

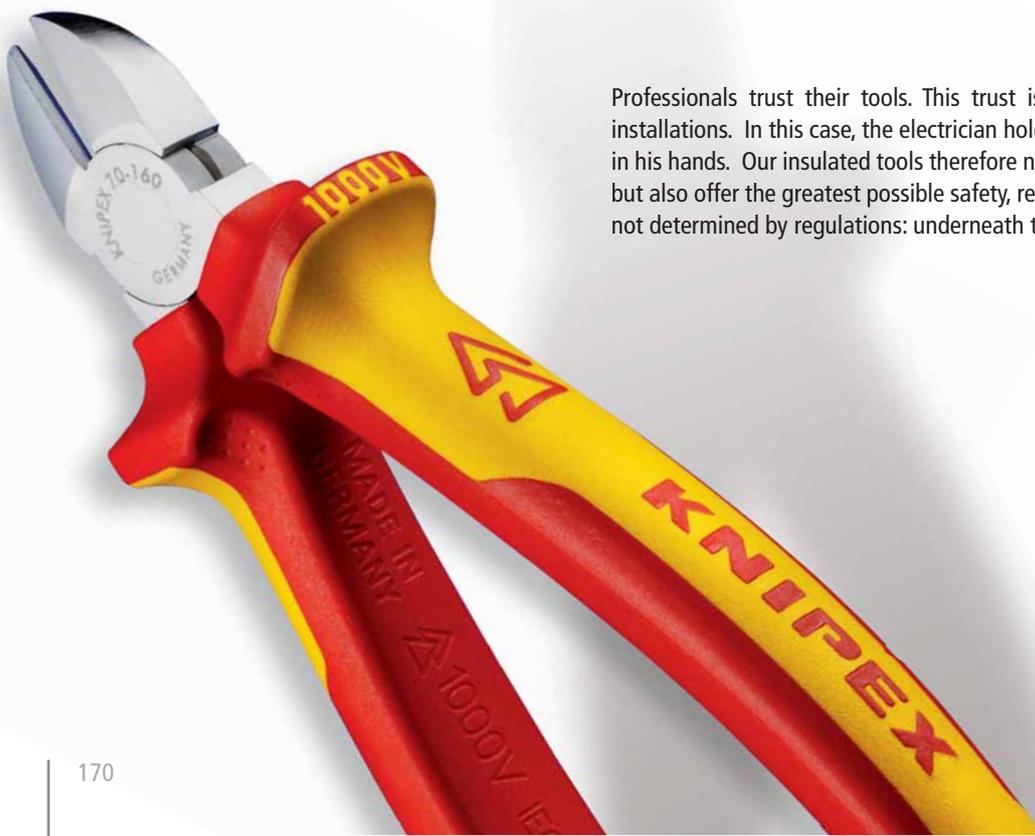
Testing the adhesion of the insulating coating at 500 N.



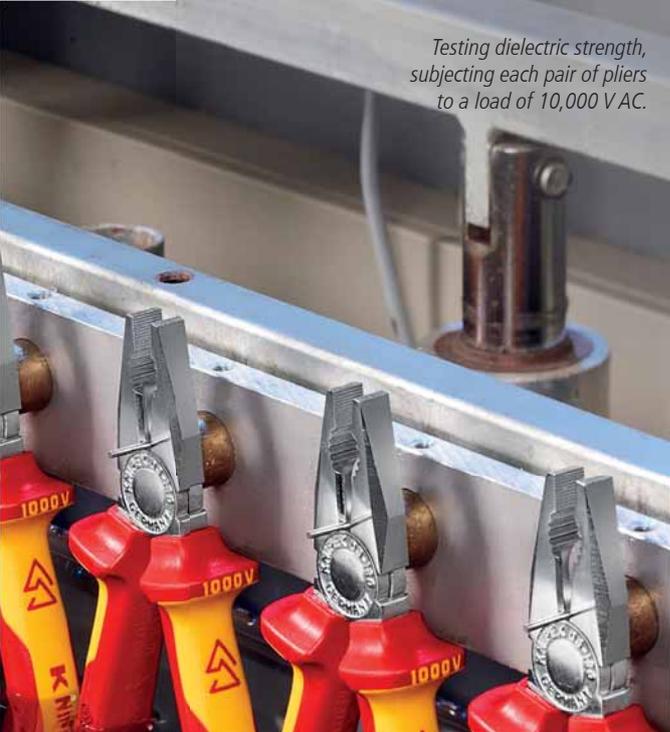
Testing the electrical insulating properties.

