85 Smart Grip™, the Water Pump pliers with automatic adjustment

patented

DIN ISO 8976

85 01 250

- self-controlled adjustment on the workpiece simply by squeezing handles.
- ideal for frequent changeover to workpieces of different size
- one hand operation for right and left handed people
- locking lever for space saving transport with reliable closed handles
- slim dimensions - good access to the workpiece
- box-joint design
- self-locking on pipes and nuts: no slipping on the workpiece and low handforce required
- gripping surfaces with special hardened teeth, approx 61 HRC
- guard prevents fingers being pinched

special

KNIPEX

The adjustment procedure to match with the workpiece acts self-controlled with the SmartGrip™. Position the pliers, press handles – ready!

Automatic adjustment: *not time-consuming trial and error-adjusting of the correct opening size in case of differently sized workpieces (eg. the red high-lighted nuts and threaded connections). Everything done with a snatch*

Locking lever for space saving transport with reliable closed handles

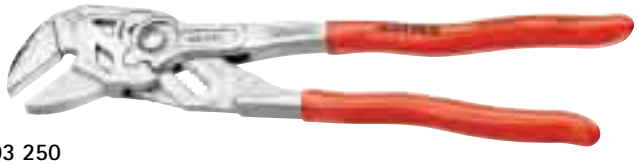
Slim dimensions for access to the workpiece using one-hand operation

Part No.	Head	Handles	Working capacity		Weight
Length			for pipes	for nuts	
mm			inch	mm (across flats)	g
85 01 250	polished	with non-slip plastic coating	1 1/4	36	340

86 Plier Wrenches, Plier and Wrench in a single tool

patented

86 03 180



86 03 250

86 03 300

86 07 250

- excellent for gripping, holding, pressing and bending workpieces
- for careful installation of finished-surface components
- zero backlash jaw surface pressure prevents damage to edges of sensitive components
- fast adjustment directly on the workpiece by pushing a button
- no unintentional shift of the gripping jaws and no slipping of the joint
- replaces a complete set of wrenches
- parallel jaws allow infinitely variable gripping of all widths to the specified maximum size
- the action of the jaws allows screwed connections to be tightened and released quickly using the ratchet principle
- lever transmission greater than 10 - 1 for strong gripping power
- also for tile breaking
- chrome vanadium electric steel, oil-hardened and tempered

Model 86 03 150:

- mini plier wrench for precision mechanics

special KNIPEX

The patented Plier Wrench is a multi functional fastening, gripping and holding tool with fast adjustment pushing a button. The high lever ratio, parallel jaws without profile and infinitely variable adjustment guarantee a secure and smooth gripping of the workpiece free from any backlash.

Working on plated fittings without damage of the surface

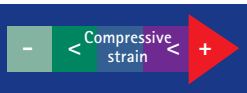
86 07 250 *scale for presetting the opening apart from the workpiece*

86 03 300 *enormous pressure and capacity up to 60 mm/ 2 3/8" allows application even on large size nuts*

Works using the ratchet principle

Fast adjustment by pushing a button

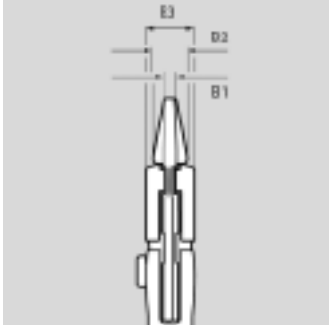
Compressive strain areas when force is applied on the Plier Wrench 86 03 250 and a conventional open end wrench



Plier Wrench: *zero backlash under pressure*

Conventional open end wrench: *edge pressure causes surface damage*

Part No.	Head	Handles	Working capacity		Dimensions B1	B2	B3	Weight
Length mm			inch	mm	mm	mm	mm	g
86 03 150	nickel plated	plastic coated	1	27	4.7	7.0	10.5	175
180			1 3/8	35	5.0	8.0	12.0	260
250			1 3/4	46	8.0	8.0	14.0	540
300			2 3/8	60	9.5	9.5	15.0	725
86 07 250	nickel plated	plastic dipped insulated 1000 V VDE-tested	1 3/4	46	8.0	8.0	14.0	600



87 KNIPEX Cobra® XL/XXL, Pipe Wrenches and Water Pump Pliers

patented

87 01 560

87 01 400

special

KNIPEX

Cobra® XXL – Water Pump Plier and Pipe Wrench in one tool. The optimized jaw design grips nuts and pipes up to 4 1/2" with a weight and size of a 2" Pipe Wrench. Besides the tremendous capacity this heavy duty plier is adjustable quickly, securely and firmly directly on the workpiece.

