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# -

# **AVIATION** RANGE





**Pliers Wrenches** Pliers and a wrench in a single tool

### Replaces the need for sets of metric and imperial spanners Smooth jaws for damage free installation of plated fittings!

- adjustable tightening tool
- also excellent for gripping, holding, pressing and bending workpieces
- zero backlash jaw pressure prevents damage to edges of sensitive components
- push the button for adjustment on the workpiece
- parallel jaws give a more solid grip; its design allows flexible adjustment of all widths up to the specified maximum size
- reliable catching of the hinge bolt: no unintentional shifting
- the ratchet type principle allows quick and easy tightening and release of all bolted connections
- lever transmission greater than 10 : 1 for strong gripping power
- Chrome vanadium electric steel, forged, oil-hardened

Article No.	EAN 4003773-	Adjustment positions	Inch	mm mm	<b>∢</b> ► mm
86 03 125	077497	11	7/8	23	125
86 03 150	069676	14	1	27	150
86 03 180	035466	13	1 3/8	35	180
86 03 250	033837	17	1 3/4	46	250
86 03 300	041429	22	2 3/8	60	300
86 03 400	077312	25	3 3/8	85	400





The mini pliers wrench: particularly surable for working on small bolted connections, very good access in very confined areas.

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# A

# Cobra® – Hightech Water Pump Pliers

- adjustment at the touch of a button directly on the workpiece
- fine adjustment for optimum adaptation to different sizes of 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 stable gripping
- box-joint design: high stability because of the double guide
- reliable catching of the hinge bolt: no unintentional shifting
- guard prevents operators' fingers being pinched







87 02 250

Article No.	EAN 4003773-	Adjustment positions	O Ø Inch	O Ø mm	mm	<b>∢</b> ► mm
87 01 125	069935	13	1	27	27	125
87 01 150	060116	11	1 1/4	32	30	150
87 01 180	022015	18	1 1/2	42	36	180
87 01 250	022022	25	2	50	46	250
87 01 300	034087	30	2 3/4	70	60	300
87 02 180	042396	18	1 1/2	42	36	180
87 02 250	040316	25	2	50	46	250
87 02 300	029144	30	2 3/4	70	60	300
87 03 180	005667	18	1 1/2	42	36	180
87 03 250	043805	25	2	50	46	250
87 03 300	041382	30	2 3/4	70	60	300
87 05 250	005681	25	2	50	46	250
87 05 300	014126	30	2 3/4	70	60	300







#### Cobra® ES – Water Pump Pliers extra-slim

- particularly good access to the workpiece due to very slim construction of head and joint area
- ideal for service, maintenance and equipment repair, in automotive and general industry
- Iong, narrow jaws



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**NEW** Cobra<sup>®</sup> QuickSet now available

in 300 mm length.

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Cobra® QuickSet Hightech Water Pump Pliers

Fully open, push, grab!

Additional fast adjustment on the workpiece also without pressing the push-button

- combines the proven, reliable locking of the hinge bolt with an additional push function which makes it easier to work in very confined and inaccessible areas
- the adjustment directly on the workpiece is possible by simply sliding the pliers handle
- reliable locking of the hinge bolt with the first workload. The gripping width of the pliers is then fixed and can only be adjusted by pressing the button
- to re-activate the sliding function, the hinge bolt must be released by pressing the push button and the pliers must be completely opened again
- Chrome vanadium electric steel, forged, oil-hardened

#### 87 22 250:

• with slim two-colour multi-component sleeves without collar for better handling and easier transport



QuickSet





Press the button - open pliers completely



Position jaw - simply slide and close pliers

B

ickSet

87 21 300

seit



Hinge bolt locks itself with the first workload

Available as of June 2015

Article No.	EAN 4003773-	Ø Inch	O] ø mm		Adjustment positions	<b>∢→</b> mm
87 21 250	072775	2	50	46	25	250
87 22 250	077794	2	50	46	25	250
87 21 300	078524	2 3/4	70	60	25	300

#### **Proven Cobra® functions**

- self-locking on pipes and nuts: no slipping on the workpiece and low handforce required
- fine adjustment for optimum adaptation to different sizes of workpieces and a comfortable handle width
- good access to the workpiece due to slim size of head and joint area
- gripping surfaces with special hardened teeth, teeth hardness approx.
  61 HRC: high wear resistance and stable gripping
- box-joint design: high stability due to double guide
- reliable catching of the hinge bolt: no unintentional shifting
- guard prevents operators' fingers being pinched