INSULATED TOOLS ARE A MATTER OF TRUST

Professionals trust their tools. This trust is vital when working on electrical installations. In this case, the electrician holding the pliers is also holding his life in his hands. Our insulated tools therefore not only meet statutory requirements, but also offer the greatest possible safety, reliability and performance in the area not determined by regulations: underneath the insulation.



Testing dielectric strength, subjecting each pair of pliers to a load of 10,000 V AC.



Pressure test at 70°C.



Low temperature impact test at -25°C.



Regulated by standards

Only trained professionals are allowed to work on live installations. Such work is subject to strict occupational health and safety standards such as the German DIN VDE 0105 and the international EN 50110 and IEC 60364. In each case they must deploy special tools that have been specifically manufactured and tested for this work.

Which requirements have to be met by tools used in live work is determined by DIN EN / IEC 60900. KNIPEX tools which bear the special mark **1000V** are approved for work up to 1000 V AC.

Guaranteed individually checked

Every insulated tool undergoes, one by one, a dielectric strength at 10,000 V AC before we sell it. This means that work in the area up to 1,000 V AC has a safety buffer of ten times the permitted maximum limit. Other procedures check the reliability of the insulation towards heat, cold, tensile and impact force. In addition to the KNIPEX quality assurance team, external institutes and test centres such as the VDE guarantee that all VDE criteria have been satisfied.

We go through this effort to safeguard the user. He trusts his well-being with our pliers, day in and day out. In return we want to give him the best possible safety at all times. We stand by this responsibility with our name on the insulation of KNIPEX tools.

Strong beneath the insulation

The insulation provides safety when handling electrical installations, but it does not cut, grip or crimp. The mechanical properties of the basic tool, such as cutting performance, precision and stability, therefore form part of the overall quality of insulated tools.

With our insulated pliers, users can depend on the quality and durability of products from KNIPEX production. For assembly tools insulated by us, we use basic tools from tried and tested suppliers whose quality we subject to regular, stringent checks. The expert can rely on this double dependability of tool and insulation.



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

- Insulated tools must be transported in a manner that will prevent any damage to the insulation.
- Check before every use whether the insulation is damaged in 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 live equipment.
- Make sure the workplace is clean and orderly, particularly when you are working on live installations.
- Wear protective clothing and use SAFETY equipment (e.g. insulating gloves, insulating mats, protective covers) especially in confined working spaces.
- Use only a tool with suitable dimensions. 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.

01

Combination Pliers Chrome Vanadium

DIN ISO 5746 IEC 60900 DIN EN 60900



01 06 190



- for heaviest duty
- with gripping zones for flat and round material, suitable for versatile use
- with cutting edges for soft, hard and piano wire
- long cutting edges for thicker cables
- cutting edges additionally induction hardened, cutting edge hardness approx. 64 HRC
- particularly wear resistant gripping jaws; hardness of the gripping jaws approx. 53 HRC
- Chrome vanadium heavy-duty steel, forged, oil-hardened

Article No.	EAN 4003773-	↔ mm	Pliers	Handles	Cutting capacities				⚖ g
					∅ mm	∅ mm	∅ mm	mm ²	
01 06 160	040729	160	chrome plated	insulated with multi-component grips, VDE-tested	2.0	1.5	10.0	16	201
01 06 190	040415	190			2.5	2.0	13.0	25	320

02

High Leverage Combination Pliers

DIN ISO 5746 IEC 60900 DIN EN 60900



02 06 180



02 07 225



- 35 % less effort required than with conventional combination pliers
- easier work due to optimised leverage
- with cutting edges (hardness approx. 63 HRC) for soft and hard wire and piano 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

Article No.	EAN 4003773-	↔ mm	Pliers	Handles	Cutting capacities				⚖ g
					∅ mm	∅ mm	∅ mm	mm ²	
02 06 180	010012	180	chrome plated	insulated with multi-component grips, VDE-tested	2.5	2.0	11.5	16	247
02 06 200	010029	200			2.8	2.2	13.0	25	343
02 06 225	010036	225			3.0	2.5	14.0	25	401
02 07 200	022299	200	chrome plated	with dipped insulation, VDE-tested	2.8	2.2	13.0	25	380
02 07 225	022305	225			3.0	2.5	14.0	25	486