- Pipe Wrench and Water Pump Plier in one tool
- self-locking on pipes and nuts: no slipping on the workpiece; low handforce required
- fast and firm adjustment directly on the workpiece
- no unintentional shifting
- non-slip joint
- fine adjustment
- optimum lever action
- can be used as a wrench in a lot of situations
- gripping surfaces with special hardened teeth, teeth hardness approx. 61 HRC: low wear and secure gripping
- chrome vanadium electric steel, oil-hardened and tempered

Model 87 01 400:

- capacity of jaws for pipes up to 3 1/2" at a total length of a 1 1/2" Pipe Wrench
- 20% less weight than a 1 1/2" Pipe Wrench
- 27 adjustment positions

Model 87 01 560:

- capacity of jaws for pipes up to 4 1/2" at a total length of a 2" Pipe Wrench
- 40% less weight than comparable Pipe Wrenches
- 20 adjustment positions

Fine adjustment by pushing a button: *quick and comfortable*

Optimized shape of jaws for gripping pipes and nuts

87 01 560 *jaw-capacity for pipes upto 4 1/2" at a weight and length of a 2" Pipe Wrench*

Fast and firm adjustment directly on the workpiece

Self-locking on pipes and nuts. No slipping on the workpiece and less handforce required

Part No.	Length mm	Head	Handles	Working capacity for pipes inch	Working capacity for nuts mm (across flats)	Weight g
87 01 400		polished	plastic coated	3 1/2	95	1190
87 01 560				4 1/2	120	2760

87 KNIPEX Cobra®, the HiTech Water Pump Pliers

patented

DIN ISO 8976

87 01 125

87 01 150

87 01 180

87 01 250

87 01 300

87 02 250

87 05 250

- fast adjustment directly on the workpiece: fast and comfortable handling
- fine adjustment: ensures optimum adjustment to differently sized workpieces and user-friendly handle position;

8701125: 13 adjustment positions
8701150: 11 adjustment positions
8701180: 11 adjustment positions
8701250: 25 adjustment positions
8701300: 30 adjustment positions
8701400: 27 adjustment positions

- secure catching of the hinge bolt: no unintentional shifting
- box-joint design: high stability because of double guide
- 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 secure gripping one-hand adjustment
- guard prevents operators' fingers being pinched
- favourable lever action: optimum transmission of force
- chrome vanadium electric steel, oil-hardened and tempered

special

KNIPEX

KNIPEX Cobra® – the HiTech Water Pump Pliers.
No more time-consuming test-adjusting of the correct opening size. Just position the upper jaw to the workpiece, push button and close the lower jaw, ingeniously simple.

Model 87 01 150:
- mini- "Cobra",
- length only 150 mm

Model 87 01 125:
- for use in hobbies, housework and precision mechanics
- improved access in very confined spaces

Self-locking on pipes and nuts. No slipping on the workpiece and less handforce required

Fine adjustment by pushing a button: *quick and comfortable*

Fast and firm adjustment directly on the workpiece

Part No.	Length mm	Head	Handles	Working capacity for pipes inch	Working capacity for nuts mm (across flats)	Weight g
87 01 125		polished	with non-slip plastic coating	1	27	85
87 01 150				1 1/4	30	135
87 01 180				1 1/4	30	160
87 01 250				2	46	300
87 01 300				2 3/4	60	515
87 01 400		polished	plastic coated	3 1/2	95	1205
87 01 560				4 1/2	120	2740
87 02 180		polished	with two colour dual component handles	1 1/4	30	185
87 02 250				2	46	360
87 02 300				2 3/4	60	565
87 03 250		chrome plated	with non-slip plastic coated	2	46	320
87 05 250		chrome plated	with two colour dual component handles	2	46	340

Operation on pneumatic pipes

87 KNIPEX Cobra®..matic, Water Pump Pliers for one-hand operation

patented

DIN ISO 8976

- with automatic adjustment
- the plier can be opened and adjusted directly at the workpiece with one hand

- KNIPEX Cobra®..matic closes when pushing a button
- the integrated spring of the automatic adjustment is shielded in the handles
- gripping surfaces with special hardened teeth, teeth hardness approx. 61 HRC: low wear and secure gripping
- chrome vanadium electric steel, oil-hardened and tempered

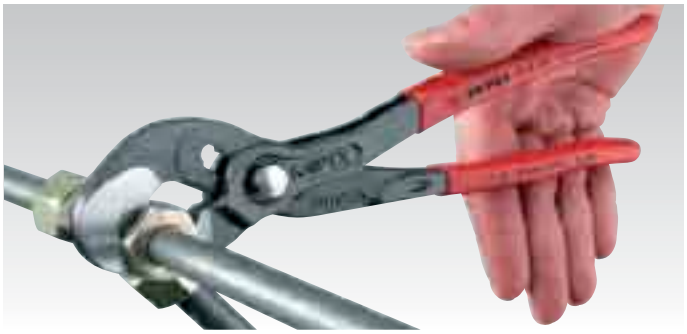
87 11 250

Part No.	Length mm	Head	Handles	Working capacity for pipes inch	Working capacity for nuts mm (across flats)	Weight g
87 11 180		polished	with non-slip plastic coating	1 1/4	30	170
87 11 250				1 1/2	36	300

