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480 Bolt croppers



NEW

"New generation" Facom pliers

New process, better performance

Advantages

- ▶ Designed and manufactured in our own factory
- ▶ On numerically-controlled robotic production machines
- ▶ Machined after heat treatment



N ▶ 382

NEW

"High performance" nippers

Reduced cutting effort

Advantages

- ▶ Clean cut
- ▶ Maximum cutting power
- ▶ Optimum accessibility

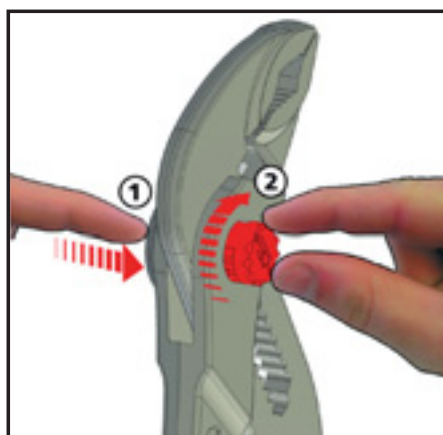


N ▶ 408

New pivot pin Improved performance

Advantages

- ▶ Equal comfort for large hands or small.
- ▶ Double the number of positions.
- ▶ Operator safety



N 373



► Locking multigrip pliers

New

181 Locking twin slip-joint multigrip pliers

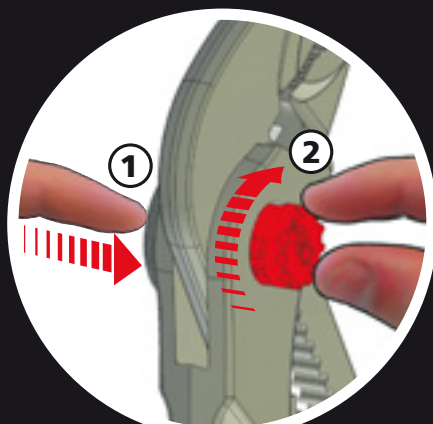


Example for 181.25 pliers

Handle travel adjusts to suit your hand!



NEW PIVOT PIN NEW PERFORMANCE!



② = 1/2 tour

Equal comfort for large hands and small.

- The pivot pin allows you to adjust handle travel to suit the size of your hand.

More force, less fatigue!

Double the number of positions.

- Twice the number of positions, for more accurate adjustment.

Optimum grip on the workpiece!

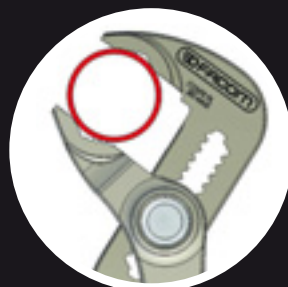
Quick, permanent push-button adjustment.



Operator safety

- Gap reduced for increased torsional strength,

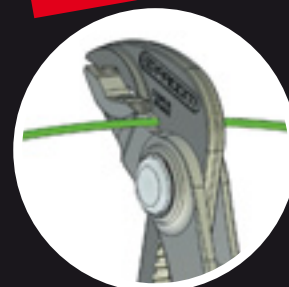
Guaranteed strength and grip!



Teeth self-gripping on pipes.



Designed to grip nuts without damage.



Integral wire-cutter.

New!

Possible number of positions :

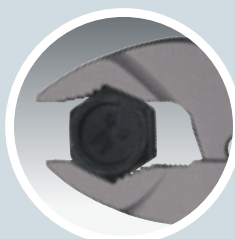
180 mm model : 10 notches = 20 positions / 250 mm : 12 notches = 24 positions / 300 mm : 14 notches = 28 positions.



SLIP-JOINT MULTIGRIP PLIERS

SELF-TIGHTENING PLIERS

- Teeth self-gripping on pipes.
- Tightens and loosens nuts without damage.
- Capacity : 46 mm.
- Safe : finger protection.
- Riveted pivot.



Engineers multigrip pliers

181 Locking twin slip-joint multigrip pliers

- ▷ ISO 8976, DIN ISO 8976, NF ISO 8976.
- Fast, precise push-button adjustment with safety lock.
- Reduced gap :
 - Reduced play.
 - high torsional strength.
- 62 HRc high-frequency treated jaws.
- Finger protection.
- 181.CPE : Chrome finish, ergonomic grips.
- 181.TE : Varnish finish, ergonomic grips.
- 181.G : Varnish finish, PVC grips.

181.18G



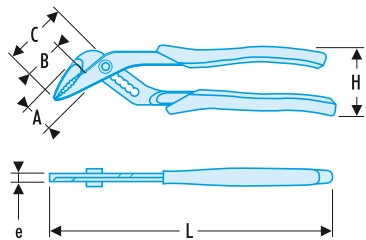
181.25CPE



181.18TE



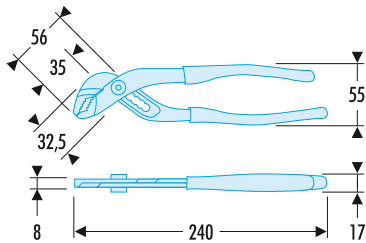
	L mm	Tube capacity Ø mm	Hex capacity mm	A mm	B mm	C mm	D mm	E mm	ΔΔ g
181.18CPE	185	36	36	24	24	48	22	7,5	270
181.25CPE	250	42	41	33,8	28	55	22	7,5	400
181.18TE	185	36	36	24	24	48	22	7,5	270
181.25TE	250	42	41	33,8	28	55	22	7,5	400
181.18G	180	36	36	24	24	48	14,5	7,5	250
181.25G	245	42	41	33,8	28	55	14,5	7,5	370
181.30G	304	49	46	40,6	33	79	16,3	9	740



Standard multigrip pliers

170A

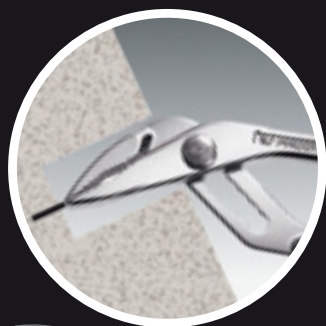
- ▷ ISO 8976, DIN ISO 8976, NF ISO 8976.
 - PVC sheathed spatula handle for user comfort.
- ΔΔ : 310 g.



► Standard multigrip pliers

180

SLIP-JOINT MULTIGRIP PLIERS - RIVETED PIVOT PIN



IDEAL FOR CONFINED SPACES !