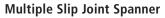


# **KNIPEX** Minis

in belt pouch

- KNIPEX Minis as "little helpers" in the practical belt pouch
- made of hard-wearing polyester fabric
- with hook and loop fastener
- with elastic side holder for small flash lamp, pen or suchlike
- with practical belt loop

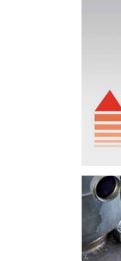
Article No.	EAN 4003773-	Content
00 20 72 V01	070832	86 03 150 Pliers Wrenches 87 01 125 Cobra®Water Pump Pliers
00 20 72 V02	075851	74 01 160 High Leverage Diagonal Cutter 87 01 150 Cobra® Water Pump Pliers



- for metric and imperial nuts and screws with widths across flats from 10 to 32 mm (3/8" up to 1 1/4"); self-locking from 17 mm: no slipping on the workpiece
- zero-backlash gripping of metric or imperial hexagonal headed screws, no rounding of bolt heads
- reliable and tight gripping of rounded, rusty, or thick coated bolts and screws
- quick tightening of bolted connections using ratchet action
- fine adjustment for optimum adaptation to different sizes of workpieces and a comfortable handle width
- replaces a set of wrenches, ideal for tightening locknuts











Article No.	EAN 4003773-	Adjustment positions	Inch		<b>∢</b> —► mm
87 41 250	054566	15	3/8 - 1 1/4	10 - 32	250

# Structure of KNIPEX Article Number



5

# **Finish of Pliers**

0 pliers black . atramentized, , head polished



1 head polished, handles plastic coated

2 head polished, handles with multicomponent grips

plastic coated

3

4 pliers chrome pliers chrome plated plated, handles

(PATENTED)



6 pliers chrome plated, handles with multicomponent grips

pliers chrome plated, handles insulated with multi-component grips, VDE-tested DIN EN 60900 / IEC 60900 



7 pliers chrome plated, handles with dipped insulation, VDE-tested DIN EN 60900 / IEC 60900 A 1000 V



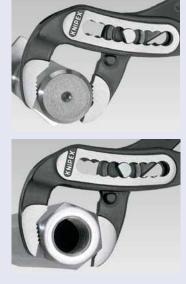
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### Alligator<sup>®</sup> – Water Pump Pliers

- self-locking on pipes and nuts: no slipping on the workpiece and low handforce required
- robust construction, insensitive to dirt; particularly suitable for outdoor work
- Chrome vanadium electric steel, forged, oil-hardened









38 01 300

Article No.	EAN 4003773-	Adjustment positions	O Ø Inch	O Ø mm	Inch	<b>∢</b> —► mm
88 01 180	035480	9	1 1/2	42	36	180
88 01 250	022992	9	2	50	46	250
88 01 300	034094	9	2 3/4	70	60	300

### Alligator<sup>®</sup> 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





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-	Adjustment positions	O Ø Inch	O Ø mm	Inch	<b>∢</b> —► mm
88 01 400	075844	11	3 1/2	90	95	400

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### **Diagonal Cutters**

- 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



				Otenna A	2000 200
Article No.	EAN 4003773-	Ø mm	Ø mm	O Ø mm	<b>←→</b> mm
70 02 140	023098	4.0	2.5	1.8	140
70 02 160	034032	4.0	2.8	2.0	160
70 02 180	034049	4.0	3.0	2.5	180



#### **High Leverage Diagonal Cutter**

- for very tough, continuous use
- 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), for all sorts of wire including piano wire
- Chrome vanadium heavy-duty steel, forged, oil-hardened

#### 74 12 160 / 74 12 180

with opening spring; to be activated if required

#### 74 21 ...

12° angled head offers clearance for gripping

Article No.	EAN 4003773-	● Ø mm	Ø mm	O Ø mm	<b>∢−</b> ► mm
74 02 160	023081	3.4	2.5	2.0	160
74 02 180	023074	3.8	2.7	2.2	180
74 02 200	040309	4.2	3.0	2.5	200
74 02 250	042402	4.6	3.5	3.0	250
74 12 160	065111	3.4	2.5	2.0	160
74 12 180	060192	3.8	2.7	2.2	180
74 21 160	034322	3.4	2.5	2.0	160
74 21 180	069973	3.8	2.7	2.2	180
74 21 200	050483	4.2	3.0	2.5	200
74 21 250	045021	4.6	3.5	3.0	250