87 Multiple Slip Joint Spanner

patented

87 41 250



Self-locking: *no slip on workpieces; less effort required*

Multiple Slip Joint Spanner as the second spanner for tightening locknuts

Working on tight nuts with rounded edges

Fine adjustment by pushing a button: *fast and comfortable*

- for hexagonal screws and nuts width across flats 10 - 32 mm (3/8" - 1 1/4"); self-locking in the range of 17 - 32 mm (11/16" - 1 1/4"); no slip on workpieces; less effort required
- replaces a complete set of spanners
- perfect fitting grip on bolt heads and nuts with metric or imperial sizes; no rounding of gripping surfaces
- the plier-type gripping movement of the jaws allows threaded connections to be tightened and released quickly using the ratchet principle
- ideal for tightening locknuts
- secure and tight grabbing of bolt heads with rounded edges, rusted nuts or heavily coated workpieces
- secure catch of the hinge bolt: no unintentional shifting
- box-joint design: high stability
- because of double guide
- guard prevents operators' fingers being pinched
- ergonomic handle design with non-slip plastic coating for comfortable grip particularly with large and tight nuts

special KNIPEX

The new KNIPEX Multiple Slip Joint Spanner is a combination tool that offers the convenience of the comfortable push-button adjustment on the workpiece and the function of an adjustable spanner.
Zero backlash pressure of the jaws avoids slipping on the threaded connection or a rounding effect on the edges. Even rounded edges and heavily coated workpieces that do not offer a convenient gripping surface to conventional wrenches, can be loosened with the exceptionally powerful gripping jaws of the Multiple Slip Joint Spanner.

- one-hand fine adjustment by pushing a button with 15 adjustment positions directly on the workpiece for perfect grip on different sized workpieces and a favourable position of the hand
- chrome vanadium steel, oil-hardened and tempered

Part No.	Length mm	Head	Handles	Capacity mm	Capacity inch	Weight g
87 41 250		polished	plastic coated	10 - 32	3/8" - 1 1/4'	315

87 KNIPEX Cobra® ES, the Extra Slim Water Pump Pliers

patented

DIN ISO 8976

87 51 250

- particularly good access to the workpiece due to very slim construction of head and joint area
- long, narrow jaws
- ideal for service and maintenance, equipment repair, automotive and general industry
- one-hand fine adjustment by pushing a button with 19 adjustment positions directly on the workpiece for perfect grip on different sized workpieces and a favourable position of the hand
- secure catching of the hinge bolt: no unintentional shifting
- box-joint design: high stability because of double guide
- firm grip also on flat material due to three-point rest
- 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 secure gripping
- favourable lever action: optimum transmission of force
- guard prevents operators' fingers being pinched
- chrome vanadium electric steel, oil-hardened and tempered

special

KNIPEX

Subject to the increasing compactness of components and machines the workspace becomes more confined. However, the requirements on the gripping force and capacity of tools on the other hand do not decrease. KNIPEX Cobra® ES allows powerful gripping in confined areas.

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

Grips nuts up to 42 mm (1 5/8") across flats

Very slim construction in the complete head and joint area (compared to conventional water pump pliers)

Part No. Length mm	Head	Handles	Working capacity for pipes inch	for nuts mm (across flats)	Weight g
87 51 250	polished	with non-slip plastic coating	1 1/4	42	325

89 Water Pump Pliers with groove joint

DIN ISO 8976

89 01 250

- easy, convenient engagement in 5 different positions due to milled swivel
- non-slip joint
- can be used as a wrench in a lot of situations
- all strain removed from the joint screw, hence no wear on pivot
- guard prevents operators' fingers being pinched
- gripping surfaces with special hardened teeth, teeth hardness approx. 61 HRC for tool length 250 mm: low wear for secure grip
- chrome vanadium electric steel, oil-hardened and tempered

Model 89 01 250:

- self-locking on pipes and nuts: no slipping on the workpiece and low handforce required

Part No. Length mm	Head	Handles	Capacity for pipes inch	for nuts mm (across flats)	Weight g
89 01 200	polished	plastic coated	1 1/4	30	230
250			1 5/16	36	335

88 KNIPEX Alligator® Water Pump Pliers

DIN ISO 8976

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

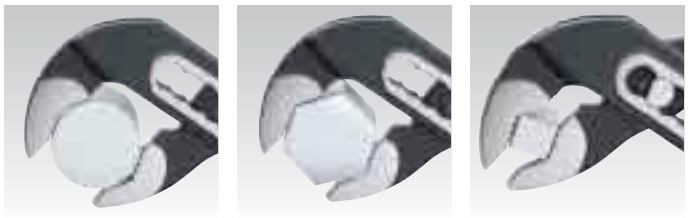
88 01 250

88 02 250

88 06 250

88 07 250

Self-locking on pipes and nuts. No slipping on the workpiece and less handforce required