- Long slim nose for improved reach in confined spaces.
- 7 positions.
- Capacity (parallel jaws): 44 mm.

44 mm



Safe

- Finger clearance.
- Insulated VE model for working on or near live components up to 1,000V AC.
- To european standard **EN 60900**.

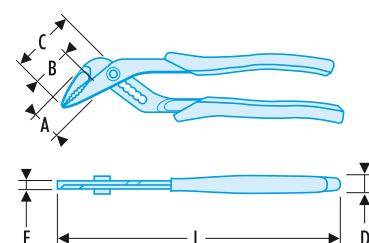
180 High-performance multigrip pliers

► ISO 8976, DIN ISO 8976, NF ISO 8976.

- Double heat-treated tips; High wear resistance, hardness 60/62 HRC.
- 4 options :
 - 180.CPE : Chrome finish, ergonomic grips.
 - 180.TE : Varnish finish, ergonomic grips.
 - 180 : chrome finish.
 - 180 VE : Varnish finish, 1,000V insulated grips designed for electrical safety to EN 60900 and , for working on or near live components.



	A mm	B mm	C mm	D mm	E mm	L mm	ΔΔ g
180.CPE	30	35	58	22	8	250	360
180.TE	30	35	58	22	8	250	360
180	30	35	58	14	8	250	320
180.VE	30	35	58	22	8	250	360
	Description						
180A.SE	Spare pivot pin						

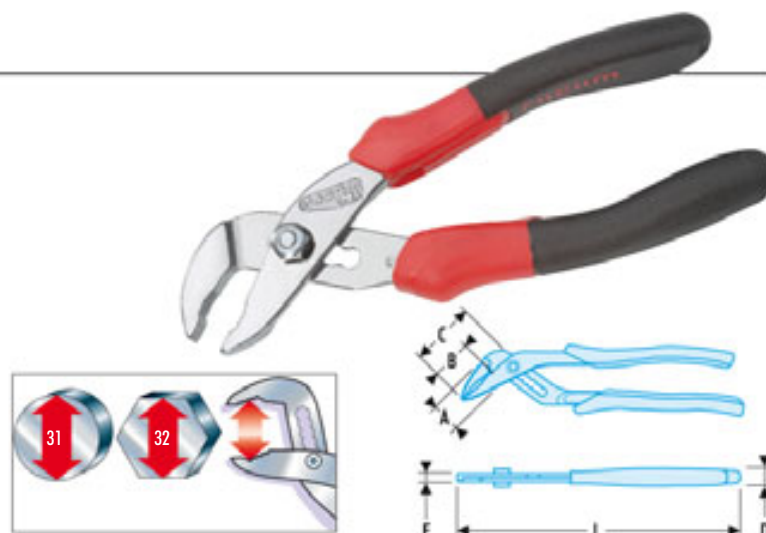


Engineers multigrip pliers

176A "Junior" pliers

176A.CPY : Polished chrome finish, comfortable grips.

	A	B	C	e	H	L	ΔΔ
	mm	mm	mm	mm	mm	mm	g
176A.CPY	23,5	23	40	5.6	45	165	160



"Mammoth" pliers

182A.CP

- Powerful, two-handed use ideal for heavy engineering and farm machinery.
 - Forged and hardened to 48 HRC.
 - Thick-gauge jaws withstand torsion.
 - 7 settings.
 - Chrome finish, polished tips.
 - Capacity 58 mm.
- ΔΔ : 810 g.



	Description
182A.CP	Spare pivot pin

► Twin slip-joint multigrip pliers

484 Twin slip-joint multigrip pliers

- ISO 8976, DIN ISO 8976, NF ISO 8976.
 - Inter-slotted jaws distribute load either side of central pin, in two heavy-gauge slots, for optimum safety and durability.
 - 7 settings.
 - Satin finish.
- 484A : capacity 34 mm.
484A.30, capacity 43 mm.

	e	A	B	C	H	L	ΔΔ
	mm	mm	mm	mm	mm	mm	g
484A	7,0	33	38	60	50	240	345
484A.30	9,5	38	40	66	52	300	560

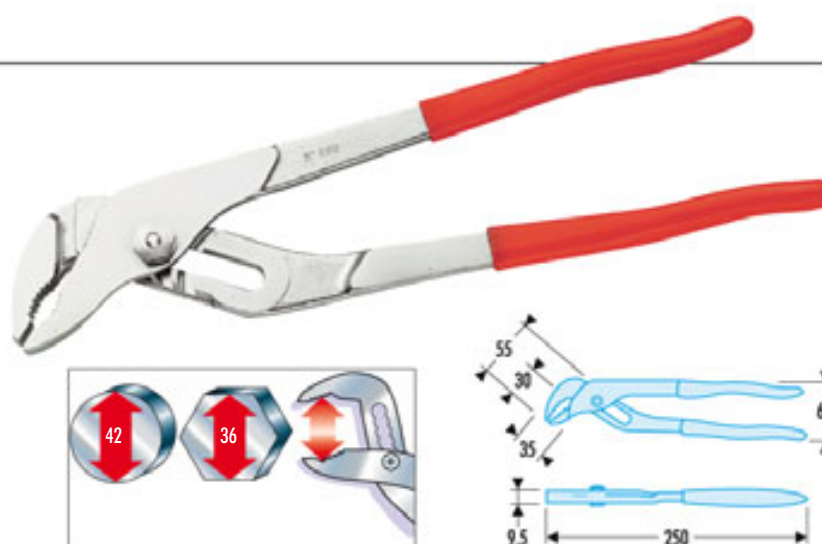


► Notch-joint multigrip pliers

Notch-joint multigrip pliers

480.ECG

- ISO 8976, DIN ISO 8976, NF ISO 8976.
 - Undercut arcs :
 - Positive engagement of notches provides high power.
 - Pivot pin is not load bearing.
 - Smooth adjustment.
 - 5 settings.
 - Chrome finish, red PVC grips.
- ΔΔ : 320 g.



482 Notch-joint multigrip pliers

▷ ISO 8976, DIN ISO 8976, NF ISO 8976.