03

Combination Pliers

DIN ISO 5746 IEC 60900 DIN EN 60900



03 06 180
 ⚡ 1000V



03 07 200
 ⚡ 1000V

- 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 edges additionally induction hardened, cutting edge hardness approx. 60 HRC
- Special tool steel, forged, oil-hardened

Article No.	EAN	↔ mm	Pliers	Handles	Cutting capacities				g	
					Ø mm	Ø mm	Ø mm	mm ²		
03 06 160	021902	160	chrome plated	insulated with multi-component grips, VDE-tested	3.1	2.0	10.0	16	228	
03 06 180	021926	180			⚡ 1000V	3.4	2.2	12.0	16	264
03 06 200	033776	200			3.8	2.5	13.0	16	326	
03 07 160	015307	160	chrome plated	with dipped insulation, VDE-tested	3.1	2.0	10.0	16	254	
03 07 180	015314	180			⚡ 1000V	3.4	2.2	12.0	16	285
03 07 200	015321	200			3.8	2.5	13.0	16	339	
03 07 250	015345	250			3.8	2.5	15.0	25	597	

11

Insulation Strippers IEC 60900 DIN EN 60900



11 06 160
 ⚡ 1000V



11 07 160
 ⚡ 1000V

- for single, multiple and fine stranded conductors with plastic or rubber insulation max. 5.0 mm dia. or resp. 10 mm² cable cross section
- easy adjustment to the required diameter of solid or stranded wire with knurled screw and lock nut
- Special tool steel, forged, oil-hardened



Article No.	EAN	↔ mm	Pliers	Handles	Stripping capacities			g
					Ø mm	mm ²	AWG	
11 06 160	021933	160	⚡ 1000V	insulated with multi-component grips, VDE-tested	5.0	10	7	166
11 07 160	015499	160	⚡ 1000V	with dipped insulation, VDE-tested	5.0	10	7	180
11 17 160	015505	160	⚡ 1000V	with dipped insulation, VDE-tested	5.0	10	7	181

13

Pliers for Electrical Installation

The all-rounder for professionals

IEC 60900 DIN EN 60900



13 86 200



13 96 200



Multifunctional pliers for the electrical installation; to grip flat and round material, for bending, deburring, cutting cable, stripping and crimping end sleeves (ferrules)

6 functions in one pair of pliers

- smooth surfaces near the tips grip single cores 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 conductors of 0.75 - 1.5 mm² and 2.5 mm²
- crimp die for wire-end ferrules 0.5 - 2.5 mm²
- cable shears with (induction-hardened) precision cutting edges for copper and aluminium cables up to 5 x 2.5 mm² / dia. 15 mm
- gripping, without opening the pliers completely (intelligent latching mechanism in the spring assisted version). The cutting edge remains closed and protected
- slim dimensions for easy access
- bolted joint: precise, zero backlash operation of pliers
- High-grade special tool steel, forged, oil-hardened

13 96 200

the activated locking lever keeps the cutting edges closed while other functions remain in place; the intelligent latching mechanism enables you to "grip" without opening the pliers. The cutting edge remains closed and protected.



Article No.	EAN	↔ mm	Pliers	Handles	Cutting capacities		Stripping capacity for cross-sections mm ²	Capacity mm ²	⚖ g
					Ø mm	mm ²			
13 86 200	075097	200	chrome plated	insulated with multi-component grips, VDE-tested	15	50	0.75 - 1.5 + 2.5	0.5 - 2.5	280
13 96 200	075110	200	chrome plated	insulated with multi-component grips, VDE-tested	15	50	0.75 - 1.5 + 2.5	0.5 - 2.5	280

20

Flat Nose Pliers

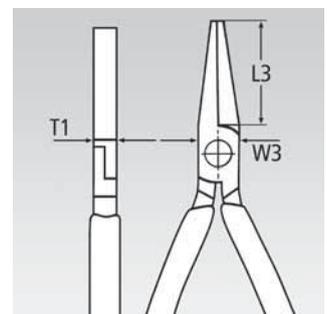
DIN ISO 5745 IEC 60900 DIN EN 60900



20 06 160



- short, flat jaws
- knurled gripping surfaces
- Chrome vanadium electric steel, forged, oil-hardened



