# 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<br>4003773- | Adjustment<br>positions | Inch  | ]<br>mm | <b>∢</b> ►<br>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 suitable for working on small bolted connections, very good access in very confined areas.

#### **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<br>4003773- | Adjustment<br>positions | Ø Inch | Ø mm | mm | <b>∢</b> —►<br>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               |













#### 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





#### 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





Press the button - open pliers completely



Position jaw - simply slide and close pliers



Hinge bolt locks itself with the first workload

50

| Article No. | EAN<br>4003773- | Ø Inch | Ø mm | mm | Adjustment<br>positions | <b>∢</b> –<br>mi |
|-------------|-----------------|--------|------|----|-------------------------|------------------|
| 87 21 250   | 072775          | 2      | 50   | 46 | 25                      | 25               |
| 87 22 250   | 077794          | 2      | 50   | 46 | 25                      | 25               |

#### **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

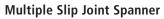


# **KNIPEX Minis**

# 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<br>4003773- | Content  |
|--------------|-----------------|--|
| 00 20 72 V01 | 070832          | 86 03 150 Pliers Wrenches<br>87 01 125 Cobra®Water Pump Pliers               |
| 00 20 72 V02 | 075851          | 74 01 160 High Leverage Diagonal Cutter<br>87 01 150 Cobra®Water Pump Pliers |



- for metric and imperial nuts and screws with widths across flats from 10 to 3<sup>2</sup> 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<br>4003773- | Adjustment<br>positions | Inch        |         | <b>∢—</b> ►<br>mm |
|-------------|-----------------|-------------------------|-------------|---------|-------------------|
| 87 41 250   | 054566          | 15                      | 3/8 - 1 1/4 | 10 - 32 | 250               |

# Structure of KNIPEX Article Number



5

pliers chrome

with multi-

plated, handles

component grips

# **Finish of Pliers**

1

0 pliers black atramentized, , head polished



2 head polished, handles plastic coated

head polished, handles with multicomponent grips

3 pliers chrome plated, handles plastic coated

(PATENTED)

pliers chrome plated

4



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



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

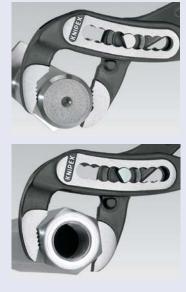
7





#### Alligator® – 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









88 01 300

| Article No. | EAN<br>4003773- | Adjustment<br>positions | O<br>Ø Inch | O<br>Ø mm | Inch | <b>∢</b> —►<br>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

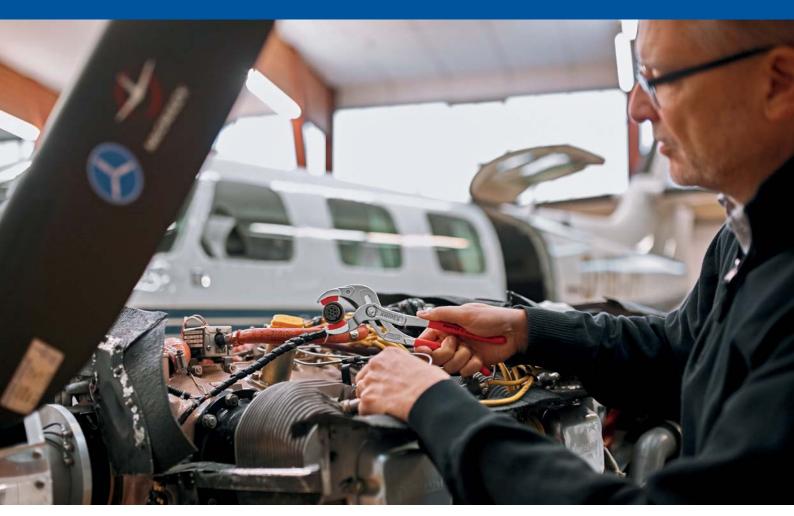
- 11-notch adjustment for a gripping capacity up to 3 ½"
- robust construction, insensitive to dirt; particularly suitable for outdoor work
- good access to the workpiece due to slim size in the head and joint area
- self-locking on pipes and nuts: no slipping on the workpiece and low handforce required
- 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<br>4003773- | Adjustment<br>positions | O<br>Ø Inch | O<br>Ø mm | Inch | <b>∢</b> —►<br>mm |
|-------------|-----------------|-------------------------|-------------|-----------|------|-------------------|
| 88 01 400   | 075844          | 11                      | 3 1/2       | 90        | 95   | 400               |