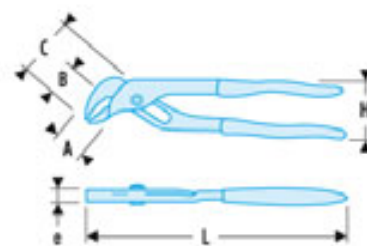
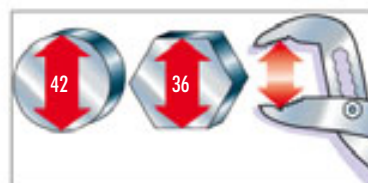
- Undercut arcs :
- Positive engagement of notches provides high power.
- Pivot pin is not load bearing.
- Self-gripping teeth.
- 5 settings.
- Presentation :
- CPE model : Chrome finish, ergonomic grips.
- EG model : Burnished finish, red PVC grips.

	e mm	A mm	B mm	C mm	H mm	L mm	ΔΔ g
482.CPE	9,5	35	30	55	60	255	365
482.EG	9,5	35	30	55	60	255	320

482.CPE



482.EG

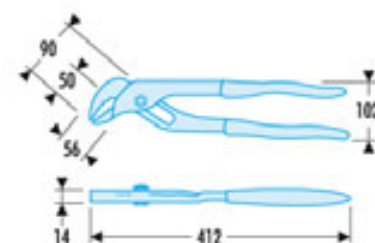
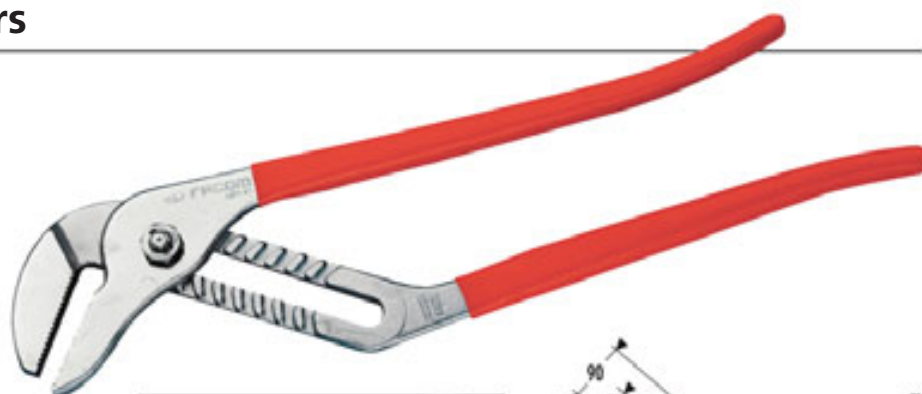


"Extra-wide capacity" straight-jaw pliers

481.40

- 11 positions.
- Notch joint.
- Straight serrated jaw.
- Chrome finish, PVC grips.
- Capacity : 105 mm.

ΔΔ : 1.1 kg.



Automatic multigrip pliers

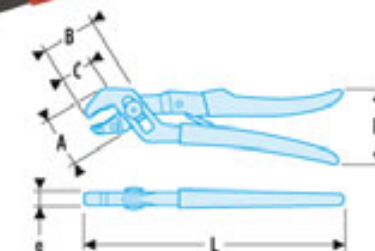
485 Automatic multigrip pliers

- Burnished finish. PVC grips.

485.17 : Capacity Ø 28 mm, 23 mm.

485.23 : Capacity Ø 45 mm, 38 mm.

	e mm	A mm	B mm	C mm	H mm	L mm	ΔΔ g
485.17	7	28	23	42	42	170	150
485.23	10	40	30	57	70	230	380



Self-adjusting multigrip pliers

FAST ADJUSTMENT

Instant automatic setting
with one hand while
clamping.



Electrical engineers pliers

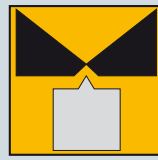


Precision cutters

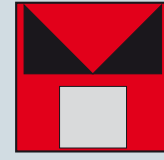
3 TYPES OF CUT :



AXIAL
Hard cutting edges
for all materials.



SEMI-FLUSH
Clean cut in semi-
hard materials.



FLUSH
Smooth burr-free
finish.

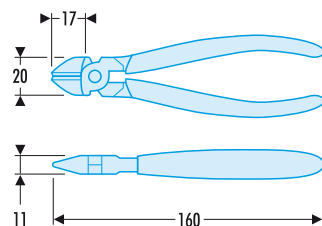
▶ Cutting pliers

"Compact" diagonal cutters

405.15

▷ ISO 5749, DIN ISO 5749, NF ISO 5749.

- Capacity :
- hard wire 160 kg/mm² : Ø 1.6 mm
- semi-hard wire 100 kg/mm² : Ø 1.8 mm.
- Varnished finish, red PVC grips.
- ΔΔ : 195 g.



Diagonal cutters

▷ ISO 9654, DIN ISO 9654, NF ISO 9654.

- 405 : Axial cut.
- 416 - 435 : Semi-flush cut, slim nose.
- 425 : Flush cut, nose extended 13 mm.
- Matt burnished finish, red grips - opening spring.



405



425



435

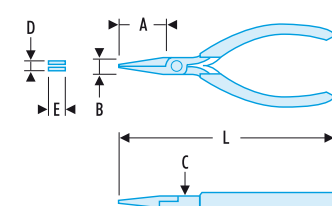
	Ø max mm Cu-Ni	FE 100 Kg/mm ²	A mm	B mm	C mm	L mm	ΔΔ g
405.12	2,0	1,0	16,0	16,0	8	120	95
405.10	1,4	0,8	11,5	10,5	7	110	60
435	1,3	0,7	13,0	10,5	7	110	60
416	1,0	0,5	11,5	10,5	7	110	60
425	1,2	/	13,0	10,5	7	110	60

▶ Flat nose pliers

401 - 421 Flat nose pliers

▷ ISO 9655, DIN ISO 9655, NF ISO 9655.

- Smooth jaws with contoured inside edges to protect components.
- Matt burnished finish, red grips.



	A mm	B mm	C mm	D mm	E mm	L mm	ΔΔ g
401	48	14	8	1	5	160	80
421	33	11	7	1	5	130	70

▶ Half-round nose pliers

Half-round nose pliers

▷ ISO 5745, DIN ISO 5745, NF ISO 5745.

- 402 : Short smooth jaws.
- 442 : short serrated jaws with side wire-cutter (2 mm dia. copper, 1 mm dia. steel 100 Kg/mm²).
- 403 : Short jaws, angled 40°.
- Matt burnished finish, red grips - opening spring.