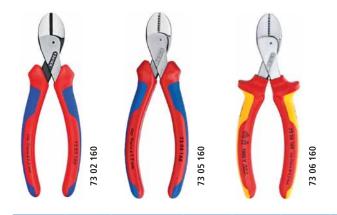




### X-Cut® – Compact Diagonal Cutters

Compact and 25 % 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
- Chrome vanadium heavy-duty steel, forged, oil-hardened



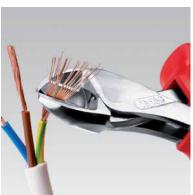
Article No.	EAN 4003773-		Ø mm	Ø mm	O Ø mm	O Ø mm	Ø mm	<b>∢</b> —► mm
73 02 160	075127		4.8	3.8	2.7	2.2	12	160
73 05 160	075134		4.8	3.8	2.7	2.2	12	160
73 06 160	075141	<b>☆ 1000 V 🖄 🚰</b>	4.8	3.8	2.7	2.2	12	160



40 % less effort required compared to standard diagonal cutters of the same length











# THE WORLD OF THE KNIPEX DIAGONAL CUTTERS

KNIPEX TwinForce® KNIPEX X-Cut®



Double-hinged design Hand force is multiplied by 39

greatest stability with little weight Hand force is multiplied by 16

High Leverage Diagonal Cutter

Long cutting edges for cutt also precise enough for the

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

Diagonal Cutter



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73 72 180

### TwinForce® – High Performance Diagonal Cutters (PATENTED)

# The superior High-Leverage Diagonal Cutter with patented double joint

- ideal transmission of force due to double-hinged design
- 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

#### 73 72 180 F:

- with opening spring to spimplify reapplication and for repetitive cutting



Article No.	EAN 4003773-	Ø mm	Ø mm	Ø mm	O Ø mm	<b>∢</b> —► 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
73 72 180 F	077657	5.5	4.6	3.2	3.0	180



Extremely easy cutting with little strain: cuts again 50% easier than the tried and tested KNIPEX high leverage diagonal cutters.

3 82 200

### 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

#### o functions in one pair of phers

- 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 mm<sup>2</sup> and 2.5 mm<sup>2</sup>
- crimp die for wire-end ferrules 0.5 2.5 mm<sup>2</sup>
- cable shears with (induction-hardened) precision cutting edges for copper and aluminium cables up to 5 x 2.5 mm<sup>2</sup> / dia. 15 mm
- slim dimensions for easy access
- bolted joint: precise, zero backlash operation of pliers
- High-grade special tool steel, forged, oil-hardened

#### 13 91 200 / 13 92 200 / 13 96 200

 the intelligent latching mechanism enables you to "grip" without opening the pliers. The cutting edge remians closed and protected

			C		Cutting capacities	
Article No.	EAN 4003773-		Handles	Ø mm	mm <sup>2</sup>	<b>∢—</b> ► mm
13 81 200	075240		plastic coated	15	50	200
13 82 200	075080		multi-component grips	15	50	200
13 86 200	075097	£ 1000 V 🖄 🚭	insulated with multi-component grips, VDE-tested	15	50	200
13 91 200	075257	MM	plastic coated	15	50	200
13 92 200	075103	MM	multi-component grips	15	50	200
13 96 200	075110	₩₩ 🛧 1000 V 🖄 🗲	insulated with multi-component grips, VDE-tested	15	50	200









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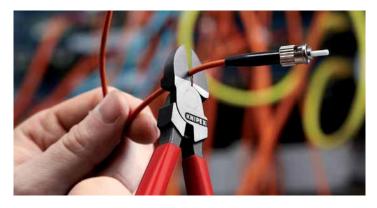
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- specially developed for cutting fibre optics (glass fibre cables)
- cutting face flush ground
- cutting edges additionally induction hardened
- with opening spring
- Vanadium electric steel; forged, oil-hardened



Article No.	EAN 4003773-		Head	Handles	<b>∢</b> —► mm
72 51 160	028031	MM	polished	plastic coated	160





#### Wire Rope Shears Double function: neat cutting, precise crimping

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



Crimping of the end ferrule onto the traction cable



Crimping of the end caps on the Bowden cable sheath



95 61 190

				Cutting capacities				
Article No.	EAN 4003773-		Ø mm	Ø mm	● Ø mm	O Ø mm	<b>∢—</b> ► mm	
95 61 190	040651	MM	7.0	6.0	4.0	2.5	190	
95 62 190	071976	MM	7.0	6.0	4.0	2.5	190	



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# Cable Shear

- for cutting copper and aluminium single conductors as well as multiple stranded cables
- not suitable for 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
- guard prevents operators' fingers being pinched
- adjustable bolted joint, self-retaining screw
- High-grade special tool steel, forged, oil-hardened



Article No.	EAN 4003773-	Ø mm	Ø mm <sup>2</sup>	AWG	<b>∢</b> ► mm
95 11 165	040323	15	50	1/0	165



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

### Cable Shear

#### with twin cutting edge

- for cutting copper and aluminium cables
- not suitable for 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 20 mm can be cut in one-hand operation
- less effort required due to favourable lever ratio and optimised cutting-edge geometry
- guard prevents operators' fingers being pinched
- adjustable bolted joint, self-retaining screw
- 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.