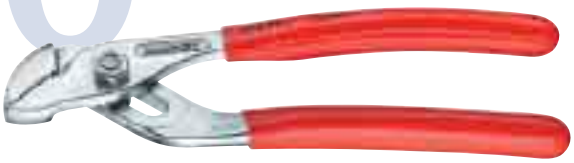
Optimized shape of jaws for gripping pipes and nuts

Part No.	Length mm	Head	Handles	Adjustment positions	Capacity for pipes inch	Capacity for nuts mm (across flats)	Weight g
88 01	180	polished	with non-slip plastic coating	7	1 1/4	30	185
	250			9	2	46	320
	300			7	2	46	505
88 02	180	polished	with two-colour dual component handles	7	1 1/4	30	215
	250			9	2	46	355
	300			7	2	46	555
88 03	180	chrome plated	with non-slip plastic coating	7	1 1/4	30	185
	250			9	2	46	315
88 05	300	chrome plated	with two-colour dual component handles	7	2	46	555
88 06	250	chrome plated	insulated with two-colour dual component handles 1000 V VDE-tested	9	2	46	375
88 07	250	chrome plated	plastic dipped insulated 1000 V VDE-tested	9	2	46	420

90 Small Water Pump Pliers, with groove joint

DIN ISO 8976

- easy, convenient engagement in 4 different positions
- all strain removed from the joint screw, hence no wear on pivot
- non-slip joint
- forged from chrome vanadium electric steel, oil-hardened and tempered



90 03 125

Part No.	Length mm	Head	Handles	Capacity for pipes mm	Capacity for nuts mm (across flats)	Weight g
90 01	125	polished	plastic coated	17	14	100
90 03	125	chrome plated	plastic coated	17	14	100

90 Hose and Pipe Cutters

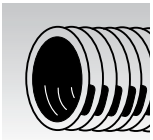
90 20 185

- for cutting thin walled plastic pipes (e. g. armoured plastic pipes) and flexible hoses, also with fabric reinforcment, of plastic and rubber up to 25 mm dia. / 1" exterior dia.
- not suitable for cutting cables
- exchangeable blade
- with opening spring and locking lever
- tool made of tough fibreglass reinforced plastic
- blade made of high-strength special grade steel, oil-hardened and tempered

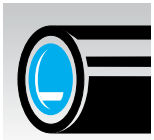
Part No.	Head	Handles	Cutting capacity mm	Cutting Edge Length mm	Weight g
90 20 185	chrome plated	tough fibreglass reinforced plastic handles	25	25	172
90 29 185		spare blade for 90 20 185			

90 Pipe Cutters for composite pipes and protective tubes

90 25 20



Protective tube:
to be cut with the front blades



Composite pipe:
to be cut with the rear cutter

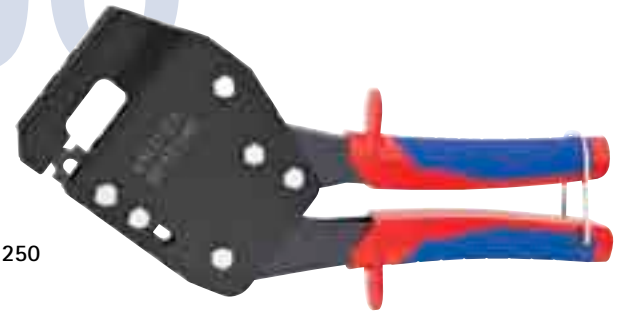
- for cutting composite pipes with a diameter of 12.0 - 25.0 mm and for cutting flexible protective tubes with a diameter of 18.0 – 35.0 mm without damaging the pipe inside
- exchangeable blades
- a calibration arbor can be fitted, for example for Geberit composite pipes with 11.5 and 15.0 mm dia.
- galvanized head, with two-colour dual component handles
- high strength special grade steel, oil-hardened and tempered

Clean cut of protective tubes 18 – 35 mm dia.

Composite pipes of 12 – 25 mm dia. are cut cleanly and without deformation

Part No.	Head	Handles	Cutting capacity composite pipes mm	protective pipes mm	Length mm	Weight g
90 25 20	galvanized	with two-clour dual component handles	12 - 25	18 - 35	210	325
90 29 01		spare blade for composite pipes				

90 Punch Lock Riveters



90 42 250

- for producing solid connections of all metal section sheets used in partition walls and false ceilings
- for U- and C-shaped sections with max 1.2 mm metal (2 x 0.6 mm)
- minimum handforce required due to optimum lever transmission
- high strength special grade steel, oil-hardened and tempered
- for one hand operation

Setting the plier for connection of two metal section sheets

The punching tool is pressed through the metal section sheets

The sheet projections are bent

Completed sheet connection

Part No.	Length mm	Head	Handles	Capacity mm	Weight g
90 42 250		burnished	with two-colour dual component handles	max 1.2 (2x 0.6)	676