403



402

	A mm	B mm	C mm	D mm	L mm	ΔΔ g
402	48	14	8	1,5	160	76
442	42	14	8	3,8	150	88
403	45	14	8	1,2	155	75

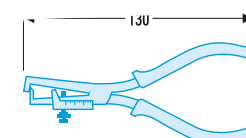
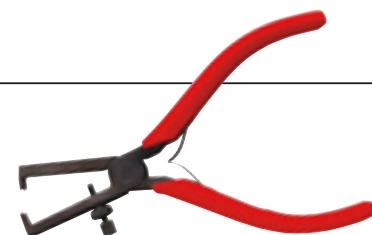
▶ Wire strippers

Fine wire strippers

194.12

- Max. AWG 14.
- For light-gauge wire.
- Narrow blades.
- Cutting depth presetting.
- Burnished finish, PVC grips.
- Ø 1.5 mm single and multi-core wire.
- Cross section 1.8 mm².

ΔΔ : 70 g.





Facom cutting pliers

PERFORMANCE !

Facom's cutting pliers are designed to meet the 3 main requirements of professional users.

1- One tool for cutting all materials

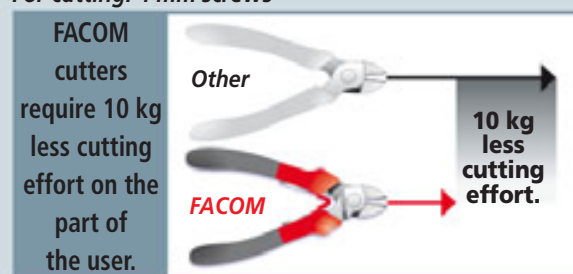
- FACOM's universal cutters can cut cleanly through all types of materials: copper wire, semi-hard wire, hard wire, piano wire, steel strip, nylon strip, binding wire, bronze wire, Ertalon, etc....

2- A reduced cutting effort

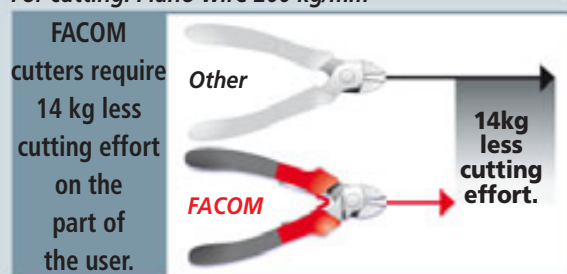
Facom cutting pliers reduce the cutting effort by 20% :

- Optimised cutting-edge geometry - Long lever arm - Pivot pin offset as close as possible to the cutting edges.

For cutting: 4 mm screws



For cutting: Piano wire 200 kg/mm²



3- Durable cutting power

Very high resistance to wear when used to cut hard wire or subject to intensive use.

- FACOM cutters are made of high strength steel for maximum durability.

The cutting edges are double heat treated.

- Very hard cutting edges: 61/63 HRC.
- CHROME-MOLYBDENUM-VANADIUM steel.

Cutting capacity

(Max. diameter of wires in "mm" – Tensile strength in "kg/mm²")

200 kg/mm ² Piano wire		160 kg/mm ² Hard wire		80 kg/mm ² Semi-hard wire	
	Ø max		Ø max		Ø max
192	: 2.0 mm	391	: 1.6 mm	405	: 1.0 mm
190	: 2.0 mm	193	: 1.6 mm	436	: 0.7 mm
187	: 2.0 mm	185	: 1.6 mm	416	: 0.5 mm
171	: 2.5 mm	195	: 1.6 mm		
191A	: 2.5 mm	183	: 1.6 mm		
405.12	: 0.8 mm	491	: 3.6 mm		

Copper (electrical fitters cutters)

	Ø max		Ø max		Ø max
391	: 3.5 mm	435	: 1.3 mm	425	: 1.2 mm
405	: 2.0 mm	416	: 1.0 mm		

Plastic

	395	396
---	-----	-----

Four levels of finish

- CPE series chromed
- TE series varnished
- VE-VSE series 1000 Volts insulated
- G series PVC-coated



Série CPE Chrome-finished pliers



Return spring



Résistance

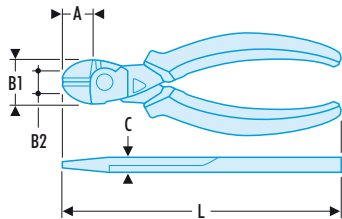
High-performance materials chosen for their resistance to workshop chemicals (skydrol, chlorotene, acetone, petrol, etc...).

Diagonal cutters

192.CPE High-performance diagonal cutters

- ISO 5749, DIN ISO 5749, NF ISO 5749.
- Cutting edges designed to cleanly cut all types of wire : Piano wire, soft wire and modern materials
- Long lever arm, offset pivot for minimum cutting effort.
- High durability Chrome-Molybdenum-Vanadium steel, very hard cutting edges 61/63 HRC.

	Ø max mm 200 kg/mm ²	Ø mm Cu	A mm	B mm	C mm	L mm	ΔΔ g
192.14CPE	1,5	0,7 - 3,0	15,5	21,5	9,5	145	160
192.16CPE	2,0	0,7 - 4,0	18	24	10	160	200
192.18CPE	2,2	0,7 - 4,5	20	26	11	180	260
192.20CPE	2,5	0,7 - 5,0	22	28	11,5	200	320

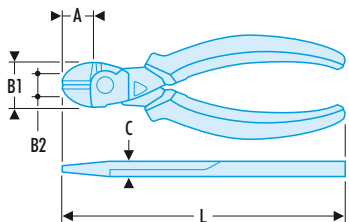


Electricians diagonal cutters

391.16CPE

- ISO 5749, DIN ISO 5749, NF ISO 5749.
- Snipe nose for confined spaces (electrical cabinets, wiring).
- Semi-flush cutting edges, designed to cleanly cut through all types of wire : Hard wires (max. 160 kg/mm²), thin copper wires, modern materials
- Long lever arm, offset pivot for minimum cutting effort.
- High durability Chrome-Molybdenum-Vanadium steel, very hard cutting edges 61/63 HRC.

	160 kg/mm ²	Ø mm Cu	B mm	A mm	C mm	L mm	ΔΔ g
391.16CPE	1,6	0,7 - 3,5	19	21	9	165	190

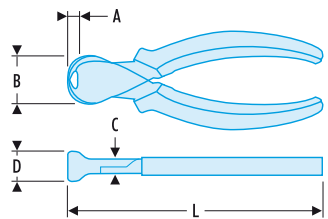


End cutters

190.CPE High-performance end cutters

- ISO 5748, DIN ISO 5748, NF ISO 5748.
- Cutting edge designed to cleanly cut piano wire, hard and soft wire.
- Long lever arm, offset pivot for minimum cutting effort.
- High durability Chrome-Molybdenum-Vanadium steel, very hard cutting edges 61/63 HRC.