		Cutting c	apacities		
Article No.	EAN 4003773-	Ø mm	Ø mm <sup>2</sup>	AWG	<b>∢</b> ► mm
95 11 200	043928	20	70	2/0	200



Final cut: after cutting the sheath in the front profile the conductors in the rear part are cut. Initial cut in the front profile, final cut in the rear profile – to keep it as easy as possible.

# A

#### Precision Insulation Strippers with adapted blades

PATENTED

- form-fit stripping also of difficult-to-remove insulating materials made of PTFE, silicone, Radox<sup>®</sup>, Kapton<sup>®</sup> and rubber; multi-layer too
- a second pair of blades holds the remaining insulation reliably in place
- replaceable shaped blade adapted precisely to the respective conductor cross-section
- with length stop for constant stripping length during repetitive work
- pliers body: steel
- blade: special tool steel, oil-hardened

#### Registered trademark:

the blades

Radox® - HUBER+SUHNER AG; Kapton® - E. I. du Pont de Nemours and Company





12 42 195

Automatic stripping of the insulation



12 12 06

Article No.	EAN 4003773-		Stripping capacities mm <sup>2</sup>	AWG	<b>←→</b> mm
12 12 02	048077	MM	0.03 - 2.08	32 - 14	195
12 12 06	049005	MM	0.14 - 6	26 - 10	195
12 12 10	049012	MM	2.5 - 10	13 - 7	195

502



Two pairs of blades for form-fit stripping

#### MultiStrip 10 – Automatic Insulation Stripper

# PATENTED

Improved knife geometry – robust and more durable Optimised handle design with more comfort Recessed wire cutter

- fully automatic adjustment to all single-, multi- and fine-stranded conductors with PVC insulation and a number of special insulation throughout the entire capacity range from 0.03 to 10 mm<sup>2</sup>
- no manual fine adjustment required
- no damage to the conductors
- the clamping jaws made of steel hold the cable in a way that prevents slipping without damaging the remaining insulation





0.03 - 10



054580

MM



32 - 7

195

Precise stripping from 0.03 to 10 mm<sup>2</sup> without re-adjustment

Precise cutting of the insulation to a complete extent

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#### **Connector Pliers**

For siphons, tube fittings and connectors up to 80 mm diameter Fine adjustment for ideal adjustment to diverse diameters

### Robust, heavy duty

- ideal for tightening and loosening siphon screw connections, plastic pipe fittings and round union nuts
- for connectors and couplings with screw connection, such as Cannon circular connectors
- for gentle loosening of hoses on nozzles
- 25 adjustment positions, box-joint design
- ergonomic handle geometry
- Chrome vanadium electric steel, forged, oil-hardened

#### 81 01 250 / 81 03 250

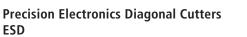
- with serrated gripping jaws; up to Ø 80 mm
- 81 11 250 / 81 13 250
- with exchangeable plastic jaws for sensitive surfaces; up to Ø 75 mm







Article No.	EAN 4003773-		Pliers	Handles	Working Capacity Ø mm	Adjustment positions	<b>∢</b> —► mm
81 01 250	078463		black atramentized; head polished	with non-slip plastic coating	25 - 80	25	250
81 03 250	078487		chrome plated	with non-slip plastic coating	25 - 80	25	250
81 11 250	078470		black atramentized; head polished	with non-slip plastic coating	10 - 75	25	250
81 13 250	078494		chrome plated	with non-slip plastic coating	10 - 75	25	250
81 19 250	078500	2 pair	s of plastic jaws for 81 11 250 and 81 13 25	0			









79 02 125 ESD

79 22 125 ESD



79 32 125 ESD

ESD pliers (Electrostatic discharge)

- 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
- precision pliers for ultra fine cutting work, e. g. in electronics and fine mechanics
- very precisely ground and sharp cutting edges with very small bevels for exact cutting on delicate electronic components; also available without bevel for flush cutting
- electrically discharging handles dissipative
- cutting edges additionally induction hardened, 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 optimised multi-component handles
- forged from chrome vanadium ball-bearing steel