90 Sheet Metal Nibbler

90 55 280

- for cutting iron, copper or aluminium plate up to max. 1.2 mm thickness, plastic up to max. 2.0 mm thickness
- materials are cut without deformation
- clean cut edges - no additional work needed on the cut profile
- with chip breaker
- easy handling
- nickel plated head, with plastic handles
- high strength special steel, particularly stressed parts oil-hardened and tempered

Part No.	Length mm	Head	Handles	Weight g
90 55 280		nickel plated	with plastic handles	560
90 59 280		spare blade		

90 55 280 *notching and chip breaking in one operation*

Notching without chip breaking

90 Revolving Punch Pliers

90 70 220

- for punching holes in leather, textiles and plastic material
- with six interchangeable punches: 2.0/2.5/3.0/3.5/ 4.0/5.0 mm dia.
- with opening spring and locking lever
- powder-coated for reliable protection against rust
- punched and stamped from high-strength sheet steel

Interchangeable punches

Part No.	Length mm	Finish	Weight g
90 70 220		powder-coated	265

92 Precision Tweezers

92 04 120

92 34 36

45°

92 44 42

- universally applicable

92 04 120/145:
- straight pattern
- blunt-wide tips
- gripping surfaces with fine serration
- spring steel

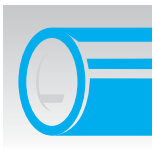
92 34 36;
- straight pattern
- narrow 45° bent tips
- gripping surfaces with fine serration
- chequered handles

92 44 42:
- jewellers' tweezers
- wide, round tips. approx.2mm
- gripping jaws with fine crosswise serration (cross cut)
- chequered handles

Part No.	Finish	Length mm	Weight g
92 04 120	mirror-finish nickel plated and polished	120	15
145		145	25
92 34 36	nickel plated	120	23
92 44 42	nickel plated	140	21

94 Cutter for Plastic Pipes, for electrical installation

94 10 185



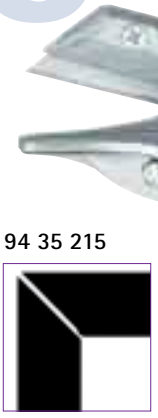
6 - 35 mm dia

- for clean cutting of plastic pipes (e.g. plastic clad pipes) with 6 - 35 mm dia.
- **not suitable for cutting cables**
- blade is replaceable and can be retracted in any position
- low force requirement due to special blade geometry and optimum transmission
- minimum operator fatigue due to ergonomic handle design and ratchet blade feed in stages
- die-cast aluminium body, red lacquered

Part No.	Length mm	Finish	Capacity Ø mm	Weight g
94 10 185			6.0 - 35.0	560
94 19 185		spare blade		50

94 Mitre Shears, for plastic and rubber sections

94 35 215



- for crushing-free cutting of plastic, rubber and soft timber section; also for ribbon cable up to 56 mm width
- exchangeable cutting base with fence angle for 45°-cuts and markings for 60°-, 75°- and 90°- cuts
- replaceable, conventional trapezoidal blade
- with opening spring and locking device
- handles and blade mounting made of high-strength special grade steel

Part No.	Length mm	Head	Handles	Blade length mm	Weight g
94 35 215		chrome plated	plastic coated	56	400
94 19 215		spare blade			50

95 Combination/Cable Shears

95 05 140

95 05 190

- combination shears for cutting cardboard, plastics, aluminium, brass and copper foils
- **not suitable for steel wire or iron sheets**
- precision ground, hardened blades
- with opening spring and locking lever
- with guard
- adjustable screw joint
- blades made of stainless steel
- oil-hardened and tempered

Part No.	Length mm	Head	Handles	Weight g
95 05 140		bright polished	with plastic handles	50
95 05 190				120

95 Cable Shears

95 11 165

95 12 165

95 16 165

- for cutting copper and aluminium cables, single and multiple wire
- **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
- with guard
- adjustable screw joint, self-locking
- forged
- special tool steel, oil-hardened and tempered

Model 95 11/12 165:
- universal use for dismantling and stripping

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

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

Part No.	Length mm	Head	Handles	Cutting capacity Ø mm	mm²	AWG	Weight g
95 11 165		burnished	plastic coated	15	50	1/0	210
95 12 165		burnished	with two-colour dual component handles	15	50	1/0	245
95 16 165		chrome plated	insulated with two-colour dual component handles **1000 V** VDE-tested	15	50	1/0	255

95 Cable Shears

95 05 165

95 06 230

- **not suitable for steel wire and hard drawn copper conductors**
- precision ground, hardened blades
- no crushing, slight deformation of the cable only
- with guard
- adjustable screw joint

Model 95 05 165:
- cable shears for universal use; cuts cables up to 10 mm dia. / 24 mm²
- with opening spring and locking lever
- blades made of stainless steel
- oil-hardened and tempered