	Ø max mm 200 kg/mm ²	A mm	B mm	C mm	D mm	L mm	ΔΔ g
190.16CPE	1,6	6,5	28	11,5	23	160	200
190.20CPE	2	7,5	31	13,5	29	200	340





Facom half-round nose pliers



A COMPREHENSIVE RANGE TO SUIT EVERY NEED

High-performance.

Facom's half-round nose pliers are precision made -machined on numerically-controlled robotic production machinery. For gripping and manipulating all types of components or wires, even in difficult-to-reach places. Perfectly finished, with no sharp edges.

Straight and 40° angled short-nose pliers.

- Narrow, finely serrated tips (0.5mm pitch), with a side wire-cutter.

Straight and 40° angled long-nose pliers.

- Reinforced, serrated tips (0.8mm pitch), with a tube grip and side wire-cutter. For mechanics, industrial maintenance, automotive trades, etc. Finishes CPE and TE.
- Narrow, finely serrated tips (0.5mm pitch), with a side wire-cutter. For electricians, electrical fitters, delicate tasks. Finishes G and VE (1,000 V insulated - EN60900).

Guaranteed cutting accuracy and consistency.

- For cleanly cutting thin copper wire and modern materials, hard wires (max. 1.6mm diameter at 160 kg/mm²).



► Half-round nose pliers

185-195.CPE Long half-round nose pliers

- ▷ ISO 5745, DIN ISO 5745, NF ISO 5745.
- Narrow, finely serrated tips with a pipe-grip.
 - Side cutter for copper and hard steel wire (max 160 kg/mm²).
- 185 : Straight nose.
195 : 40° angled nose.

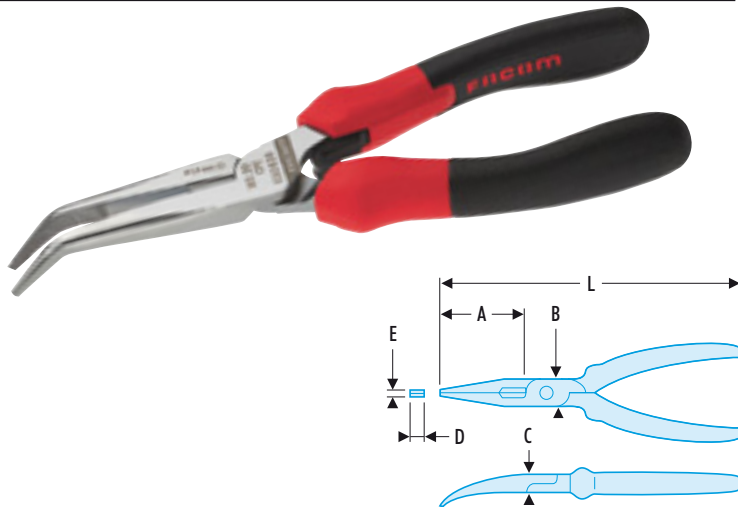


➤	Ø max mm Cu	Ø maxi mm 160 kg/mm²	D x E mm	A mm	B mm	C mm	L mm	ΔΔ g
185.20CPE	0,7 - 3,5	1,6	2,9 x 3,6	75	18	9	200	192
195.20CPE	0,7 - 3,5	1,6	2,9 x 3,6	69	18	9	200	192

Half-round long snipe-nose pliers

183.20CPE

- ▷ ISO 5745, DIN ISO 5745, NF ISO 5745.
- Narrow, finely serrated tips.
 - Side cutter for copper and hard steel wire (max 160 kg/mm²).
 - 40° angled nose.



➤	Ø max mm Cu	Ø maxi mm 160 kg/mm²	D x E mm	A mm	B mm	C mm	L mm	ΔΔ g
183.20CPE	0,7 - 3,5	1,6	2,5 x 3,0	69	18	9	200	185

193 - 195.CPE Short half-round nose pliers

- ▷ ISO 5745, DIN ISO 5745, NF ISO 5745.
- Narrow, finely serrated tips.
 - Side cutter for copper and hard steel wire (max 160 kg/mm²).
- 193 : Straight nose.
195 : 40° angled nose.

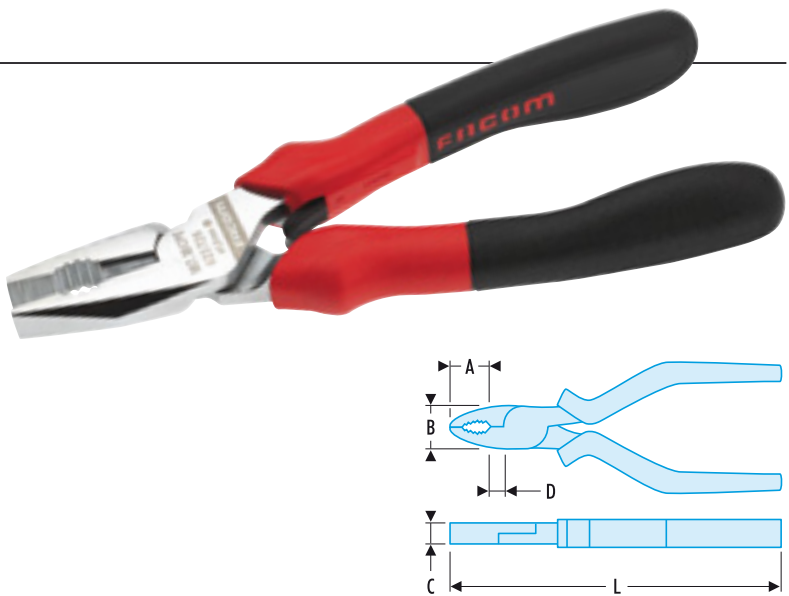


➤	Ø max mm Cu	Ø maxi mm 160 kg/mm²	D x E mm	A mm	B mm	C mm	L mm	ΔΔ g
193.16CPE	0,7 - 3,0	1,6	2,5 x 3,0	50	17	9	160	177
195.16CPE	0,7 - 3,0	1,6	2,5 x 3,0	50	17	9	160	177

► Combination pliers

187.CPE Combination pliers

- ▷ ISO 5746, DIN ISO 5746, NF ISO 5746.
- Cutting edges designed to cut all types of wire : Piano wire, soft wire and modern materials.
 - Long lever arm, offset pivot for minimum cutting effort.
 - High durability Chrome-Molybdenum-Vanadium steel, very hard cutting edges 61/63 HRc.