Article No.	EAN	↔ mm	Pliers	Handles	Dimensions			⚖ g
					L3 mm	W3 mm	T1 mm	
20 06 160	033783	160	1000V	insulated with multi-component grips, VDE-tested	30.0	17.0	9.5	176

14

Diagonal Insulation Stripper

IEC 60900 DIN EN 60900



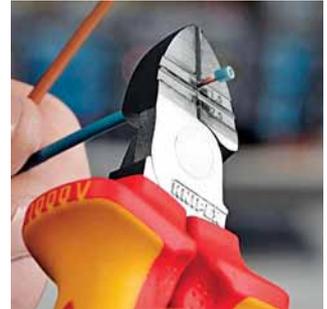
14 26 160



With elongated cutting edge

Improved transmission ratio for 25 % more cutting performance

- precision stripping holes for single conductors of 1.5 and 2.5 mm²
- convenient cutting of NYM cables up to 5 x 2.5 mm²
- long tips for ultra fine cutting work also in confined areas
- induction hardened precision blades, cutting edge hardness approx. 60 HRC
- Vanadium electric steel; forged, oil-hardened



Article No.	EAN 4003773-	↔ mm	1000V	Pliers	Handles	Stripping capacities mm ²	AWG	Cutting capacities		
								Ø mm	Ø mm	g
14 26 160	040279	160	1000V	chrome plated	insulated with multi-component grips, VDE-tested	1.5 + 2.5	15 + 13	2,5	1,5	216

22

Round Nose Pliers

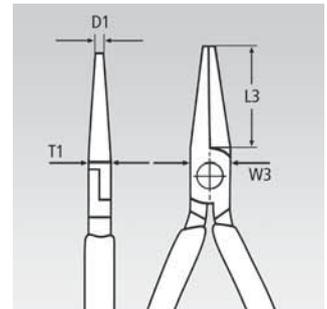
DIN ISO 5745 IEC 60900 DIN EN 60900



22 06 160



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



Article No.	EAN 4003773-	↔ mm	1000V	Pliers	Handles	Dimensions				
						L3 mm	W3 mm	D1 mm	T1 mm	g
22 06 160	033790	160	1000V	chrome plated	insulated with multi-component grips, VDE-tested	30.0	18.0	3.0	9.5	175

25

Snipe Nose Side Cutting Pliers

Radio Pliers

DIN ISO 5745 IEC 60900 DIN EN 60900

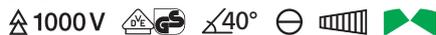
- suitable for finer gripping and cutting work
- pointed, half-round jaws
- knurled gripping surfaces
- with cutting edges for medium hard and hard wire
- cutting edges additionally induction hardened, cutting edge hardness approx. 61 HRC
- Vanadium electric steel; forged, oil-hardened



25 06 160



25 26 160



Article No.	EAN 4003773-	↔ mm	Icons	Pliers	Handles	Cutting capacities		Dimensions						
						∅ mm	∅ mm	L3 mm	L4 mm	W3 mm	T1 mm	W4 mm	T2 mm	g
25 06 160	033806	160	⚡ 1000V, GS, 1000V, 40°, ⊖, ⚙, ⚡	chrome plated	insulated with multi-component grips, VDE-tested	2.5	1.6	50.0		16.5	9.0	3.0	2.5	146
25 26 160	052111	160	⚡ 1000V, GS, 40°, ⊖, ⚙, ⚡	chrome plated	insulated with multi-component grips, VDE-tested	2.5	1.6	50.0	23.0	16.5	9.0	3.0	2.5	144