Model 95 06 230:
- for copper conductors single wire up to 16 mm², multiple wire up to 50 mm², fine strand up to 70 mm² and aluminium conductors multiple wire up to 70 mm²
- easy cutting with one-hand operation due to high transmission ratio
- stainless - special grade - steel, oil hardened and tempered
- VDE tested according to DIN EN/IEC 60900: 2004

Part No.	Length mm	Head	Handles	Cutting capacity Ø mm	mm²	AWG	Weight g
95 05 165		bright polished	with plastic handles	10	24	3	115
95 06 230		bright polished	plastic insulated 1000 V VDE-tested	16	50	1/0	275

95 Cable Shears with opening spring

95 21 165

95 22 165

95 26 165

- ergonomically designed for relief of the arm muscles
- for fatigue-reduced cutting of copper and aluminium cables
- **not suitable for steel wire and hard drawn copper conductors**
- oil-hardened, precision ground blades
- clean and smooth cut without crushing and deformation
- easy cutting with one-hand operation
- with guard
- adjustable self-locking screw joint
- special high-grade tool steel, forged, oil-hardened

Oil-hardened precision ground blades for smooth and clean cuts

A more comfortable way for repetitive cutting

Part No.	Length mm	Head	Handles	Cutting capacity Ø mm	mm²	AWG	Weight g
95 21 165		burnished	plastic coated	15	50	1/0	215
95 22 165		burnished	with two-colour dual component handles	15	50	1/0	255
95 26 165		chrome plated	insulated with two-colour dual component handles 1000 V VDE-tested	15	50	1/0	275

95 Cable Shears, with twin cutting edge

patented

95 11 200

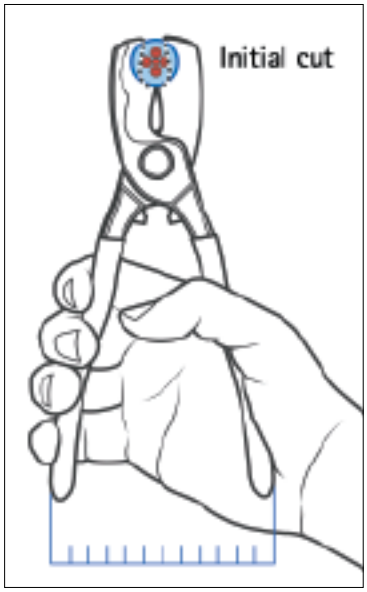
95 16 200

- for cutting copper and aluminium cables, single and multiple wire
- **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
- initial and final cut (upper and lower blade) allows cables of up to 20 mm dia. to be cut
- low handforce required due to favourable lever ratio and new blade geometry
- with guard
- adjustable screw joint, self-locking
- forged
- special tool steel, oil-hardened and tempered

special KNIPEX

KNIPEX Cable Shears with twin cutting edge are designed for cutting cables up to 20 mm diameter. Even in case of large cable cross sections handles are always in a favourable position due to initial and final cut.

Part No.	Length mm	Head	Handles	Cutting capacity Ø mm	mm²	AWG	Weight g
95 11 200		burnished	plastic coated	20	70	2/0	295
95 16 200		chrome plated	insulated with two-colour dual component handles **1000 V** VDE-tested	20	70	2/0	345

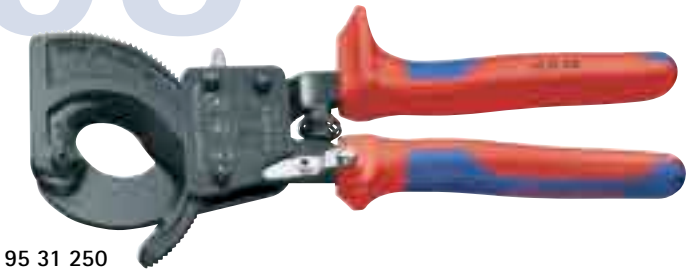


Initial cut: *using the upper cutting edge, an ergonomic handle opening is guaranteed even in case of large cable diameters*

Final cut: *if higher handforce is required, an additional cut can be done with the cutting edge profile near the joint. Initial cut with the upper cutting edge – final cut with the lower cutting edge*

95 Cable Cutters, Ratchet Action

patented



95 31 250

95 31 280

95 36 250

- for cutting copper and aluminium cables, single and multiple wire
- **not suitable for steel wire and wire ropes**
- precision ground, hardened blades
- clean and smooth cut without crushing and deformation
- one-hand operation using ratchet principle
- little handforce required due to optimum transmission ratio
- two-stage ratchet drive for easy cutting
- simple handling as a result of low weight and compact design - can be used even in confined areas
- with guard
- special grade tool steel

Model 95 31 250/280:

- fixed handle with support area for putting down the plier when cutting

Model 95 31 280:

- suitable for aluminium sector cable up to 4 x 150 mm²

special

KNIPEX

Cutting thicker cables usually requires a high handforce. KNIPEX Ratchet Cable Cutters facilitate this work by means of a two-stage ratchet drive and a handle with support (model 95 31) The cable cutter can be rested on a solid ground so that additional body weight can be applied to reduce lower arm musculature fatigue.