➤	Ø max mm Fe wire 200 kg/mm²	A mm	B mm	C mm	D mm	L mm	ΔΔ g
187.16CPE	1,6	34	21	9,5	12	165	195
187.18CPE	1,8	36	23	10	13	185	225
187.20CPE	2	42	26	11,5	15	205	300



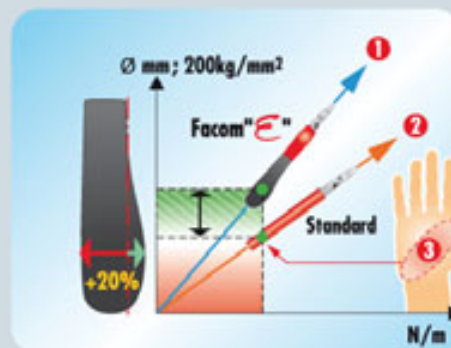


Series "E" pliers



ERGONOMIC

Non-slip spatula-shaped pressure area



- The ergonomic features of series "E" pliers represent the culmination of an intensive programme of testing and analysis of tools in service, with additional support from specialist ergonomics laboratories.
- Extended contact area and asymmetric profile fit naturally in the hand. Reduced risk of repetitive strain injury, inflammation and fatigue, especially in intensive use.



Guard

- Firm, comfortable grip for pushing or pulling pressure.



Spring

- Comfort and precision. The spring wedges the handles snugly between fingers and palm.

Three levels of finish

CPE series chromed

TE series varnished

VE series 1,000 V insulated



Highly resistant materials

- Materials used for handles are chosen for their resistance to workshop chemicals (Skydrol, chlorothene, acetone, petrol, etc.). Spring tested to over one million cycles.



Safety

Facom 1,000 V insulated safety pliers meet the requirements of European standard

EN 60900

See the "VE" series range of 1,000 V insulated tools, p.

368

1000VOLTS
EN 60900

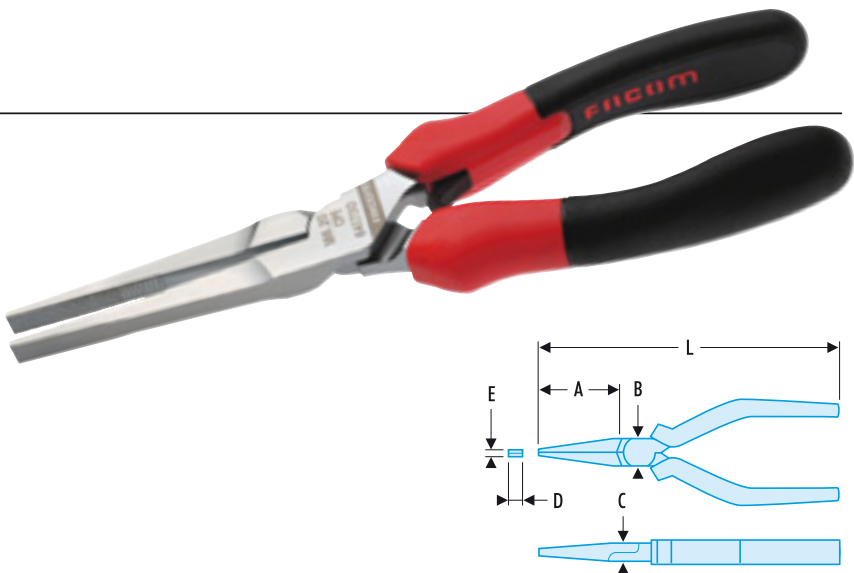


► Flat nose pliers

188.CPE Flat nose pliers

- ISO 5745, DIN ISO 5745, NF ISO 5745.
- Serrated jaws for a firm grip.
 - 188.E : Snipe nose version for confined spaces.

	A mm	B mm	C mm	D x E mm	L mm	ΔΔ g
188.16CPE	46	18	9	6,5 x 4,0	168	140
188.20CPE	75	18	9	6,5 x 4,0	200	200
188E.16CPE	46	18	9	3,5 x 2,5	168	130



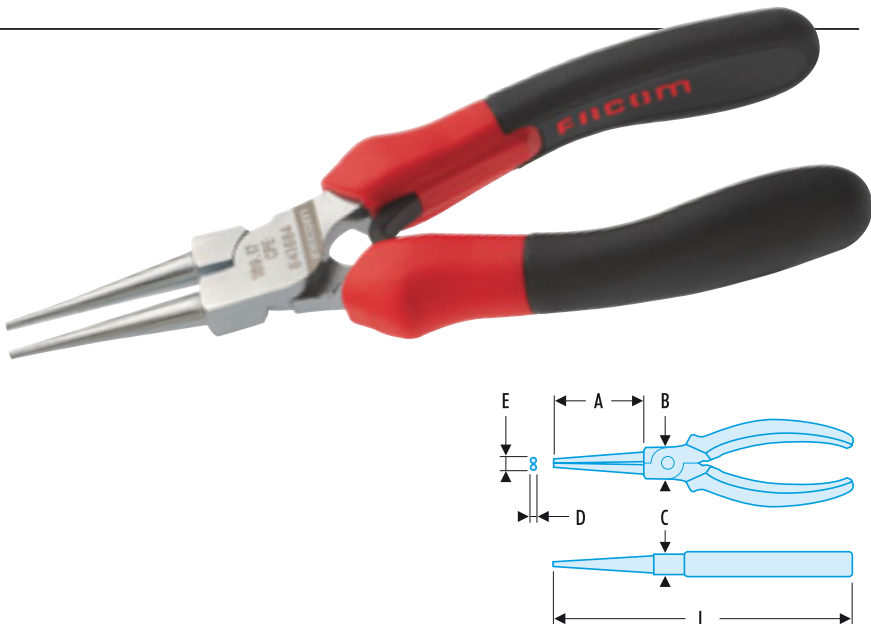
► Round-nose pliers

Round nose pliers

189.17CPE

- ISO 5745, DIN ISO 5745, NF ISO 5745.
- For shaping loops, bends or rings.
 - Finely serrated jaws for positive grip.
 - Ø at end of each tip : 2 mm.

