



KNIPEX INNOVATIONS



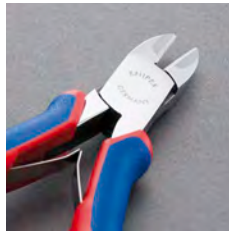
2012
2013

KNIPEX Quality – Made in Germany

INNOVATIONS2013



Diagonal
Insulation
Strippers



Electronics
Diagonal Cutters
with inserted carbide
metal cutting edges



Crimp Assortments
in a TANOS
MINI-systainer®



Diagonal Cutter
for plastics



KNIPEX eCrimp



Dismantling Tools



Alligator® XL

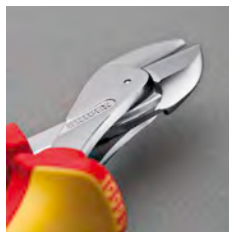


Crimping Pliers

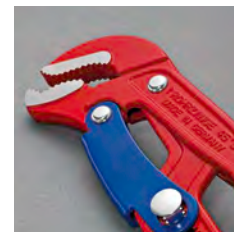
INNOVATIONS2012



TwinForce®



X-Cut®



Pipe Wrench
S-Type



TwinKey®



Cable Cutter



Magnetic
LED Lamp



Installation
Pliers



Circlip Tool

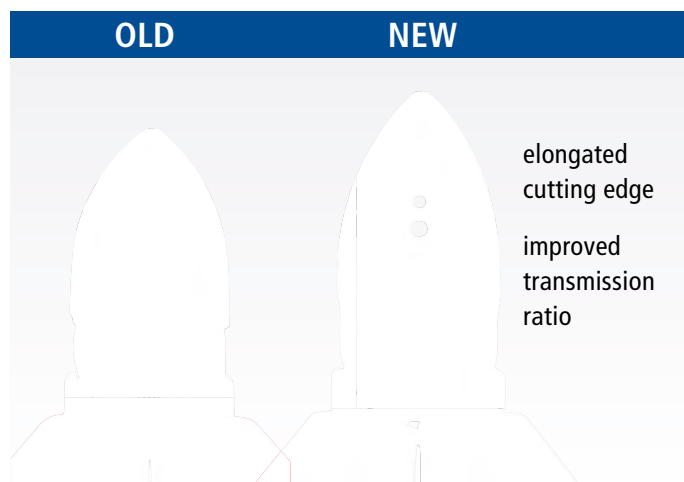
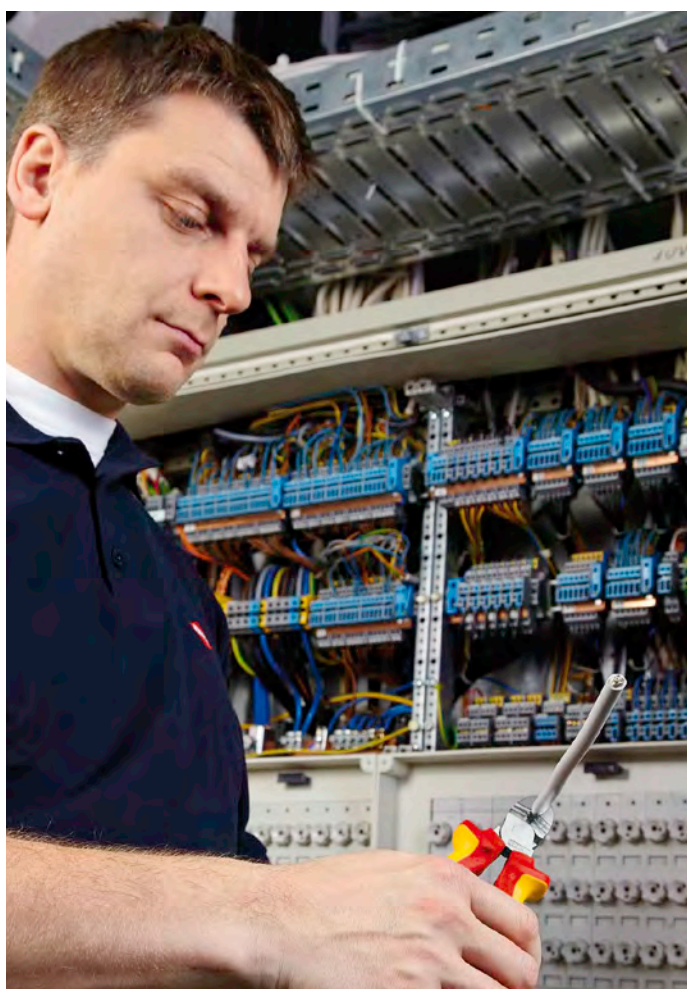