26

Snipe Nose Side Cutting Pliers

Stork Beak Pliers

DIN ISO 5745 IEC 60900 DIN EN 60900

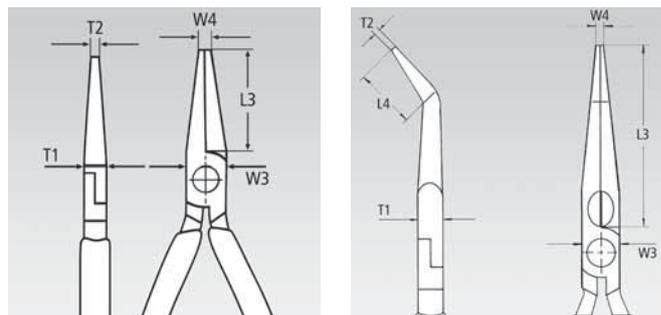
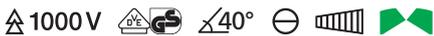
- high loadable, elastic precision points
- half-round, long jaws
- knurled gripping surfaces
- with cutting edges for medium hard wire max. dia. 3.2 mm and hard wire max. dia. 2.2 mm
- cutting edges additionally induction hardened, cutting edge hardness approx. 61 HRC
- Vanadium electric steel; forged, oil-hardened



26 16 200



26 27 200



Article No.	EAN 4003773-	↔ mm	Icons	Pliers	Handles	Cutting capacities		Dimensions						
						∅ mm	∅ mm	L3 mm	L4 mm	T1 mm	W3 mm	W4 mm	T2 mm	g
26 16 200	022831	200	⚡ 1000V, GS, 1000V, 40°, ⊖, ⚙, ⚡	chrome plated	insulated with multi-component grips, VDE-tested	3.2	2.2	73.0		9.5	17.5	3.0	2.5	206
26 17 200	016069	200	⚡ 1000V, GS, 1000V, 40°, ⊖, ⚙, ⚡	chrome plated	with dipped insulation, VDE-tested	3.2	2.2	73.0		9.5	17.5	3.0	2.5	212
26 26 200	022855	200	⚡ 1000V, GS, 40°, ⊖, ⚙, ⚡	chrome plated	insulated with multi-component grips, VDE-tested	3.2	2.2	73.0	23.0	9.5	17.5	3.0	2.5	204
26 27 200	016090	200	⚡ 1000V, GS, 40°, ⊖, ⚙, ⚡	chrome plated	with dipped insulation, VDE-tested	3.2	2.2	73.0	23.0	9.5	17.5	3.0	2.5	220

30

Long Nose Pliers

DIN ISO 5745 IEC 60900 DIN EN 60900

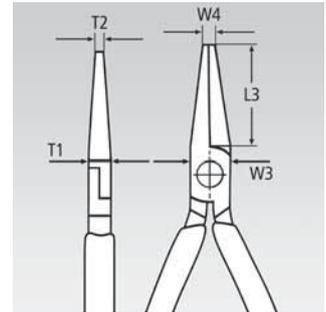


30 16 160
 ⚡ 1000V

- heavy duty and wear resisting
- different jaw styles
- Chrome vanadium electric steel, forged, oil-hardened

Style 1
 long, trapezoidal jaws;
 knurled gripping surfaces

Style 3
 long, round jaws;
 smooth gripping surfaces



Article No.	EAN 4003773-	↔ mm		Style	Pliers	Handles	Dimensions					g
							L3 mm	W3 mm	T1 mm	W4 mm	T2 mm	
30 16 160	001904	160	⚡ 1000V	1	chrome plated	insulated with multi-component grips, VDE-tested	46.5	16.5	9.5	3.0	5.0	150
30 36 160	002123	160	⚡ 1000V	3	chrome plated	insulated with multi-component grips, VDE-tested	41.0	16.5	9.5	5.0	2.5	141