	A mm	B mm	D x E mm	C mm	L mm	ΔΔ g
189.17CPE	41	18	2 x 4	9	170	135



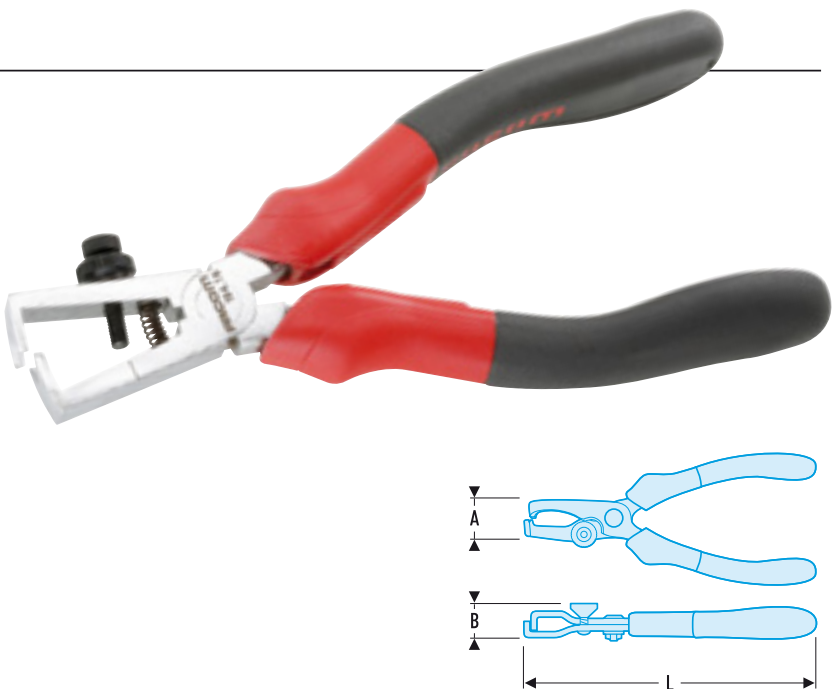
► Standard wire strippers

Wire stripper

189.17CPE

- 194.17: Standard forged pliers.
- For single and multi-core wires 0.5 to 6 mm².
 - Knurled adjustment screw with locknut.
 - Metal return spring

	⊙ ⊗ mm²	A mm	B mm	L mm	ΔΔ g
194.17CPE	0,5 - 6	17	8.5	170	185



► Diagonal cutters

8E

Varnished, polished pliers



Ergonomic !

- **Spatula-shaped pressure area**
20% more slip-resistant
Maximum comfort.
Reduced pressure on the hand.
- **Return spring**
Comfort and precision.
The spring naturally wedges the handles snugly between fingers and palm.
- **Guard**
Designed to provide a firm, comfortable grip for pushing or pulling pressure.



Resistant

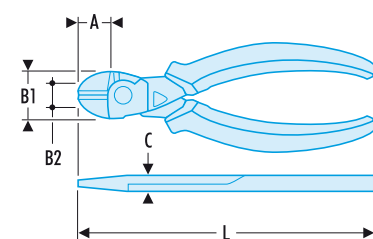
Sleeves made of high-performance materials chosen for their resistance to chemicals High-performance materials chosen for their resistance to workshop chemicals (Skydrol, chlorothene, acetone, petrol, etc...).

192.TE High-performance diagonal cutters

► ISO 5749, DIN ISO 5749, NF ISO 5749.

- Cutting edges designed to cleanly cut all types of wire : Piano wire, soft wire and modern materials.
- Long lever arm, offset pivot for minimum cutting effort.
- High durability Chrome-Molybdenum-Vanadium steel, very hard cutting edges 61/63 HRC.

	Ø max mm 200 kg/mm ²	Ø mm Cu	A mm	B mm	C mm	L mm	ΔΔ g
192.14TE	1,5	0,7 - 3,0	15,5	21,5	9,5	145	160
192.16TE	2,0	0,7 - 4,0	18	24	10	160	200
192.18TE	2,2	0,7 - 4,5	20	26	11	180	260
192.20TE	2,5	0,7 - 5,0	22	28	11,5	200	320



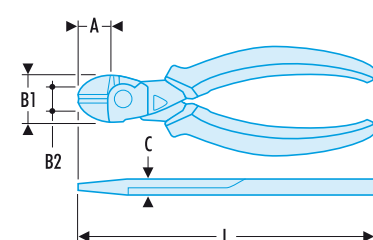
Electricians diagonal cutters

391.16TE

► ISO 5749, DIN ISO 5749, NF ISO 5749.

- Snipe nose for confined spaces (electrical cabinets, wiring). Semi-flush cutting edges, designed to cleanly cut through all types of wire : Hard wires (max. 160 kg/mm²), thin copper wires, modern materials.
- Long lever arm, offset pivot for minimum cutting effort.
- High durability Chrome-Molybdenum-Vanadium steel, very hard cutting edges 61/63 HRC.

	160 kg/mm ²	Ø mm Cu	B mm	A mm	C mm	L mm	ΔΔ g
391.16TE	1,6	0,7 - 3,5	19	21	9	165	190



► Half-round nose pliers

185-195.TE Long half-round nose pliers

► ISO 5745, DIN ISO 5745, NF ISO 5745.

- Narrow, finely serrated tips with a pipe-grip.
- Side cutter for copper and steel wire (max 160 kg/mm²).

185 : Straight nose.

195 : 40° angled nose.

	Ø mm		D x E mm	A mm	B mm	C mm	L mm	ΔΔ g
	Cu	160 kg/mm ²						
185.20TE	0,7 - 3,5	1,6	2,9 x 3,6	75	18	9	200	192
195.20TE	0,7 - 3,5	1,6	2,9 x 3,6	69	18	9	200	192



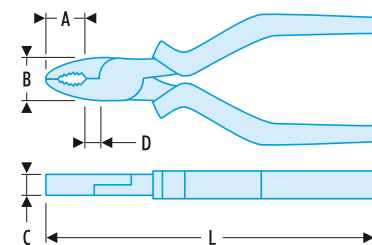
► Half-round nose pliers

187.TE Combination pliers

► ISO 5746, DIN ISO 5746, NF ISO 5746.

- Cutting edges designed to cut all types of wire : Piano wire, soft wire and modern materials.
- Long lever arm, offset pivot for minimum cutting effort.
- High durability Chrome-Molybdenum-Vanadium steel, very hard cutting edges 61/63 HRC.