#### 79 02 120 ESD / 79 22 120 ESD

mini-head

79 02 125 ESD / 79 22 125 ESD round head

#### 79 12 125 ESD

specially for cutting through hard wire and piano wire

79 32 125 ESD / 79 42 125 ESD pointed head

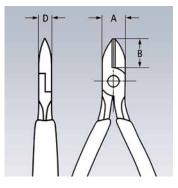
#### 79 52 125 ESD / 79 62 125 ESD

pointed head; with lead catcher - no uncontrolled loss of cut wire ends



79 42 125 ESD

				Cutting of	capacities			Dimensions		
Article No.	EAN 4003773-		Ø mm	Ø mm	Ø mm	Ø mm	B mm	A mm	D mm	<b>∢≻</b> mm
79 02 120 ESD	061595	MM	0.2 - 1.4	1.0	0.6		6.5	9.0	6.5	120
79 02 125 ESD	061519	MM	0.2 - 1.7	1.3	0.7		10.0	11.0	6.5	125
79 12 125 ESD	071389	MM	0.3 - 1.7	1.3	1.0	0.6	10.0	11.0	6.5	125
79 22 120 ESD	061618	MM	0.1 - 1.3	0.8			6.5	9.0	6.5	120
79 22 125 ESD	061533	MM	0.1 - 1.7	1.0			10.0	11.0	6.5	125
79 32 125 ESD	061557	MM	0.2 - 1.5	1.1	0.6		10.5	11.0	6.5	125
79 42 125 ESD	061571	MM	0.1 - 1.5	0.8			10.5	11.0	6.5	125
79 52 125 ESD	065159	MM	0.2 - 1.3	0.9	0.5		11.0	11.0	6.5	125
79 62 125 ESD	065166	MM	0.1 - 1.3	0.8			11.0	11.0	6.5	125





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# For an optimised flush cutting result of soft materials

- for installations with tight tolerances, for precise configuration of wire ends
- very precisely ground and sharp cutting edges with very small bevels for exact cutting on delicate electronic components; also available without bevel for flush cutting



79 42 125 2

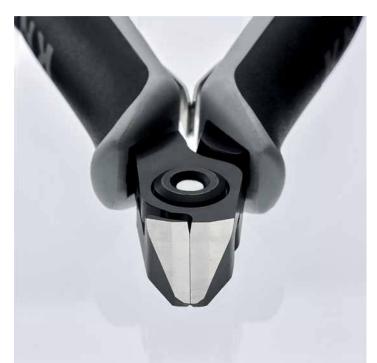
NEW

			Cutting capacities	Dimensions			
Article No.	EAN 4003773-		Ø mm	B mm	A mm	D mm	<b>∢—</b> ► mm
79 42 125 Z	278449	MM	0,1 - 1,3	11,0	11,0	6,5	125
79 42 125 Z ESD	278450	MM	0,1 - 1,3	11,0	11,0	6,5	125



#### The subtle 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 even without backlash. Each work step proceeds reliably and precisely. This makes work much easier for professionals.





Ø 1,3 mm

Cut with 79 42 125 (without bevel) Cut with 79 42 125 Z (flush cut)



Cu-wire



- 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 wires resting on a board from 0.2 mm dia.
- joint with stainless steel rivet
- extremely smooth movement for minimum operator fatigue
- with opening spring and opening limiter



			Cutting capacities					
Article No.	EAN 4003773-		Ø mm	Ø mm	B mm	A mm	D mm	<b>∢—</b> ► mm
78 03 125 ESD	025146	MM	0.2 - 1.6	1.0	9.0	13.5	7.5	125
78 13 125 ESD	025153	MM	0.2 - 1.6	1.0	9.0	13.5	7.5	125
78 61 125 ESD	025184	MM	0.2 - 1.6	1.2	9.0	13.5	7.5	125
78 71 125 ESD	025191	MM	0.2 - 1.6	1.2	9.0	13.5	7.5	125

#### 78 03 125 ESD

INOX – stainless steel; cutting edge hardness approx. 54 HRC

#### 78 13 125 ESD

INOX - stainless steel; cutting edge hardness approx. 54 HRC; with lead catcher - no uncontrolled loss of cut wire ends

#### 78 61 125 ESD

cutting edges additionally induction hardened, cutting edge hardness approx. 64 HRC; special tool steel, burnished