Diagonal Insulation Strippers

NEW: with elongated cutting edge

NEW: 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	Pliers	Head	Handles	Stripping capacities mm ²	AWG	Cutting capacities		⚖ g
								⊙ Ø mm	⊙ Ø mm	
14 22 160	034988	160	black atramentized	polished	with multi-component grips	1.5 + 2.5	15 + 13	2.5	1.5	206
14 25 160	028697	160	chrome plated		with multi-component grips	1.5 + 2.5	15 + 13	2.5	1.5	206
14 26 160	040279	160	⚡ 1000 V ⚡ GS		insulated with multi-component grips, VDE-tested	1.5 + 2.5	15 + 13	2.5	1.5	216

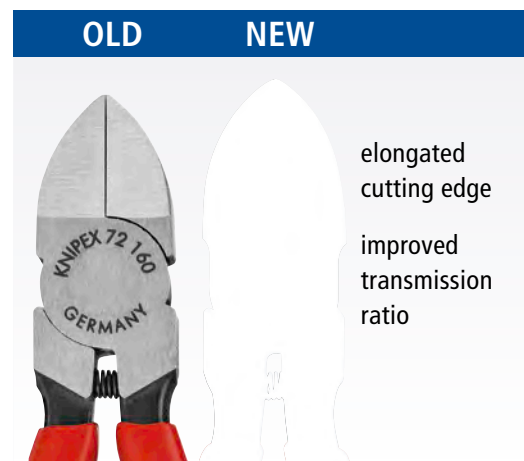


Diagonal Cutter for plastics

NEW: elongated cutting edge

NEW: improved transmission ratio for 25 % more cutting performance

- cutting face flush ground
- for nearly flush cutting of moulded plastic components from sprues
- cuts soft materials such as lead in a flush cut
- with opening spring
- Vanadium electric steel; forged, oil-hardened



Article No.	EAN 4003773-	↔ mm		Head	Handles	g
72 01 160	041245	160		polished	plastic coated	164

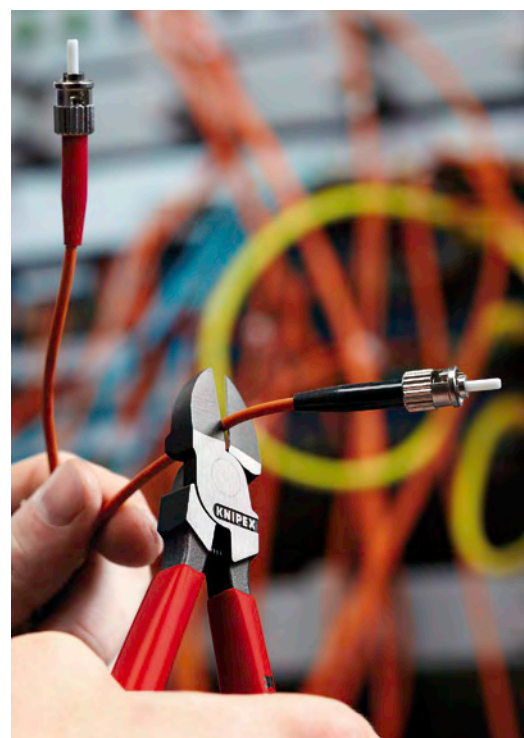
Diagonal Cutter for fibre optics

DIN ISO 5743

NEW: elongated cutting edge

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

Article No.	EAN 4003773-	↔ mm		Head	Handles	g
72 51 160	028031	160		polished	plastic coated	164



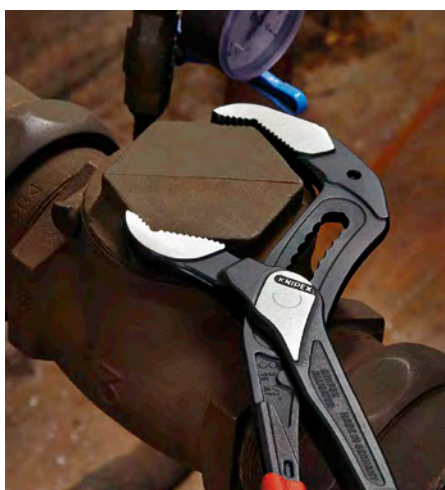


■ Innovations

Alligator® XL

The classic now also in 400 mm length.

- 11-notch adjustment for a gripping capacity up to 3 ½"
- robust construction, insensitive to dirt; particularly suitable for outdoor work
- 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 double guide
- guard prevents operators' fingers being pinched
- Chrome vanadium electric steel, forged, oil-hardened