Part No.	Length mm	Head	Handles	Cutting capacity Ø mm	mm²	MCM	Weight g
95 31 250		lacquered	with two-colour dual component handles	32	240	500	575
95 31 280				52	380	750	750
95 36 250		lacquered	insulated with two-colour dual component handles 1000 V VDE-tested	32	240	500	560
95 36 280				52	380	750	735
95 39 250		spare moving blade for 95 31 250 & 95 36 250					130
95 39 280		spare moving blade for 95 31 280 & 95 36 280					260

95 31 280 Large cutting capacity:
maximum 52 mm dia. / 380 mm²

Ratchet principle and two-stage ratchet drive for easier cutting.

97 KNIPEX MultiCrimp®

97 33 01

97 33 02

- one tool for the most common crimping applications
- quick and easy exchange of the crimping dies without any additional tool
- for solder-free electrical connections
- repetitive, high crimping quality due to precision dies and integral lock with very fine adjustment (self-releasing mechanism)
- interchangeable profiles are securely held in the tool
- head burnished, two-colour dual component handles

Model 97 33 01:
- crimping pliers with round magazine and 3 interchangeable profiles

Model 97 33 02:
- Crimping pliers with round magazine and 5 interchangeable profiles

Secure attachment of the dies in the pliers by reliable locking system

Crimping dies are marked with a pictogram: visible in the magazine and the pliers

Catch for exchange of crimping dies

Part No.	Range of application		Capacity		Length	Weight
			mm²	AWG	mm	g
97 33 01		non-insulated, open plug-type connectors	0.5 - 6.0	20 - 10	250	755
		insulated terminals and plug connectors	0.5 - 6.0	20 - 10		
		End Sleeves (ferrules)	0.25 - 6.0	23 - 10		
97 33 02		non-insulated, open plug-type connectors	0.5 - 6.0	20 - 10	250	855
		insulated terminals and plug connectors	0.5 - 6.0	20 - 10		
		End Sleeves (ferrules)	0.25 - 6.0	23 - 10		
		non-insulated terminals and plug connectors	0.5 - 10.0	20 - 7		
		non-insulated butt connectors	1.5 - 10.0	15 - 7		

Round magazine with belt clip: *interchangeable dies are always ready to hand*

97 Self-Adjusting Crimping Pliers for End Sleeves (ferrules)

with lateral access, patented

97 53 04

square crimp

0.08 - 10.0mm²

97 53 14

hexagonal crimp

0.08 - 6.0mm²

- for crimping end sleeves (ferrules) according to DIN46228 parts 1 + 4
- for solder-free electrical connections
- lateral loading of the end sleeves (ferrules) into the tool
- simple handling as a result of self-adjustment to the size of the end sleeve (ferrule)
- repetitive, high crimping quality due to integral lock (self-releasing mechanism)
- these tools have been set precisely (calibrated) in the factory
- optimum transmisson of force due to lever action for fatigue-reduced operation
- high operation comfort thanks to handy shape and low weight
- all stressed parts are made of special steel, oil-hardened and tempered

special KNIPEX

The Self-Adjusting Crimping Pliers for end sleeves (ferrules) adjusts automatically to the connector size desired in one profile. This means comfortable, reliable and fast crimping.

Model 97 53 04:

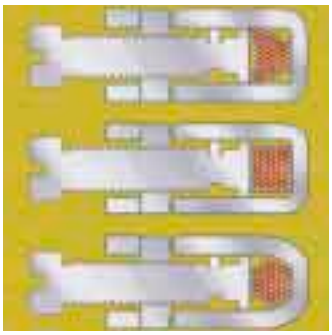
- square crimping for optimum contact areas in the clamp connection

Model 97 53 14:

- heaxagonal crimping for optimum positioning in confined areas

Part No.	Range of application	Capacity mm²	Capacity AWG	Length mm	Weight g
97 53 04	end sleeves (ferrules)	0.08 - 10	28 - 7	180	380
97 53 14	end sleeves (ferrules)	0.08 - 6.0	28 - 10	180	400

Square-crimped end sleeves (ferrules) ensure good contact zones regardless of the position in the terminal connector



The section shows clearly that the square crimping produces a better contact than the trapezoidal crimping.
The hexagonal crimping comes close to the space saving round shape and guarantees optimum contact in narrow round terminal connectors, in contrast to square crimping of the same cross-section