70

Diagonal Cutters

DIN ISO 5749 IEC 60900 DIN EN 60900

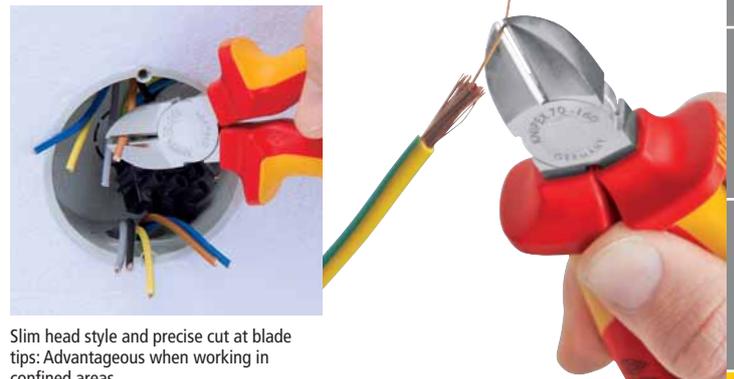


70 06 160
 ⚡ 1000V



70 07 160
 ⚡ 1000V

- the indispensable diagonal cutter for all-round use
- high quality material and precise workmanship for long service life
- precision cutting edges for soft and hard wire
- clean cutting of thin copper wires, also at the cutting-edge tips
- cutting edges additionally induction hardened, cutting edge hardness approx. 62 HRC
- narrow head style for use in confined areas
- Vanadium electric steel; forged, oil-hardened



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

Article No.	EAN 4003773-	↔ mm		Pliers	Handles	Cutting capacities			g
						Ø mm	Ø mm	Ø mm	
70 06 125	018124	125				3.0	2.3	1.5	121
70 06 140	040293	140				4.0	2.5	1.8	160
70 06 160	021995	160	⚡ 1000V	chrome plated	insulated with multi-component grips, VDE-tested	4.0	2.8	2.0	216
70 06 180	033813	180				4.0	3.0	2.5	254
70 07 160	018155	160				4.0	2.8	2.0	227
70 07 180	018179	180	⚡ 1000V	chrome plated	with dipped insulation, VDE-tested	4.0	3.0	2.5	269
70 26 160	018223	160	⚡ 1000V	chrome plated	insulated with multi-component grips, VDE-tested	4.0	1.6		216

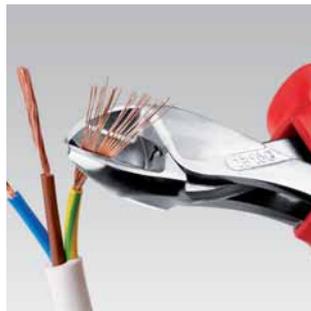
73

KNIPEX X-Cut® Compact Diagonal Cutters

DIN ISO 5749 IEC 60900 DIN EN 60900



73 06 160



40 % less effort required compared to diagonal cutters of the same length. With double mounted hinged joint.



Compact and 20 % less weight. Powerful and precise

Cuts finest strands as well as multi-core cables and piano wires

- box-joint design: highest stability with low weight
- doubly supported joint axis for heaviest duty
- high cutting capacity with very little effort thanks to the optimum coordination of cutting-edge angle and leverage ratio with laterally staggered pivot point
- large opening width for thicker cables
- cuts precisely, even through fine copper wires
- compact, low-weight construction
- universally usable, in the assembly, maintenance and production
- Chrome vanadium heavy-duty steel, forged, oil-hardened

Article No.	EAN 4003773-	↔ mm	Pliers	Handles	Cutting capacities					g
					Ø mm	Ø mm	Ø mm	Ø mm	Ø mm	
73 06 160	075141	160	chrome plated	insulated with multi-component grips, VDE-tested	4.8	3.8	2.7	2.2	12.0	175

74

High Leverage Diagonal Cutters

DIN ISO 5749 IEC 60900 DIN EN 60900



74 06 200



74 07 200



20 % less effort required compared to conventional diagonal cutters of the same length. With integrated forged joint axle.



- with integrated forged axle for heaviest duty
- suitable for all types of wire including piano wire
- high cutting performance with minimum effort due to optimum co-ordination of the cutting edge angle and transmission ratio
- precision cutting edges additionally induction-hardened, cutting edge hardness approx. 64 HRC
- Chrome vanadium heavy-duty steel, forged, oil-hardened

Length 250 mm

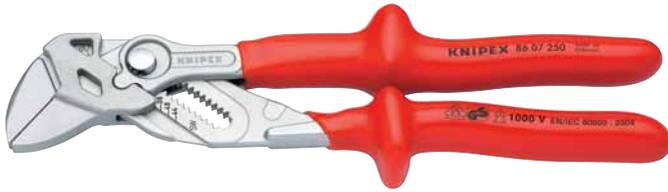
the 250-mm-long diagonal cutter is suitable for copper conductors up to 16 mm² and aluminium conductors up to 35 mm²