Alligator® XL

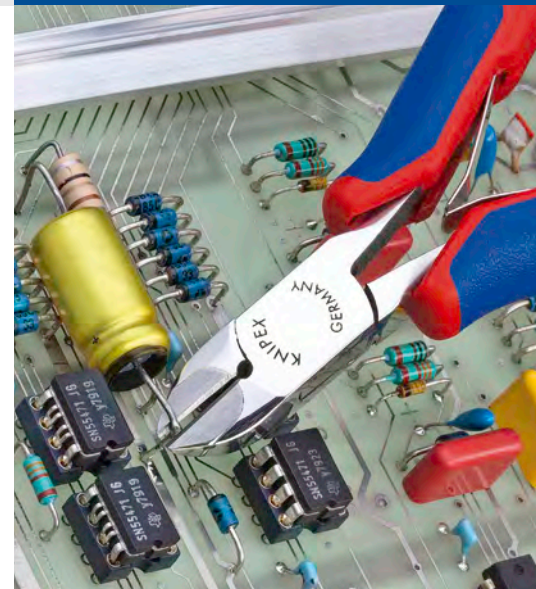
The KNIPEX Alligator® XL offers the performance and comfort of a water pump pliers while being 50 % lighter in weight and having a greater gripping capacity (3 ½") than comparable pipe wrenches. With their handy length of 400 mm, there is a place for KNIPEX Alligator® XL in every tool box.










Article No.	EAN 4003773-	↔ mm		Pliers	Head	Handles	∅ inch	∅ mm	∅ mm	Adjustment positions	g
88 01 400	075844	400		black atramentized	polished	with non-slip plastic coating	3 1/2	90	95	11	1204

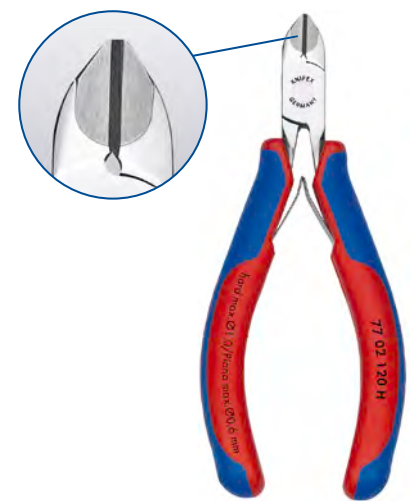


Electronics Diagonal Cutters with inserted carbide metal cutting edges

- for extreme demands on cutting pliers caused by hard or tough materials, e.g. piano, nickel, tungsten and diode wire, such as those used more frequently in the electronics and aerospace industries
- always the right cutting tool, even with the hardest material
- precision carbide metal cutting edges soldered into forged blanks
- sturdy, zero-backlash box joint
- hardness of the carbide cutting edges 80 – 83 HRC
- pliers with carbide metal cutting edges have a substantially longer service life than such with conventional cutting edges
- constantly reliable cutting results due to the avoidance of cutter deformations
- high cost saving due to longer service life of the pliers












Article No.	EAN 4003773-	↔ mm		Description	Cutting capacities				 g
					 Ø mm	 Ø mm	 Ø mm	 Ø mm	
77 02 120 H	075783	120		head mirror polished, round head, handles with multi-component grips	2.0	1.4	1.0	0.6	85
77 02 135 H	075806	135		head mirror polished, round head, handles with multi-component grips	2.2	1.6	1.2	0.8	115
77 32 120 H	075790	120		head mirror polished, pointed head with chamfer, handles with multi-component grips	1.6	1.0	0.6	0.2	80



Electronics Diagonal Cutters with insert carbide metal cutting edges – ESD

- electrically discharging handles – dissipative
- the electrostatic energy is discharged through the handles in a gradual and controlled manner which 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

Article No.	EAN 4003773-	↔ mm		Description	Cutting capacities				 g
					 Ø mm	 Ø mm	 Ø mm	 Ø mm	
77 02 120 H ESD	075813	120		head mirror polished, round head, handles with multi-component grips	2.0	1.4	1.0	0.6	85
77 02 135 H ESD	075837	135		head mirror polished, round head, handles with multi-component grips	2.2	1.6	1.2	0.8	115
77 32 120 H ESD	075820	120		head mirror polished, pointed head with chamfer, handles with multi-component grips	1.6	1.0	0.6	0.2	80