#### **Connector Pliers**

For siphons, tube fittings and connectors up to 80 mm diameter

Fine adjustment (25 Adjustment positions) 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

 $\hfill \,$  with exchangeable plastic jaws for sensitive surfaces; up to Ø 75 mm





81 13 250

**--**

250

250

250

250

EAN Working Capacity Adjustment Article No 4003773 Handles Ømm positio 81 01 250 25 - 80 25 078463 black atramentized; head polished with non-slip plastic coating 81 03 250 25 - 80 25 078487 chrome plated with non-slip plastic coating 81 11 250 078470 black atramentized; head polished with non-slip plastic coating 10 - 75 25 81 13 250 078494 chrome plated with non-slip plastic coating 10 - 75 25 81 19 250 078500 2 pairs of plastic jaws for 81 11 250 and 81 13 250



#### **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



| Article No. | EAN<br>4003773- | Ø mm | Ø mm | Ø mm | <b>←→</b><br>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<br>4003773- | Ø mm | O<br>Ø mm | O<br>Ø mm | <b>∢—</b> ►<br>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               |





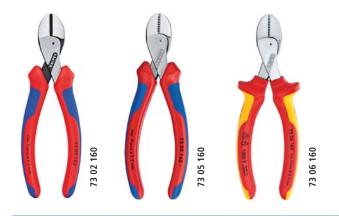
20 % less effort required compared to standard diagonal cutters of the same length



#### X-Cut<sup>®</sup> – 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



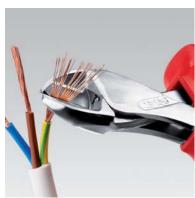
| Article No. | EAN<br>4003773- |                     | Ø mm | Ø mm | Ø mm | O<br>Ø mm | Ø mm | <b>∢</b> —►<br>mm |
|-------------|-----------------|---------------------|------|------|------|-----------|------|-------------------|
| 73 02 160   | 075127          |                     | 4.8  | 3.8  | 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

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#### 8



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<br>4003773- | Ømm | Ø mm | O<br>Ø mm | Ø mm | <b>∢</b> ►<br>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

- 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

|             |          |                |  | Cutting c | apacities       |             |
|-------------|----------|----------------|--|-----------|-----------------|-------------|
|             | EAN      |                |  |           | ♦               | <b>∢</b> —▶ |
| Article No. | 4003773- |                | Handles  | Ømm       | mm <sup>2</sup> | 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   | MM ≙1000 V 🖄 🗲 | insulated with multi-component grips, VDE-tested | 15        | 50              | 200         |

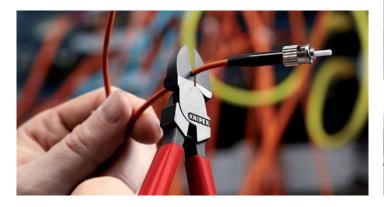


#### **Diagonal Cutter for fibre optics**

- 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<br>4003773- |    | Head     | Handles        | <b>∢</b> ►<br>mm |
|-------------|-----------------|----|----------|----------------|------------------|
| 72 51 160   | 028031          | MM | polished | plastic coated | 160              |



# <image>

#### 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



|             |          |    |     | Cutting C | apacities |     |         |
|-------------|----------|----|-----|-----------|-----------|-----|---------|
| A           | EAN      |    |     |           |           | 0   | <b></b> |
| Article No. | 4003773- |    | Ømm | Ømm       | Ømm       | Ømm | 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     |



Crimping of the end ferrule onto the traction cable



Crimping of the end caps on the Bowden cable sheath





#### **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<br>4003773- | Ø mm | Ø mm <sup>2</sup> | AWG | <b>∢</b> —►<br>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 |     |                  |  |
|---|------------|-----------------|-----------|-----------|-----|------------------|--|
| A | rticle No. | EAN<br>4003773- | Ø mm      | Ø mm²     | AWG | <b>∢</b> ►<br>mm |  |
| 9 | 5 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.