#### 78 71 125 ESD

with lead catcher - no uncontrolled loss of cut wire ends; cutting edges additionally induction hardened, cutting edge hardness approx. 64 HRC; special tool steel, burnished

# **Electronics Diagonal Cutters**

with inserted carbide metal cutting edges - ESD

- 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

77 02 120 H ESD / 77 02 135 H ESD

- 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
- electrically discharging handles dissipative

Cutting capacities  $\bigcirc$  $\bigcirc$  $\bigcirc$ EAN Article No 400377 Øm Ø mi Ø mn Ø mn mm 77 02 120 H ESD 075813 MM 2.0 1.4 1.0 0.6 120 77 02 135 H ESD 075837 MM 2.2 1.6 1.2 0.8 135 77 32 120 H ESD 075820 0.6 MM 1.6 1.0 0.2 120 16 flush cut without bevel with very small bevel



77 32 120 H ESD



# Precision Tweezers ESD

- Chrome nickel steel: stainless, anti-magnetic (18/10), very popular electronics quality
- ESD coating: non-reflective black, with a surface resistance of approx. 10<sup>5</sup> Ohm
- tips non-reflective brushed
- gripping surfaces matt finished for optimum grip



Article No.	EAN 4003773-		Finish	<b>∢</b> ► mm
92 08 78 ESD	054634	<u>∡4</u> 5°	for SMD-technology*; angled tips; smooth gripping surfaces	120
92 08 79 ESD	054641		shaped to grip horizontal cylindrical components of 1.0 mm dia.; smooth gripping surfaces; serrated handles	120
92 28 69 ESD	054771		straight pattern; strong tip; smooth gripping surfaces	130
92 28 70 ESD	054788		straight pattern; fine tip; smooth gripping surfaces	110
92 28 71 ESD	054795		needle-pointed tips; straight pattern; smooth gripping surfaces	110
92 28 72 ESD	054801		American shape, solid; long tips; straight pattern; smooth gripping surfaces	135
92 38 75 ESD	054863	<u>∡4</u> 5°	sickle-shaped tips; smooth gripping surfaces	120
92 58 74 ESD	054900		round tips, approx. 2 mm wide; straight pattern; smooth gripping surfaces	120
92 78 77 ESD	054979		round tips, approx. 3.5 mm wide; straight pattern; knurled gripping surfaces; serrated handles	145
92 88 73 ESD	054993		rectangular tips, approx. 0.9 mm wide; gripping surfaces with fine transverse serration	130

\* SMD-technology: technique for soldering surface mounted components on printed circuit boards without using holes.

# Flat Nose Pliers and Snipe Nose Pliers of plastic insulating

- fully insulating to reduce risk of short circuit
- plastic material, fibreglass reinforced
- handles with soft plastic zone for better grip

Article No.	EAN 4003773-		Description	<b>∢—</b> ► mm
98 62 01	073956	£1000V @€	Flat Nose Pliers	180
98 62 02	073963	<b>≙ 1000 V @</b> €⊖ ====	Snipe Nose Pliers	220





### **Mechanics' Pliers**





38 21 200

38 31 200

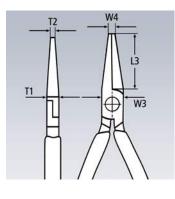


38 41 190







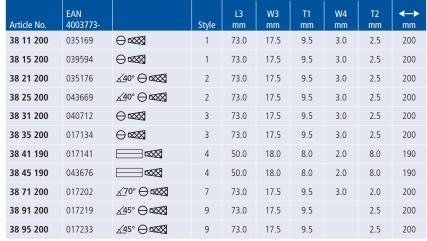


Style 7 angled, half-round jaws, suitable for pulling split pins; for gripping at points that are difficult to access



Dimensions







- high bending strength of the pliers jaws/tips
- gripping surfaces cross-hatched, knurled
- Vanadium electric steel; forged, oil-hardened





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Elastic tips: dimensionally stable even when twisted

- distortion-tolerant, elastic precision tips
- half-round, long, pointed jaws
- with cutting edges (hardness approx. 61 HRC) for soft, medium-hard and hard wire
- Vanadium electric steel; forged, oil-hardened



#### **Precision Circlip Pliers**

EAN

Article N

26 12 200

26 22 200

400377

023142

023135

to assemble external circlips on shafts

<u>×4</u>0°

With inserted tips for reliable work

 heavy duty in continuous operation: up to 10 times longer service life compared to turned tips