■ Innovations



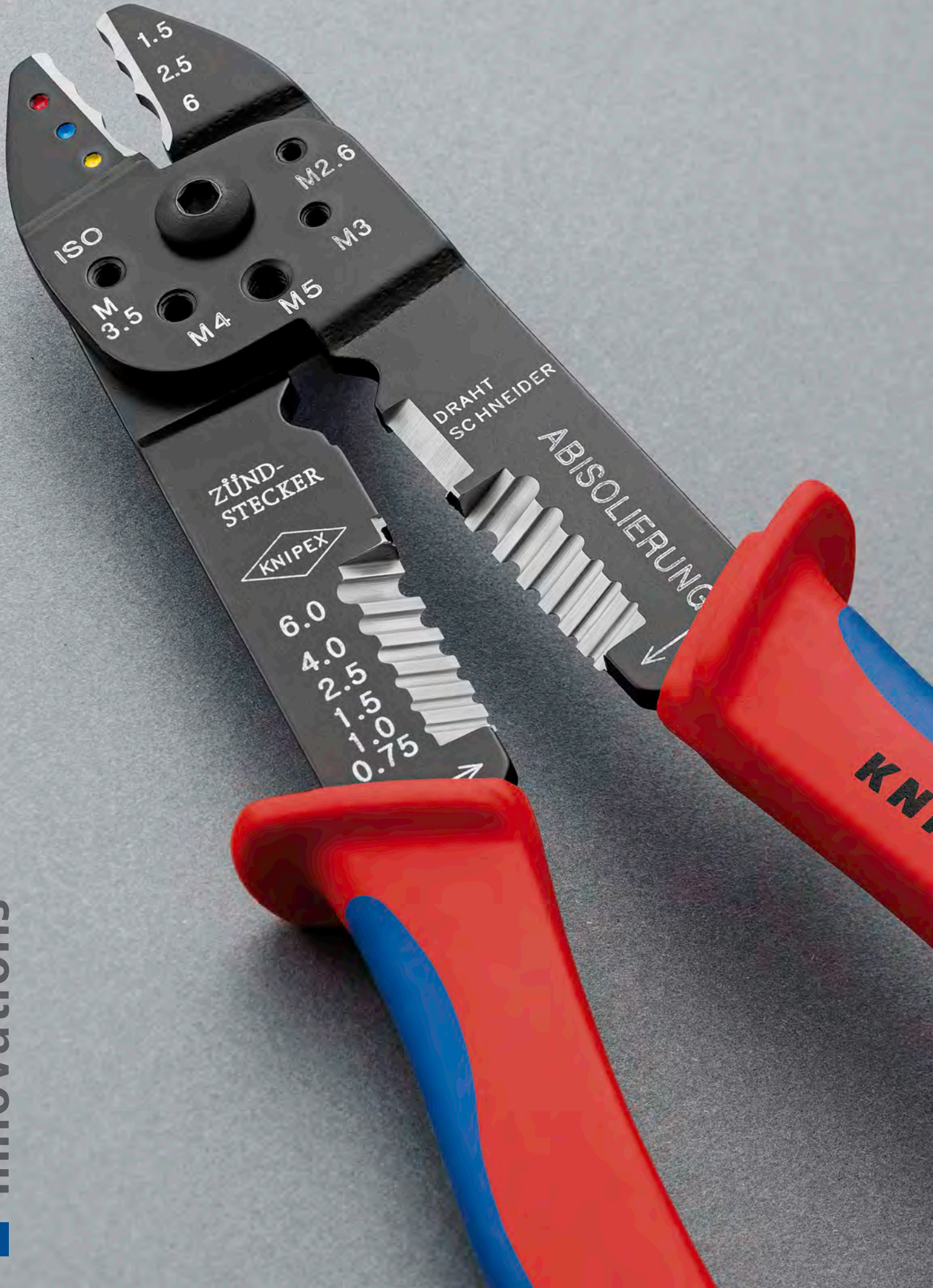
KNIPEX eCrimp

Electromechanically actuated crimping pliers for safe crimping of solid terminals up to 25 mm² and end sleeves (ferrules) up to 50 mm².

- strong electromechanical drive, no hydraulic components, no leakages
- possible use of over 40 KNIPEX crimp dies and locators as well as more than 1000 special crimp dies from the proven Crimp System Pliers (97 43 200)
- ergonomically optimised, user-friendly working height during workshop operation
- LED working light for targeted illumination of the crimping area
- low noise level
- Long servicing intervals (up to 25,000 crimping actions)!
The KNIPEX eCrimp is designed to only require servicing after 25,000 crimping actions. This means the intervals between servicing the electromechanical crimping pliers is 2.5 : 1 in relation to conventionally actuated crimping pliers. Moreover the eCrimp do not require annual servicing. The pliers are therefore available for crimping use for considerably longer. They do not need to be sent away frequently for servicing. High availability without downtimes while being serviced.
- powerful li-ion rechargeable battery
- safety loop to prevent falling during field work

The KNIPEX eCrimp is the first electromechanically actuated model of crimping pliers in the world. Its universal application range makes it an essential tool in the workshop and for rough field work.