#### **Precision Insulation Strippers** with adapted blades

#### (PATENTED)

- form-fit stripping also of difficult-to-remove insulating materials made of PTFE, silicone, Radox®, Kapton® 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



Positive stripping thanks to precise shape of



Precise cutting of the insulation to a complete extent



12 12 06

| Article No. | EAN<br>4003773- |    | Stripping capacities<br>mm <sup>2</sup> | AWG     | <b>∢</b> ►<br>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              |



Automatic stripping of the insulation

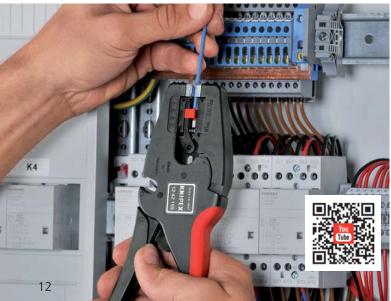


Two pairs of blades for form-fit stripping

#### MultiStrip 10 – Automatic Insulation Stripper

# 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



32 - 7

195

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





# Precision Electronics Diagonal Cutters ESD







79 02 125 ESD

79 22 125 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

R

- 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

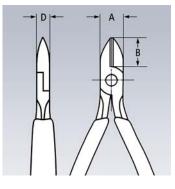






9 62 125 ES

|               |                 |    |           | Cutting o | apacities |           |         | Dimensions |         |                   |
|---------------|-----------------|----|-----------|-----------|-----------|-----------|---------|------------|---------|-------------------|
| Article No.   | EAN<br>4003773- |    | Ø mm      | Ø mm      | Ø mm      | O<br>Ø mm | B<br>mm | A<br>mm    | D<br>mm | <b>∢</b> —►<br>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               |





79 32 125 ESD



# 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



NEW

|                 |                 |    | Cutting capacities | D       | Dimensions |         |                   |
|-----------------|-----------------|----|--------------------|---------|------------|---------|-------------------|
| Article No.     | EAN<br>4003773- |    | Ø mm               | B<br>mm | A<br>mm    | D<br>mm | <b>∢—</b> ►<br>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.







Cut with 79 42 125 (without bevel)

Cut with 79 42 125 Z (flush cut)

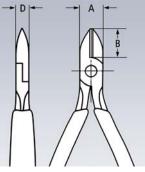


Cu-wire  $\emptyset$  1,3 mm

#### Electronic Super Knips® ESD

- 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 o | apacities |         | Dimensions |         |                 |
|---------------|-----------------|----|-----------|-----------|---------|------------|---------|-----------------|
| Article No.   | EAN<br>4003773- |    | Ø mm      | Ø mm      | B<br>mm | A<br>mm    | D<br>mm | <b>∢≻</b><br>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
- 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

#### 77 02 120 H ESD / 77 02 135 H ESD

# 



|  |                 |                          |      | Cutting c | apacities |           |                   |  |  |  |
|--|-----------------|--------------------------|------|-----------|-----------|-----------|-------------------|--|--|--|
| Article No.  | EAN<br>4003773- |                          | Ø mm | ●<br>Ø mm | ●<br>Ø mm | O<br>Ø mm | <b>∢</b> —►<br>mm |  |  |  |
| 77 02 120 H ESD  | 075813          | $\mathcal{M}\mathcal{M}$ | 2.0  | 1.4       | 1.0       | 0.6       | 120               |  |  |  |
| 77 02 135 H ESD  | 075837          | $\mathcal{M}\mathcal{M}$ | 2.2  | 1.6       | 1.2       | 0.8       | 135               |  |  |  |
| 77 32 120 H ESD  | 075820          | MM                       | 1.6  | 1.0       | 0.6       | 0.2       | 120               |  |  |  |
| 16   <b>F</b> flush cut <b>F</b> without bevel <b>F</b> with very small bevel <b>F</b> |                 |                          |      |           |           |           |                   |  |  |  |

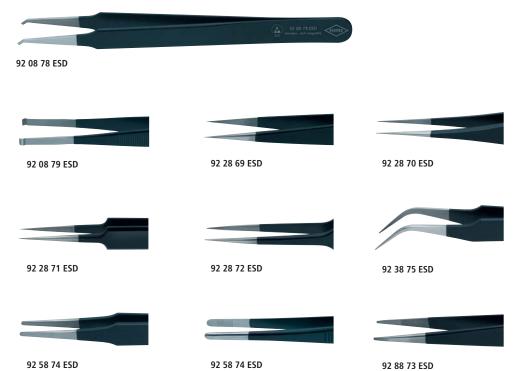
XAIPEX

🔫 with small bevel with bevel



#### **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<br>4003773- |              | Finish  | <b>∢</b> ►<br>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<br>4003773- |                  | Description       | <b>∢—</b> ►<br>mm |
|-------------|-----------------|------------------|-------------------|-------------------|
| 98 62 01    | 073956          | â 1000 V @ 🚰 📃 💷 | Flat Nose Pliers  | 180               |
| 98 62 02    | 073963          | ≙1000V @ 🔂 🖯 💷 🛄 | Snipe Nose Pliers | 220               |



