90 29 40**	110	**95 39 870**	121	**97 49 81**	127	**97 68 145 A**	135
75 02 125	80	**79 02 120**	89	**83 60 010**	95	**90 42 250**	110	**95 61 190**	122	**97 49 82**	127	**97 71 180**	135
75 12 125	80	**79 02 125**	89	**83 60 015**	95	**90 42 340**	110	**95 62 190**	122	**97 49 83**	127	**97 72 180**	135
75 22 125	80	**79 12 125**	89	**86 03 150**	97	**90 49 340**	110	**95 61 150**	123	**97 49 84**	127	**97 91 01**	136
75 52 125	80	**79 22 120**	89	**86 03 180**	97	**90 49 340 M**	110	**95 71 445**	123	**97 49 87**	127	**97 49 62**	136
76 01 125	81	**79 22 125**	89	**86 03 250**	97	**90 55 280**	111	**95 71 600**	123	**97 49 59 1**	127	**97 49 63**	136
76 22 125	81	**79 32 125**	89	**86 03 300**	97	**90 59 280**	111	**95 77 600**	123	**97 49 65 1**	127	**97 49 65**	136
76 81 125	81	**79 42 125**	89	**86 05 150**	97	**90 61 16**	111	**95 71 445**	123	**97 49 66 1**	127	**97 49 65 1**	136
76 01 125	81	**79 02 120**	89	**86 05 180**	97	**90 61 20**	111	**95 71 600**	123	**97 49 68 1**	127	**97 49 65 2**	136
76 22 125	81	**79 02 125**	89	**86 05 250**	97	**90 70 220**	112	**95 77 600**	123	**97 49 69 11**	127	**97 49 66**	136
76 81 125	81	**79 12 125**	89	**86 07 250 SBA**	97	**91 31 180**	112	**95 79 445**	123	**97 49 90**	127	**97 49 66 1**	136
77 01 115	83	**79 22 120**	89	**87 01 125**	99	**91 51 160**	113	**95 79 600**	123	**97 49 93**	127	**97 49 66 4**	136
77 01 130	83	**79 22 125**	89	**87 01 150**	99	**91 71 160**	113	**95 89 600**	123	**97 49 94**	127	**97 49 66 6**	136
77 02 115	83	**79 32 125**	89	**87 01 180**	99	**91 61 160**	113	**97 21 215**	124	**97 49 95**	127	**97 49 67**	136
77 12 115	83	**79 42 125**	89	**87 01 250**	99	**92 22 12**	114	**97 22 240**	124	**97 59 65 2**	127	**97 49 68**	136
77 22 115	83	**79 02 120 ESD**	91	**87 01 300**	99	**92 22 13**	114	**97 32 225**	124	**97 49 65 2**	128	**97 49 68 1**	136
77 22 130	83	**79 02 125 ESD**	91	**87 02 180**	99	**92 22 35**	114	**97 43 200**	125	**97 51 10**	128	**97 49 69 1**	136
77 42 115	83	**79 12 125 ESD**	91	**87 02 250**	99	**92 34 36**	114	**97 43 200 A**	125	**97 59 06**	128	**97 49 69 2**	136
77 42 130	83	**79 22 120 ESD**	91	**87 02 300**	99	**92 70 46**	114	**97 43 05**	125	**97 52 05**	129	**97 49 69 11**	136

97 49 59	136	**97 99 42**	138	**74 08 250 SBA**	146	**98 05 17**	154	**98 37 5/8"**	157	**98 65 03**	161	**00 19 19 V15**	175
97 91 02	137	**97 99 43**	138	**73 06 160**	147	**98 05 19**	154	**98 37 3/4"**	157	**98 65 10**	161	**00 19 19 V16**	175
97 91 02 LE	137	**97 99 44**	138	**73 06 160**	147	**98 04 08**	154	**98 37 1/4"**	157	**98 65 20**	161	**00 19 19 V17**	175
97 99 01	138	**97 99 45**	138	**86 07 250 SBA**	147	**98 04 17**	154	**98 47 10**	157	**98 65 30**	161	**00 19 19 V18**	175
97 99 02	138	**97 99 46**	138	**87 28 250 SBA**	148	**98 04 19**	154	**98 47 11**	157	**98 90**	161	**00 19 19 V19**	175
97 99 03	138	**97 99 47**	138	**88 08 250 SBA**	148	**98 05 13**	154	**98 47 12**	157	**98 98 20 US**	162	**00 19 19 V20**	175
97 99 04	138	**97 99 48**	138	**95 06 230**	149	**98 05 17**	154	**98 47 13**	157	**98 98 21 US**	162	**00 19 19 V21**	175
97 99 05	138	**97 99 49**	138	**95 18 165 SBA**	149	**98 05 19**	154	**98 47 14**	157	**98 98 22 US**	162	**00 19 19 V22**	175
97 99 06	138	**97 99 70**	138	**95 18 200 SBA**	150	**98 07 250**	155	**98 47 16**	157	**98 98 25 US**	163	**00 19 19 V33**	175
97 99 07	138	**97 99 71**	138	**95 17 500**	150	**98 07 250**	155	**98 47 17**	157	**98 98 26 US**	163	**00 19 56**	176
97 99 08	138	**97 99 72**	138	**95 36 250**	151	**98 14 05**	155	**98 47 18**	157	**98 98 27 US**	163	**00 19 57**	176
97 99 09	138	**97 99 73**	138	**95 36 280**	151	**98 14 06**	155	**98 47 19**	157	**98 98 30 US**	164	**00 20 03 SB**	177
97 99 10	138	**97 99 74**	138	**95 39 280**	151	**98 14 08**	155	**98 47 22**	157	**98 98 31 US**	164	**00 20 04 SB**	177