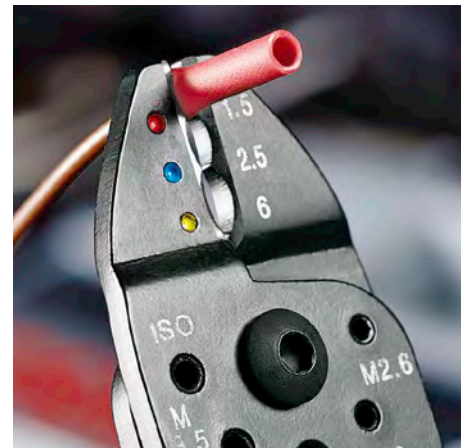
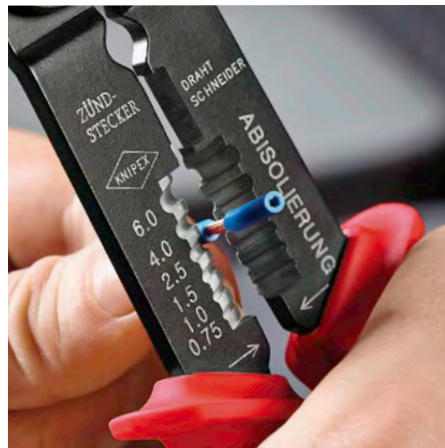
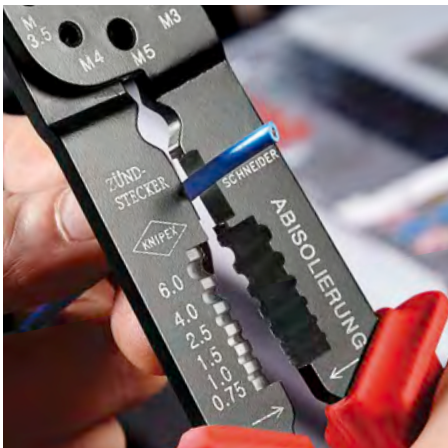


Crimping Pliers

NEW: improved, more stable design

NEW: convenient multi-component grips

- for cutting cables, stripping wire, crimping insulated and non-insulated terminals, connectors and plug type connectors
- with threaded holes for cutting copper and brass screws threaded M 2.6; M 3; M 3.5; M 4 and M 5
- bolted joint for higher stability and even movement
- Special steel, high-strength



Article No.	EAN 4003773-	↔ mm			Applications	Capacity mm ²	AWG	Number of crimping positions	g
97 21 215	019688	230			insulated terminals + plug connectors	0,75 - 6	18 - 10	3	290
97 21 215 B	019695	230			non-insulated open plug-type connectors (plug width 6.3 mm)	0,5 - 2,5	20 - 13	3	290
97 21 215 C	019701	230			non-insulated terminals and plug connectors	0,5 - 6,0	20 - 10	3	290



Crimp Assortments in a TANOS MINI-systainer®

- order and protection: foam inserts ensure safe transport
- TANOS Mini-systainers® have an integrated carrying handle
- robust fastener systems
- T-Loc fastener for one-handed operation: open or close the systainer® with one turn and connect to a second systainer®
- opening when connected: fast and simple access to content without disconnecting
- all systainers® are inherently stable, and are dust and waterproof



News: Crimp Assortments for cable connectors – Art.-Nr. 97 90 25

- with crimping pliers 97 22 240 for cutting cables, stripping wires, crimping insulated and non-insulated terminals and open plug-type connectors
- in a TANOS MINI-systainer® (solid plastic box)
- two stackable plastic inserts with 6 trays each for connectors
- with an assortment of standard cable connectors



Art.-No. 97 90 25

Other Crimp Assortments in the new TANOS MINI-systainer®

97 90 00
with crimping pliers 97 00 215 A

97 90 01
with crimping pliers 97 32 225

97 90 21
with crimping pliers PreciForce® 97 52 36
for insulated terminals and plug connectors

97 90 22
with self-adapting universal insulation stripper
Multistrip 10 – 12 42 195;
with crimping pliers PreciForce® 97 52 36
for insulated terminals and plug connectors

97 90 05
with crimping pliers for end sleeves 97 71 180;
for end sleeves (ferrules) without collar

97 90 06
with crimping pliers for end sleeves 97 71 180;
for end sleeves (ferrules) without collar

97 90 09
with self-adjusting crimping pliers for end sleeves
(ferrules) 97 53 04

97 90 10
with self-adjusting insulation stripper 12 40 200;
with self-adjusting crimping pliers for end sleeves
(ferrules) 97 53 04

97 90 12
with self-adjusting insulation stripper 12 40 200;
with self-adjusting crimping pliers for end sleeves
(ferrules) 97 53 08

97 90 23
with Crimping Pliers PreciForce® 97 52 38
for end sleeves

97 90 24
with self-adapting universal insulation stripper
Multistrip 10 – 12 42 195;
with self-adjusting crimping pliers for end sleeves
(ferrules) 97 53 08

KNIPEX Cable Connectors

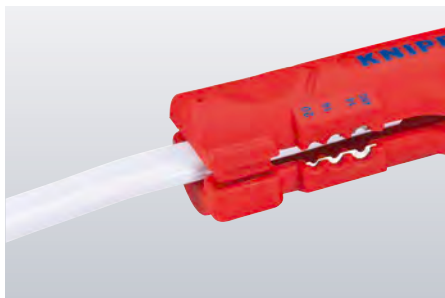
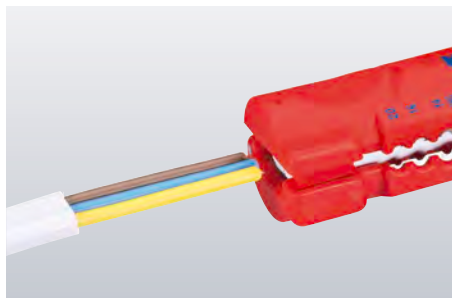
- expansion of the KNIPEX connector range
- user-friendly packaging units
- reclosable packaging with Euro standard perforation