## Mechanics' Pliers





38 21 200

38 31 200



38 41 190













|             |                 |                   |       | Dimensions |          |          |          |          |                  |
|-------------|-----------------|-------------------|-------|------------|----------|----------|----------|----------|------------------|
| Article No. | EAN<br>4003773- |                   | Style | L3<br>mm   | W3<br>mm | T1<br>mm | W4<br>mm | T2<br>mm | <b>∢</b> ►<br>mm |
| 38 11 200   | 035169          | $\ominus$ x x x   | 1     | 73.0       | 17.5     | 9.5      | 3.0      | 2.5      | 200              |
| 38 15 200   | 039594          | $\ominus$ x x x   | 1     | 73.0       | 17.5     | 9.5      | 3.0      | 2.5      | 200              |
| 38 21 200   | 035176          | <u>∡4</u> 0° ⊖ ∞∞ | 2     | 73.0       | 17.5     | 9.5      | 3.0      | 2.5      | 200              |
| 38 25 200   | 043669          | <u>∡4</u> 0° ⊖ ൽ  | 2     | 73.0       | 17.5     | 9.5      | 3.0      | 2.5      | 200              |
| 38 31 200   | 040712          | $\ominus$         | 3     | 73.0       | 17.5     | 9.5      | 3.0      | 2.5      | 200              |
| 38 35 200   | 017134          | $\ominus$ x x x   | 3     | 73.0       | 17.5     | 9.5      | 3.0      | 2.5      | 200              |
| 38 41 190   | 017141          |                   | 4     | 50.0       | 18.0     | 8.0      | 2.0      | 8.0      | 190              |
| 38 45 190   | 043676          |                   | 4     | 50.0       | 18.0     | 8.0      | 2.0      | 8.0      | 190              |
| 38 71 200   | 017202          | <u>∡70°</u> ⊖∞    | 7     | 73.0       | 17.5     | 9.5      | 3.0      | 2.0      | 200              |
| 38 91 200   | 017219          | <u>∡4</u> 5° ⊖ ൽ  | 9     | 73.0       | 17.5     | 9.5      |          | 2.5      | 200              |
| 38 95 200   | 017233          | <u>∡4</u> 5° ⊖ 🕸  | 9     | 73.0       | 17.5     | 9.5      |          | 2.5      | 200              |

high bending strength of the pliers jaws/tips

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









## Snipe Nose Side Cutting Pliers (Stork Beak Pliers)

Elastic tips: dimensionally st 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 ha
- Vanadium electric steel; forge oil-hardened

EAN 4003773

023142

Article No

26 12 200

**26 22 200** 023135

<u>∡4</u>0°

| ng Pliers<br>y stable<br>jaws<br>)<br>d hard wire 8<br>orged, 22 |           | 26 12 200 |          | ( and the second s |          |          | 26 22 200 |                   |  |  |  |
|--|-----------|-----------|----------|--|----------|----------|-----------|-------------------|--|--|--|
| Cutting c  | apacities |           |          | Dimer  | nsions   |          |           |                   |  |  |  |
| Ø mm   | Ø mm      | L3<br>mm  | L4<br>mm | T1<br>mm   | W3<br>mm | W4<br>mm | T2<br>mm  | <b>∢—</b> ►<br>mm |  |  |  |
| 3.2  | 2.2       | 73.0      |          | 9.5  | 17.5     | 3.0      | 2.5       | 200               |  |  |  |
| 3.2  | 2.2       | 73.0      | 23.0     | 9.5  | 17.5     | 3.0      | 2.5       | 200               |  |  |  |

#### **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<br>4003773- | L3<br>mm | W3<br>mm   | T1<br>mm | W4<br>mm | T2<br>mm | <b>∢</b> ►<br>mm |  |  |  |
| 28 01 200   | 044468          | 33.0     | 13.5       | 10.5     | 4.0      | 10.5     | 200              |  |  |  |



# **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

48 21 J21

48 11 12

#### **Style 1** DIN 5256 C, straight tips

Style 2 DIN 5254 B; 90° angled tips

**Style 3** DIN 5256 C, straight 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.



#### 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!



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<br>4003773- |              | Style | Size of bore<br>Ø mm | Tips-Ø<br>ca. mm | <b>∢—</b> ►<br>mm |
|-------------|-----------------|--------------|-------|----------------------|------------------|-------------------|
| 48 11 J0    | 048510          |              |       | 8 - 13               | 0.9              | 140               |
| 48 11 J1    | 048527          |              |       | 12 - 25              | 1.3              | 140               |
| 48 11 J2    | 048534          |              | 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          |              | 2     | 12 - 25              | 1.3              | 140               |
| 48 31 J2    | 073871          |              | 3     | 19 - 60              | 1.8              | 180               |