 $\bigcirc$ 

Ø mn

3.2

3.2

- large contact faces on the tips: no distortion of circlips, easy fitting
- bolted joint: precise, zero backlash operation of pliers
- internal opening spring, protected and captive
- 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 / A1 / A2 / 49 41 A01 with overexpansion guard (adjustable using end stop); adjustment using Allen screw; ideal for series production as excessive expansion of rings is effectively prevented

Style 3

DIN 5254 A; straight tips; with overexpansion guard

#### Style 4

DIN 5254 B; 90° angled tips; with overexpansion guard

Article No.	EAN 4003773-		Style	Size of shaft Ø mm	Tips-Ø ca. mm	<b>∢—</b> ► mm		
49 11 A0	048718			3 - 10	0.9	140		
49 11 A1	048725		1	10 - 25	1.3	140		
49 11 A2	048732	$\mathcal{M}\mathcal{M}$		19 - 60	1.8	180		
49 11 A3	048749			40 - 100	2.3	225		
49 11 A4	048756			85 - 140	3.2	320		
49 21 A01	048817					3 - 10	0.9	130
49 21 A11	048824			10 - 25	1.3	130		
49 21 A21	048831	<u>∡9</u> 0°	2	19 - 60	1.8	165		
49 21 A31	048848			40 - 100	2.3	210		
49 21 A41	048855			85 - 140	3.2	305		
49 31 A0	061748			3 - 10	0.9	140		
49 31 A1	073895	MM	М 3	10 - 25	1.3	140		
49 31 A2	073901			19 - 60	1.8	180		
49 41 A01	061755	MM	4	3 - 10	0.9	130		

#### **Assembly Pliers**

- specially suitable for gripping and assembly work with a higer prehensile power
- knurled gripping surfaces
- High-grade special tool steel, forged, oil-hardened



			Dimensions						
Article No.	EAN 4003773-	L3 mm	W3 mm	T1 mm	W4 mm	T2 mm	<b>∢—</b> ► mm		
28 01 200	044468	33.0	13.5	10.5	4.0	10.5	200		



#### **KNIPEX-Circlip Pliers with overexpansion guard**

For the standardised fitting of circlips in the industrial serial production. Particularly manufacturers of sensitive, safety-relevant components (e.g. brakes or gears) higly appreciate the compliance of DIN 471 and 472. The mounting of circlip rings in this case requires pliers with overexpansion guard or a cone. KNIPEX Circlip Pliers with overexpansion guard meet the requirements and furthermore offer a superior durability.



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### **Precision Circlip Pliers**

to assemble internal circlips into bores With inserted tips for reliable work

- heavy duty in continuous operation: up to 10 times longer service life compared to 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

ores c up to 10 times d tips peration of pliers ss c steel, forged, 48 11 J2 48 11 J2 C re- comm

Style 1 DIN 5256 C, straight tips

Style 2 DIN 5254 B; 90° angled tips

Style 3 DIN 5256 C, straight tips



#### **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!



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: with closing limiter



KNIPEX-Precision Circlip Pliers: Fit circlips without distortion; easy and quick assembling.



Circlips are held securely: The large supporting surfaces and the position of the tips make it more difficult for the rings to bounce off.

Article No.	EAN 4003773-		Style	Size of bore Ø mm	Tips-Ø ca. mm	<b>∢</b> ► mm
48 11 J0	048510			8 - 13	0.9	140
48 11 J1	048527			12 - 25	1.3	140
48 11 J2	048534		1	1 19 - 60	1.8	180
48 11 J3	048541			40 - 100	2.3	225
48 11 J4	048558			85 - 140	3.2	320
48 21 J01	048619			8 - 13	0.9	130
48 21 J11	048633			12 - 25	1.3	130
48 21 J21	048640	<u>√9</u> 0°	2	19 - 60	1.8	165
48 21 J31	048657			40 - 100	2.3	210
48 21 J41	048664			85 - 140	3.2	305
48 31 J1	073864		3	12 - 25	1.3	140
48 31 J2	073871		3	19 - 60	1.8	180



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#### **Aviation-Minis**

- Pliers Wrench with roughened jaws (Art.-No. 86 05 150 S02)
- Diagonal Cutter with specially rounded edges for working on cable harnesses (Art.-No. 79 02 125 S1)
- made of hard-wearing polyester fabric for two pliers
- with hook and loop fastener
- with a second hook-and-loop fastener inside the flap; so the flap can be fastened in an open position and does not disturb the workflow (quiver function)
- with elastic side holder for small flash lamp, pen or suchlike