97 99 11	138	**97 99 75**	138	**95 36 320**	151	**98 15 05**	155	**98 47 24**	157	**98 99 11 S3**	165	**00 20 05 US**	179
97 99 12	138	**97 99 76**	138	**95 39 280**	151	**98 15 06**	155	**98 47 27**	157	**98 99 11 S4**	165	**00 20 06 US1**	179
97 99 13	138	**97 99 77**	138	**95 77 600**	152	**98 15 08**	155	**98 47 1/2"**	157	**98 99 11 S5**	166	**00 20 06 US2**	179
97 99 14	138	**97 99 78**	138	**95 77 600**	152	**98 14 05**	155	**98 47 9/16"**	157	**98 99 11 S6**	166	**00 20 07 US1**	179
97 99 15	138	**97 99 79**	138	**95 79 600**	152	**98 14 06**	155	**98 47 5/8"**	157	**98 99 12**	167	**00 20 08 US1**	179
97 99 16	138	**97 99 92**	138	**97 68 145 A**	152	**98 14 08**	155	**98 47 11/16"**	157	**98 99 13**	168	**00 20 08 US2**	179
97 99 17	138	**97 99 93**	138	**98 00 7/16"**	153	**98 15 05**	155	**98 47 3/4"**	157	**98 99 13 S4**	169	**00 20 01 V01**	180
97 99 18	138	**97 99 95**	138	**98 00 1 1/16"**	153	**98 15 06**	155	**98 47 7/8"**	157	**98 99 13 S5**	169	**00 20 01 V02**	180
97 99 19	138	**97 99 96**	138	**98 01 1 1/16"**	153	**98 15 08**	155	**98 47 1"**	157	**98 99 14**	171	**00 20 01 V03**	180
97 99 20	138	**02 08 200 SBA**	142	**98 01 1/2"**	153	**98 30**	156	**98 39 05**	158	**00 11 01**	172	**00 20 09 V01**	181
97 99 21	138	**02 08 225 SBA**	142	**98 01 1/16"**	153	**98 40**	156	**98 39 06**	158	**00 11 01**	172	**00 20 10**	181
97 99 22	138	**03 08 160 SBA**	142	**98 01 3/4"**	153	**98 31**	156	**98 49 05**	158	**00 11 02**	173	**00 20 11**	181
97 99 23	138	**03 08 180 SBA**	142	**98 01 3/8"**	153	**98 41**	156	**98 49 06**	158	**00 11 03**	173	**00 20 15**	181
97 99 24	138	**03 08 200 SBA**	142	**98 01 5/16"**	153	**98 35 125**	156	**98 49 08**	158	**00 11 04**	173	**00 20 16**	182
97 99 25	138	**09 08 240**	143	**98 01 5/8"**	153	**98 35 250**	156	**98 33 25**	158	**00 11 06**	173	**00 20 17**	182
97 99 26	138	**11 08 160 SBA**	143	**98 01 7/16"**	153	**98 45 125**	156	**98 33 50**	158	**00 11 07**	174	**00 20 72 V01**	182
97 99 27	138	**13 88 8**	143	**98 01 7/8"**	153	**98 45 250**	156	**98 43 50**	158	**00 11 08**	174	**00 21 15**	183
97 99 28	138	**20 06 160**	144	**98 01 9/16"**	153	**98 37 10**	157	**98 42**	158	**00 19 12 V01**	175	**00 19 72 LE**	184
97 99 29	138	**22 08 160 SBA**	144	**98 03 04**	154	**98 37 11**	157	**98 52**	159	**00 19 12 V02**	175	**00 19 73 LE**	184
97 99 30	138	**30 16 160**	144	**98 03 05**	154	**98 37 12**	157	**98 54**	159	**00 19 12 V03**	175	**00 21 41 LE**	185
97 99 31	138	**30 36 160**	144	**98 03 08**	154	**98 37 13**	157	**98 53 03**	159	**00 19 19 V01**	175	**00 19 20**	186
97 99 32	138	**25 08 160 SBA**	145	**98 03 10**	154	**98 37 14**	157	**98 53 13**	159	**00 19 19 V02**	175	**00 19 21 T**	186
97 99 33	138	**25 08 160 SBA**	145	**98 03 04**	154	**98 37 16**	157	**98 55**	159	**00 19 19 V03**	175	**00 19 25**	186
97 99 34	138	**26 18 200 SBA**	145	**98 03 05**	154	**98 37 17**	157	**98 56**	160	**00 19 19 V04**	175	**00 19 30 15**	187
97 99 35	138	**26 28 200 SBA**	145	**98 03 08**	154	**98 37 19**	157	**98 56 09**	160	**00 19 19 V08**	175	**00 19 30 16**	187
97 99 36	138	**26 18 200 SBA**	145	**98 03 10**	154	**98 37 5/16"**	157	**98 62 01**	160	**00 19 19 V09**	175	**00 19 34 1**	187
97 99 37	138	**26 28 200 SBA**	145	**98 04 08**	154	**98 37 3/8"**	157	**98 62 02**	160	**00 19 19 V10**	175	**00 19 34 2**	187
97 99 38	138	**70 08 160 SBA**	146	**98 04 17**	154	**98 37 7/16"**	157	**98 64 02**	160	**00 19 19 V11**	175	**00 19 34 4**	188
97 99 40	138	**70 08 180 SBA**	146	**98 04 19**	154	**98 37 1/2"**	157	**98 65 01**	161	**00 19 19 V12**	175		
97 99 41	138	**74 08 200 SBA**	146	**98 05 13**	154	**98 37 9/16"**	157	**98 65 02**	161	**00 19 19 V13**	175		

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