Dismantling Tool for flat and round cables

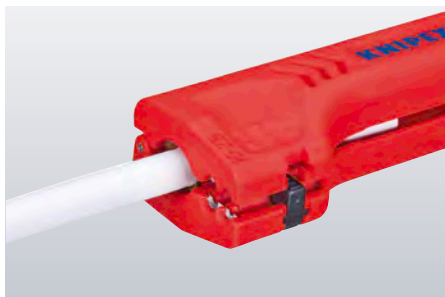
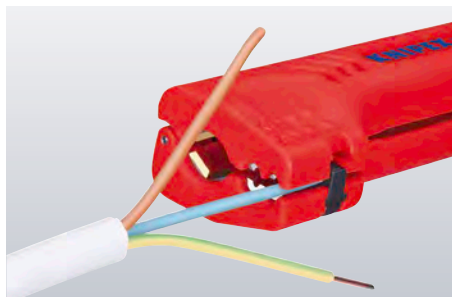
- for flat cables up to 12 mm in width
- also for dismantling and stripping all common round damp-proof installation cables \varnothing 4.0 to 13.0 mm (e.g. NYM cable 3 x 1.5 mm² to 5 x 2.5 mm²)
- with insulation stripper 0.8 / 1.5 / 2.5 mm²
- for use in confined and difficult to access work areas



Article No.	EAN 4003773-	↔ mm		Capacities Ø mm	⚖ g
16 64 125 SB	076933	125	MM	flat cable 12 mm / round cable 4 - 13 mm	47

Universal Dismantling Tool for building and industrial cables

- for dismantling and stripping all common round and damp-proof installation cables between 8.0 - 13.0 mm dia. (e.g. 3 x 1.5 mm² up to 5 x 2.5 mm²)
- specially suitable for larger cross-sections and for difficult insulating materials
- no adjustment of blades to cutting depth required
- stripping device for conductors and strands 1.5 mm² and 2.5 mm²
- two-way length stop (ideal for right and left-handers)
- fastening device on the end of the handle (fall protection)



Article No.	EAN 4003773-	↔ mm		Capacities Ø mm	⚖ g
16 90 130 SB	076940	130	MM	round cable 8 - 13 mm	48



The revolutionary lever action design of KNIPEX TwinForce®, patented

KNIPEX TwinForce®

The superior High-Leverage Diagonal Cutter with patented double joint

- ideal transmission of force due to double-hinged design
- extremely easy cutting with little strain: cuts again 50 % easier than the tried and tested KNIPEX high leverage diagonal cutters
- reliably cuts all types of wire, including steel tape
- for rough or very fine cutting
- low cutting impact: gentle on hands.
The tension on muscles and tendons is relieved
- for comfortable cutting, repetitive cutting or extremely hard cutting jobs
- high degree of stability and zero-backlash due to precisely milled forged-in axles
- Chrome vanadium heavy-duty steel, forged, oil-hardened



NEW for diagonal cutters: The option to reapply the tool. The KNIPEX TwinForce® cuts even 4 mm 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.



PATENTED



Article-No.	EAN 4003773-	Cutting capacities				↔ mm
		Ø mm	Ø mm	Ø mm	Ø mm	
73 71 180	074762	5.5	4.6	3.2	3.0	180
73 72 180	074779	5.5	4.6	3.2	3.0	180

KNIPEX TwinKey®

10 profiles. 2 crosses. 1 key. All established locking systems.

- multifunctional key for the actuation of locking systems from the areas of facilities engineering (heating and sanitation, air conditioning, electro technology), 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: 1,0 x 7 mm slot and PH 2 cross slot
- key and reversible bit joined by stable stainless steel wire
- quality surface coating
- weight-optimised zinc die-cast design

Well thought out equipment, quality processing.

The KNIPEX TwinKey® has eight arms and consists of two cross keys that are held inside each other with a magnet.