Article No.	EAN 4003773-			<b>∢</b> ► mm
00 19 72 V01	072768	Aviation-Minis		
		86 05 150 S02	KNIPEX Aviation Pliers Wrenches	150
		79 02 125 51	Diagonal Cutter for works on cable harnesses	125



#### KNIPEX Aviation Pliers Wrenches 86 05 150 S02

- for opening plastic cable connectors
- no sharp edges at the tool
- roughened jaws for a better grip
- unintentional damage to the cable/insulation is reliably avoided
- plastic cable ties are opened with high pressing strength
- controlled detachement of the plastic cable tie
- no sections / waste can drop down





					C	Dimension	s	
Article No.	EAN 4003773-	Inch	mm	Adjustment positions	B1 mm	B2 mm	B3 mm	<b>∢</b> —► mm
86 05 150 S02	071785	1	27	14	4.7	7.0	10.5	150

### Diagonal Cutter

#### for works on cable harnesses

79 02 125 S1

• all edges on the head are rounded

with very small bevel

EAN

4003773

061519

MM 0.2-1.7

1.3

 reduces the risk of damage to the insulation when making corrections to cable harnesses



0.7



6.5

61

125

11.0

Article No

79 02 125 S1

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### Collar cracker for aluminium collars

- to force off aluminium break-away nuts (collars) e.g. on Hi-Lok<sup>®</sup> screw fasteners (Not suitable for steel or titanium collars!)
- adjustment at the touch of a button directly on the workpiece
- high cutting strength with increase to 10 times the hand's power
- Chrome vanadium electric steel, forged, oil-hardened

#### 86 05 180 S4:

cutting edge with an angle of 45 degrees - for better accessibility



86 05 250 S4



86 05 250 S5

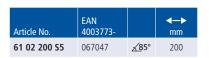
				l	Dimensions				
Article No.	EAN 4003773-		Adjustment positions	B1 mm	B2 mm	B3 mm	<b>∢—</b> ► mm		
86 05 180 S4	069089	,∕45°	13	5.0	8.0	12.0	180		
86 05 250 S4	069102	<u>×4</u> 3	14	8.0	8.0	14.0	250		
86 05 180 S5	069096		13	5.0	8.0	12.0	180		
86 05 250 S5	069119		14	8.0	8.0	14.0	250		



### **Bolt End Cutting Nippers** high lever transmission

Collar cracker for steel and titan collars

- to force off break-away nuts (collars) made of aluminium, steel and titanium e.g. on Hi-Lok<sup>®</sup> screw fasteners
- less effort required and better handling
- exceptionald cutting capacity due to highleverage joint
- with large contact surface on the handles for better allotment of pressure and more comfort at work
- Vanadium electric steel; forged, oil-hardened









Hi-Lok® is a registered trademark of the Hi-Shear Corporation



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### Four-Mandrel Crimping Pliers

for turned contacts

- 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 highly effective lever action for fatigue-reduced operation
- high operation comfort thanks to handy shape
- Chrome vanadium electric steel in special quality, oil-hardened

#### 97 52 65 DG

crimping capacity can be adjusted in increments of 0.01 mm; with digital display of the preset crimping capacities and possibility of re-calibration via RESET function with electronic wear monitoring; adjustment in mm, inches or comparable selection positions according to MIL; with table for calculating the settings; pliers in a plastic case with foam insert and pliers in a plastic case with foam insert and standard locator for precise positioning of the contacts

#### 97 52 65 DG A

crimping capacity can be adjusted in increments of 0.01 mm; with digital display of the preset crimping capacities and possibility of re-calibration via RESET function with electronic wear monitoring; adjustment in mm, inches or comparable selection positions according to MIL; with table for calculating the settings; pliers in a plastic case with foam insert; without locator



Standard Locator

Universal Locator



ersal Locator



Turned contacts are used for particularly demanding plug-type connections, e.g. in medical industry and aeronautics. 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.



Article No.	EAN 4003773-			Applications	Capacity mm <sup>2</sup>	AWG	Number of crimping	<b>∢</b> —▶ mm
97 52 65 DG	063216	MM	×	turned contacts (e.g.: Harting; Ilme; Phoenix; Contact Amphenol; Walther; HTS; Weidmüller)	0.14 - 6	25 - 10	1	250
97 52 65 DG A	071990	MM	×	turned contacts (e.g.: Harting; Ilme; Phoenix; Contact Amphenol; Walther; HTS; Weidmüller)	0.14 - 6	25 - 10	1	250
97 59 65 2	071600	Univers	al Lo	tator				

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