97 KNIPEX PreciForce® Crimping Pliers

97 52 33

97 52 35

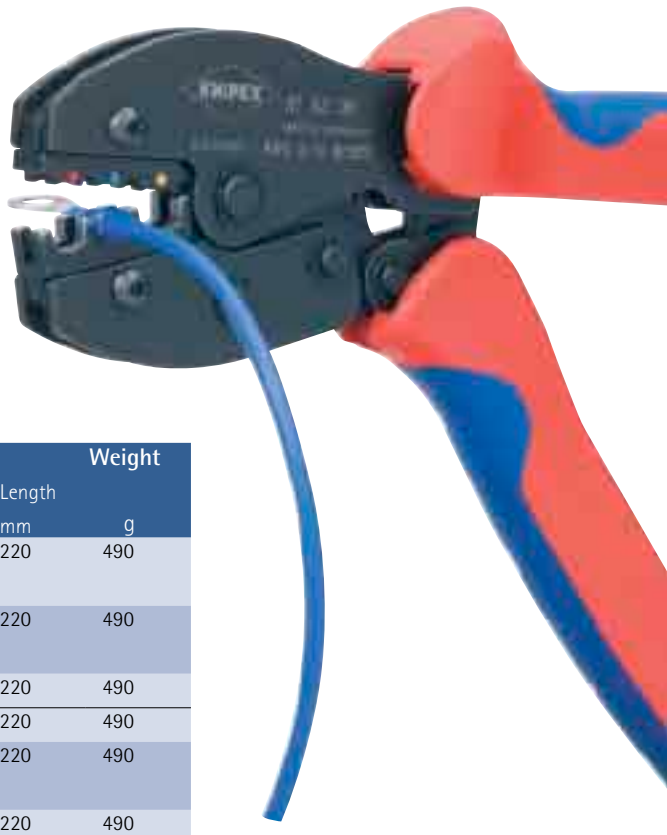
97 52 36

- for solder-free electrical connections conforming to standards
- repetitive, standard conforming high crimping quality due to precision dies and integral lock (self-releasing mechanism)
- these tools have been set precisely (calibrated) in the KNIPEX factory
- high transmission of force thanks to lever action for fatigue-reduced working
- good handling thanks to favourable handle position, low weight, short design and ergonomically shaped handles
- all stressed parts are made of special steel, oil-hardened and tempered
- head burnished, handles with two-colour dual component sleeves

special

KNIPEX

The new Crimping Pliers provide an amazing high leverage despite the compact size and very good handling – particularly favourable for larger crimp cross sections.

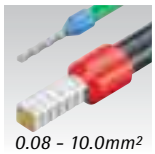


Part No.	Range of application	Capacity		Length	Weight
		mm²	AWG	mm	g
97 52 30	non-insulated butt connectors	1.5 - 10.0	15 - 7	220	490
97 52 33	non-insulated terminals and plug conectors	0.5 - 10.0	20 - 7	220	490
97 52 34	non-insulated open plug-type conectors 2.8+4.8mm / 2.8+6.3mm	0.1 - 2.5	27 - 13	220	490
97 52 35		0.5 - 6.0	20 - 10	220	490
97 52 36	insulated terminals and connectors	0.5 - 6.0	20 - 10	220	490
97 52 38	end sleeve (ferrules)	0.25 - 6.0	23 - 10	220	490
97 52 50	COAX-BNC-connectors RG 58, 174, 188, 316			220	490

97 Self-Adjusting Crimping Pliers for End Sleeves (ferrules)

with front loading, patented

97 53 08



square crimp

0.08 - 10.0mm²

- for crimping end sleeves (ferrules) according to DIN 46228 parts 1 + 4
- for solder-free electrical connections
- front loading of the end sleeves (ferrules) into the tool
- simple handling as a result of self-adjustment to the size of the end sleeve (ferrule)
- with square crimping for optimum contact areas in the clamp connection
- repetitive, high crimping quality due to precision dies and integral lock (self-releasing mechanism)

special KNIPEX

The Self-Adjusting Crimping Plier for end sleeves (ferrules) with front and lateral loading allows secure and comfortable working even in confined areas.

- optimum transmisson of force due to lever action for fatigue-reduced operation
- high operation comfort thanks to handy shape and low weight
- all stressed parts are made of special steel, oil-hardened and tempered
- crimping from 0.08 - 10.0 mm² in one profile
- end sleeves (ferrules) up to 2.5mm² can also be loaded parallel from the side

Part No.	Range of application	Capacity		Length	Weight
		mm²	AWG	mm	g
97 53 08	end sleeves (ferrules)	0.08 - 10	28 - 7	190	475

Front loading of end sleeves (ferrules) e. g. in switchboards

97 53 08: *lateral loading of end sleeves (ferrules) e. g. in confined areas*

Square crimping for optimum contact zones

97 Crimping Pliers for End Sleeves (ferrules)

97 71 180

- for crimping end sleeves (ferrules) according DIN 46228 parts 1 + 4 from 0.25 to 16 mm²
- crimping in marked half-round dies for secure connections between the sleeve and the conductor
- 9 extremely deep troughs with conical side faces
- special tool steel, oil-hardened and tempered

Part No.	Length mm	Head	Handles	Range of application	Capacity		Weight
					mm²	AWG	g
97 71 180		polished	plastic coated	end sleeves (ferrules)	0.25 - 16.0	23 - 5	265