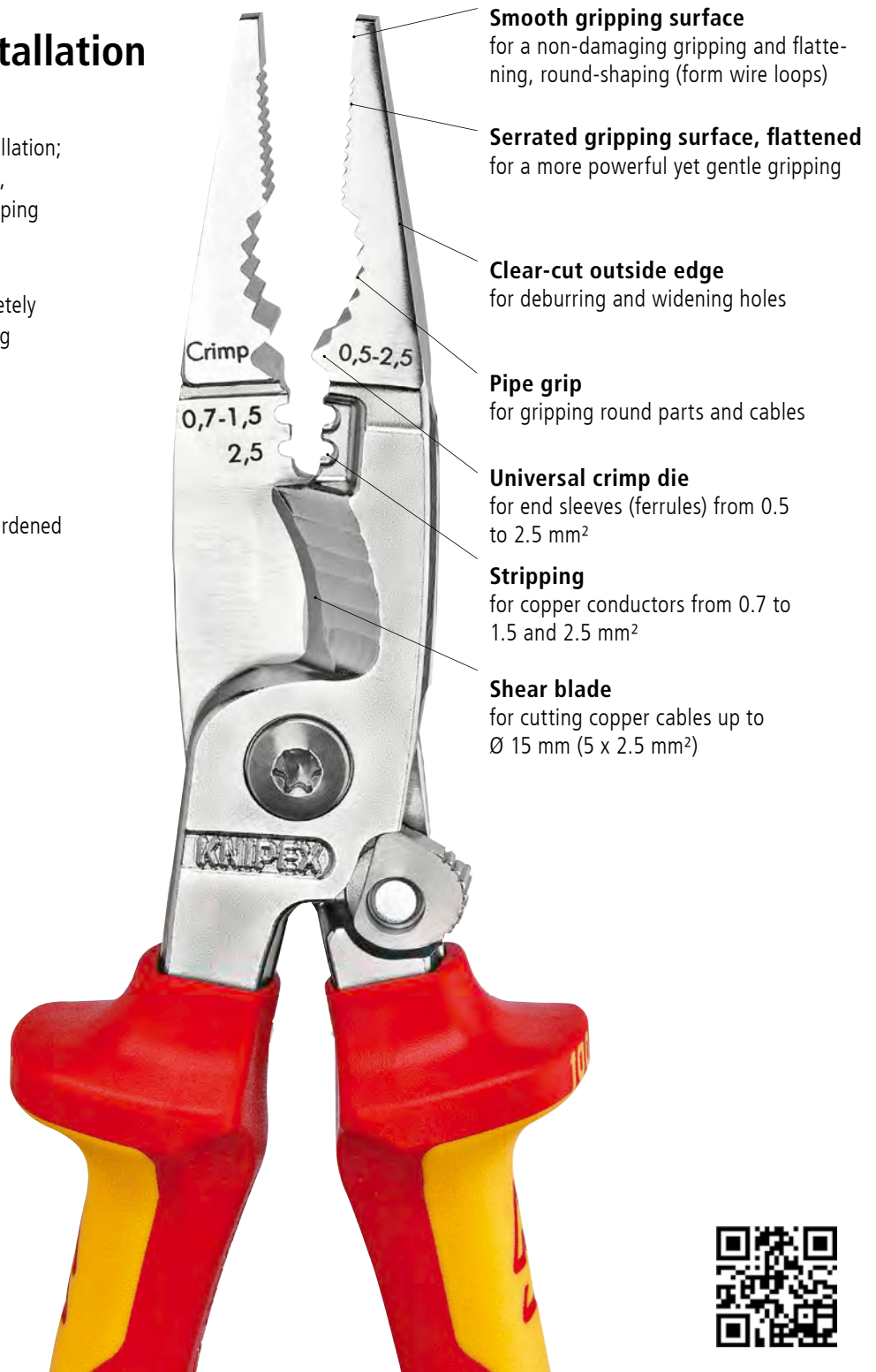
Article No.	EAN 4003773-	Cutting capacities					
		Ø mm	Ø mm	Ø mm	Ø mm	Ø mm	mm
00 11 01	074670	5 / 6 - 7 / 8 - 9 / 10 - 11	7 - 8 / 9 - 10 / 11 - 12	3 - 5	6	6 - 9	95

KNIPEX

Pliers for Electrical Installation

The all-rounder for professionals

- 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
- 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



Smooth gripping surface
for a non-damaging gripping and flattening, round-shaping (form wire loops)

Serrated gripping surface, flattened
for a more powerful yet gentle gripping

Clear-cut outside edge
for deburring and widening holes

Pipe grip
for gripping round parts and cables

Universal crimp die
for end sleeves (ferrules) from 0.5 to 2.5 mm²

Stripping
for copper conductors from 0.7 to 1.5 and 2.5 mm²

Shear blade
for cutting copper cables up to Ø 15 mm (5 x 2.5 mm²)

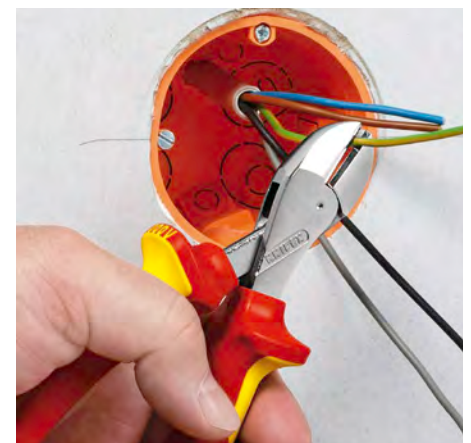
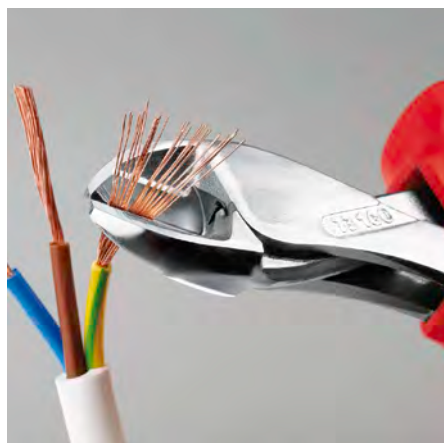