#### **Precision Circlip Pliers**

#### to assemble external circlips on shafts

With inserted tips for reliable work

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

#### Style 3

with overexpansion guard (adjustable DIN 5254 A; straight tips; using end stop); adjustment using Allen screw; ideal for series production

using end stop); adjustment using Allen screw; ideal for series production as excessive expansion of rings is effectively prevented

**Style 4** DIN 5254 B; 90° angled tips; with overexpansion guard

| Article No. | EAN<br>4003773- |              | Style | Size of shaft<br>Ø mm | Tips-Ø<br>ca. mm | <b>∢</b> ►<br>mm |
|-------------|-----------------|--------------|-------|-----------------------|------------------|------------------|
| 49 11 A0    | 048718          |              |       | 3 - 10                | 0.9              | 140              |
| 49 11 A1    | 048725          |              | 1     | 10 - 25               | 1.3              | 140              |
| 49 11 A2    | 048732          | MM           |       | 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          |              | 2     | 3 - 10                | 0.9              | 130              |
| 49 21 A11   | 048824          |              |       | 10 - 25               | 1.3              | 130              |
| 49 21 A21   | 048831          | <u>∡9</u> 0° |       | 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           | 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              |



#### 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.



## **Precision Circlip Pliers Set**

- tool roll made of hard-wearing polyester fabric
- with practical, adjustable quick release fastener
- contains four common Precision Circlip Pliers for highest requirements



# EAN Article No. 4003773- Content

**00 19 57** 050056

1 x 48 11 J1, 48 11 J2, 49 11 A1, 49 11 A2

#### **Precision Circlip Pliers Sets**

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



00 20 03 SB

| Article No. | EAN<br>4003773- | Content   |
|-------------|-----------------|---|
| 00 20 03 SB | 050100          | 1 x 48 11 J1, 48 11 J2, 49 11 A1, 49 11 A2  |
| 00 20 04 SB | 062417          | 1 x 48 11 J1, 48 11 J2, 49 11 A1, 49 11 A2, 48 21 J11,<br>48 21 J21, 49 21 A11, 49 21 A21 |

#### **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<br>4003773- |                |  | <b>∢—</b> ►<br>mm |
|--------------|-----------------|----------------|--|-------------------|
| 00 19 72 V01 | 072768          | Aviation-Minis |  |                   |
|              |                 | 86 05 150 S02  | KNIPEX Aviation Pliers Wrenches              | 150               |
|              |                 | 79 02 125 S1   | Diagonal Cutter for works on cable harnesses | 125               |



- 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





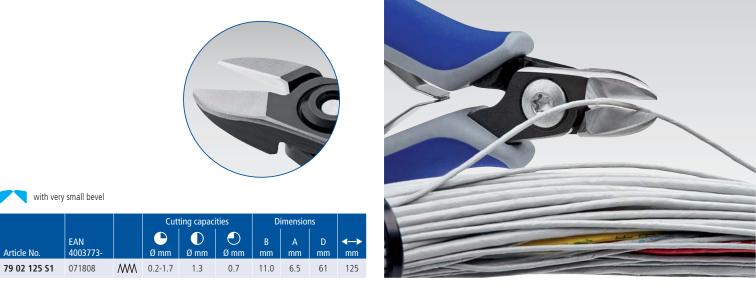
|  |               |                 |      |    |                         | Dimensions |          |          |                   |  |
|--|---------------|-----------------|------|----|-------------------------|------------|----------|----------|-------------------|--|
|  | Article No.   | EAN<br>4003773- | Inch | mm | Adjustment<br>positions | B1<br>mm   | B2<br>mm | B3<br>mm | <b>∢—</b> ►<br>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
- reduces the risk of damage to the insulation when making corrections to cable harnesses





#### 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

| Article No.  | EAN<br>4003773- |             | Adjustment positions | B1<br>mm | B2<br>mm | B3<br>mm | <b>∢</b> —►<br>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



KNIPEA







# 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



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<br>4003773- |         |        | Applications   | Capacity<br>mm <sup>2</sup> | AWG     | Number of crimping | <b>∢</b> ►<br>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 Loo | ator   |                             |         |                    |                  |

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