Article No.	EAN 4003773-	↔ mm	Pliers	Handles	Cutting capacities			g
					Ø mm	Ø mm	Ø mm	
74 06 160	040705	160	chrome plated	insulated with multi-component grips, VDE-tested	3.4	2.5	2.0	215
74 06 180	022985	180			3.8	2.7	2.2	280
74 06 200	033820	200			4.2	3.0	2.5	308
74 06 250	041955	250			4.6	3.5	3.0	453
74 07 200	018414	200			chrome plated	with dipped insulation, VDE-tested	4.2	3.0
74 07 250	018421	250	4.6	3.5			3.0	510

86
07

Pliers Wrench insulated

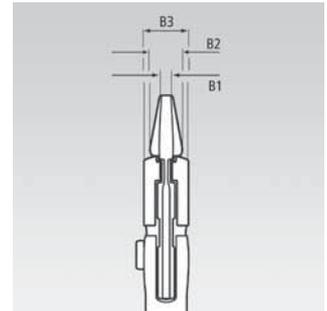
IEC 60900 DIN EN 60900



86 07 250



- pliers and a wrench in a single tool
- also excellent for gripping, holding, pressing and bending workpieces
- zero backlash jaw pressure prevents damage to edges of sensitive and soft nuts (Cu)
- with scale for presetting the opening width apart from the workpiece
- no unintentional shift of the gripping jaws and no slipping of the joint
- parallel jaws give a more solid grip; the construction gives infinite adjustment of all widths up to the specified maximum size
- the action of the jaws allows quick tightening and release of bolted connections using the ratchet principle
- lever transmission greater than 10 : 1 for strong gripping power
- Chrome vanadium electric steel, forged, oil-hardened



Scale for setting the opening width, apart from the workpiece

Article No.	EAN	↔ mm	Safety icons	Pliers	Handles	Hexagon Inch	Hexagon mm	Adjustment positions	Dimensions			g
									B1 mm	B2 mm	B3 mm	
86 07 250	065067	250	⚡ 1000V ⚡ ⚡ ⚡	nickel plated	with dipped insulation, VDE-tested	1 3/4	46	17	8.0	8.0	14.0	615

88

KNIPEX Alligator® Water Pump Pliers

DIN ISO 8976 IEC 60900 DIN EN 60900



88 06 250



88 07 250



- more output and comfort compared to conventional water pump pliers of the same length: 9-notch adjustment positioning for 30 % more gripping capacity
- 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 stable gripping
- box-joint design: high stability because of the double guide



- guard prevents operators' fingers being pinched
- Chrome vanadium electric steel, forged, oil-hardened

Article No.	EAN	↔ mm	Safety icons	Pliers	Handles	Circle Inch	Circle mm	Hexagon mm	Adjustment positions	g
88 06 250	039303	250	⚡ 1000V ⚡ ⚡ ⚡	chrome plated	insulated with multi-component grips, VDE-tested	2	50	46	9	374
88 07 250	019343	250	⚡ 1000V ⚡ ⚡ ⚡	chrome plated	with dipped insulation, VDE-tested	2	50	46	9	420
88 07 300	022350	300	⚡ 1000V ⚡ ⚡ ⚡	chrome plated		2 3/4	70	60	9	661

87
26

KNIPEX Cobra® VDE

Hightech Water Pump Pliers, insulated

DIN ISO 8976 IEC 60900 DIN EN 60900



87 26 250



The adjustment procedure to adapt to the workpiece is easy and reliable with the KNIPEX Cobra® VDE: place the upper gripping jaw of the opened pliers on the workpiece, push pliers handle to close, done!

- adjustment by shifting one jaw directly on to the workpiece: fast, reliable and comfortable handling
- opening at the touch of a button apart from the workpiece
- fine adjustment to fit very different workpiece sizes with a comfortable handle 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 stable gripping
- box-joint design: high stability because of the double guide
- guard prevents operators' fingers being pinched
- Chrome vanadium electric steel, forged, oil-hardened



Quick setting without using a push-button



Just push the pliers handle to adjust!

1000 V



Article No.	EAN	↔ mm		Pliers	Handles	∅ Inch	∅ mm	∅ mm	Adjustment positions	g
87 26 250	071495	250		chrome plated	insulated with multi-component grips, VDE-tested	2	50	46	24	340