Article No.	EAN 4003773-	Pliers	Head	Handles	Cutting capacities		g	mm
					Ø mm	mm ²		
13 81 200	075240	black atramentized	polished	plastic coated	15	50	265	200
13 82 200	075080	black atramentized	polished	with multi-component grips	15	50	280	200
13 86 200	075097	⚡ 1000V	chrome plated	insulated with multi-component grips, VDE-tested	15	50	280	200
13 91 200	075257	black atramentized	polished	plastic coated	15	50	265	200
13 92 200	075103	black atramentized	polished	with multi-component grips	15	50	280	200
13 96 200	075110	⚡ 1000V	chrome plated	insulated with multi-component grips, VDE-tested	15	50	280	200

KNIPEX X-Cut®

Compact and light. Powerful and precise.
Cuts finest strands as well as multi-core cables and piano wires.

- box-joint design: highest stability at 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
- 40 % less effort required compared to diagonal cutters of the same length
- 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-	Pliers	Head	Handles	Cutting capacities					⚖ g	↔ mm
					⦿ Ø mm	◐ Ø mm	◑ Ø mm	○ Ø mm	⊗ Ø mm		
73 02 160	075127	black atramentized	polished	with multi-component grips	4,8	3,8	2,7	2,2	12	175	160
73 05 160	075134	chrome plated		with multi-component grips	4,8	3,8	2,7	2,2	12	175	160
73 06 160	075141	chrome plated		insulated with multi-component grips, VDE-tested	4,8	3,8	2,7	2,2	12	195	160

KNIPEX Cable Cutter

**Sturdy. Easy to use. Stable.
Innovative ratchet-drive.
For cable up to 60 mm diameter.**

- easy handling due to low weight (800 g) and compact construction (320 mm length) – usable in confined areas also
- cutting through copper and aluminium cables with diameters of up to 60 mm in one-hand and two-hand 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 steel wire and wire ropes)
- innovative three-stage ratchet-drive with high leverage for easy cutting in one-hand and two-hand operation
- fixed handle with support area for putting down the pliers when cutting
- High-grade special tool steel, forged, oil-hardened



No. 95 36 320



No. 95 32 320

First manual ratchet-action cable cutter for one-hand and two-hand operation for cutting through copper and aluminium cables with diameters of up to 60 mm!



Article No.	EAN 4003773-		Tool	Handles	Cutting capacities		MCM	g	mm
					Ø mm	mm ²			
95 32 320	075172	⊕ ⚡	burnished	with multi-component grips	60	600	1200	800	320
95 36 320	075189	⚡ 1000 V ⚡	burnished	insulated with multi-component grips, VDE-tested	60	600	1200	800	320

Circlip Tool

for internal and external circlips

- universally usable for large circlips with nominal diameters of 400 - 1000 mm
- 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 6-mm and 9-mm diameters, for perfect adaptation to the actuation bores in the circlips
- optional operation with hexagonal key, ratchet wrench or cordless screwdriver
- areas of application are wherever very high forces and torques are transmitted with large shafts and bearings, e.g.
 - wind turbines
 - tidal power stations
 - generator construction
 - hydropower stations
 - large machine construction (rolling mills, presses)
 - shipbuilding
 - aerospace

Article No.	EAN-4003773-	Size of bore Ø mm	Size of shaft Ø mm	g
46 10 100	075417	400 - 1000	400 - 1000	2200



manually operable



machine operable



replaceable inserts for internal and external circlips



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 action
- no unintentional shifting of the pliers handles
- guard prevents operators' fingers being pinched
- high wear resistance due to the additionally hardened teeth
- Chrome vanadium electric steel, forged, oil-hardened



Now also as 1 1/2" version!



Article No.	EAN-4003773-		∅ mm	Inch	Inch	Clamping width mm	g	mm
83 60 010	075424		42	1 5/8	1	42	955	330
83 60 015	075677		60	2 3/8	1 1/2	60	1470	420



LED Magnetic Light

Strong. Bright. Compact.

- for illuminating dark working areas
- attachment to tool by means of strong magnets
- very compact dimensions
- approx. 24 hours of lighting, with 2 replaceable button cells (CR1220)
- snap-hook fastening
- impact-resistant plastic housing



Article No.	EAN-4003773-	g
00 11 V50	075387	95

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