	Ø max mm Fe wire 200 kg/mm ²	A mm	B mm	C mm	D mm	L mm	ΔΔ g
187.18TE	1,8	36	23	10,0	13	185	225
187.20TE	2,0	42	26	11,5	15	205	300



► Flat nose pliers

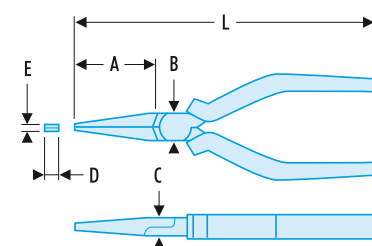
Flat-nose pliers

188.16TE

► ISO 5745, DIN ISO 5745, NF ISO 5745.

- Serrated jaws for a firm grip.

	A mm	B mm	D x E mm	C mm	L mm	ΔΔ g
188.16TE	46	18	6,5 x 4,0	9	168	140



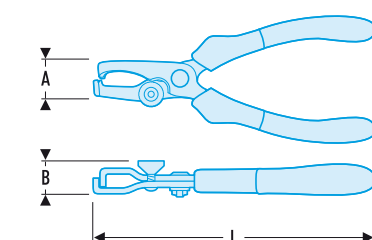
► Standard wire strippers

194.TE Wire stripper

194.17: Standard forged pliers.

- For single and multi-core wires 0.5 to 6 mm².
- Knurled adjustment screw with locknut.
- Metal return spring

	⊙ ⊗ mm ²	A mm	B mm	L mm	ΔΔ g
194.17TE	0,5 - 6	17	8.5	170	185



► Diagonal cutters

Série "G"

Varnished, polished pliers



PVC GRIPS

- Identical characteristics and specifications to series CPE and TE.

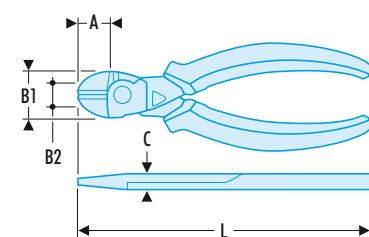
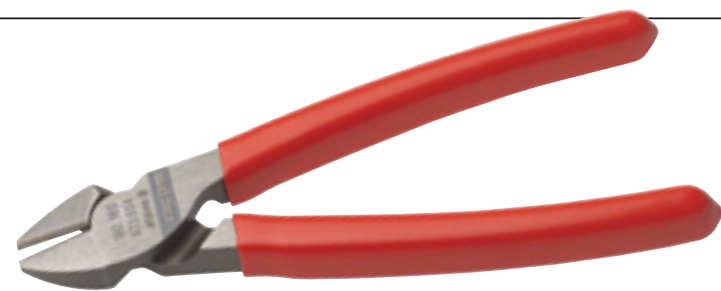


192.G High-performance diagonal cutters

► ISO 5749, DIN ISO 5749, NF ISO 5749.

- Cutting edges designed to cleanly cut all types of wire : Piano wire, soft wire and modern materials.
- Long lever arm, offset pivot for minimum cutting effort.
- High durability Chrome-Molybdenum-Vanadium steel, very hard cutting edges 61/63 HRc.

	Ø max mm 200 kg/mm ²	⌀ mm Cu	A mm	B mm	C mm	L mm	ΔΔ g
192.14G	1,5	0,7 - 3,0	15,5	21,5	9,5	145	130
192.16G	2,0	0,7 - 4,0	18	24	10	160	170
192.18G	2,2	0,7 - 4,5	20	26	11	180	230
192.20G	2,5	0,7 - 5,0	22	28	11,5	200	290



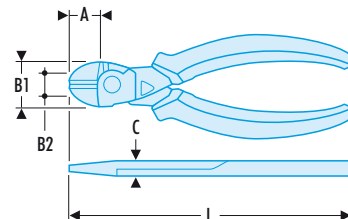
Electricians diagonal cutters

391.16G

► ISO 5749, DIN ISO 5749, NF ISO 5749.

- Snipe nose for confined spaces (electrical cabinets, wiring).
- Semi-flush cutting edges, designed to cleanly cut through all types of wire : Hard wires (max. 160 kg/mm²), thin copper wires, modern materials.
- Long lever arm, offset pivot for minimum cutting effort.
- High durability Chrome-Molybdenum-Vanadium steel, very hard cutting edges 61/63 HRc.

	160 kg/mm ²	⌀ mm Cu	A mm	B mm	C mm	L mm	ΔΔ g
391.16G	1,6	0,7 - 3,5	21	19	9	165	160



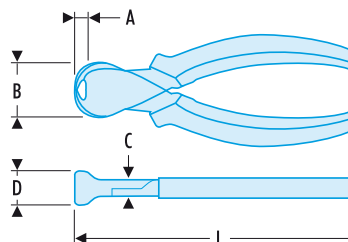
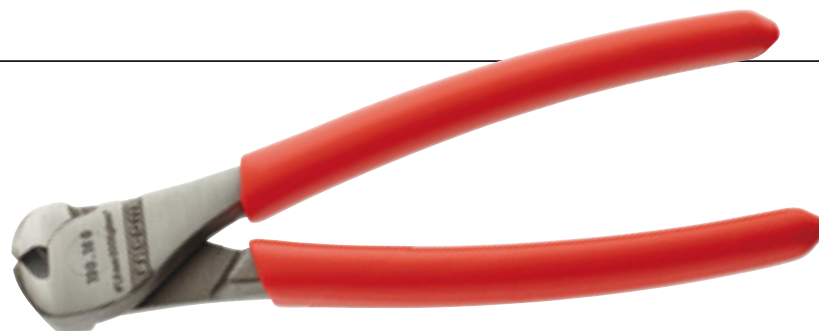
► End cutters

190.G High-performance end cutters

► ISO 5748, DIN ISO 5748, NF ISO 5748.

- Cutting edge designed to cleanly cut piano wire, hard and soft wire.
- Long lever arm, offset pivot for minimum cutting effort.
- High durability Chrome-Molybdenum-Vanadium steel, very hard cutting edges 61/63 HRc.

	Ø max mm 200 kg/mm ²	A mm	B mm	C mm	D mm	L mm	ΔΔ g
190.16G	1,6	6,5	28	11,5	23	160	170
190.20G	2,0	7,5	31	13,5	29	200	310





► Half-round nose pliers

185 - 195.G Long half-round nose pliers

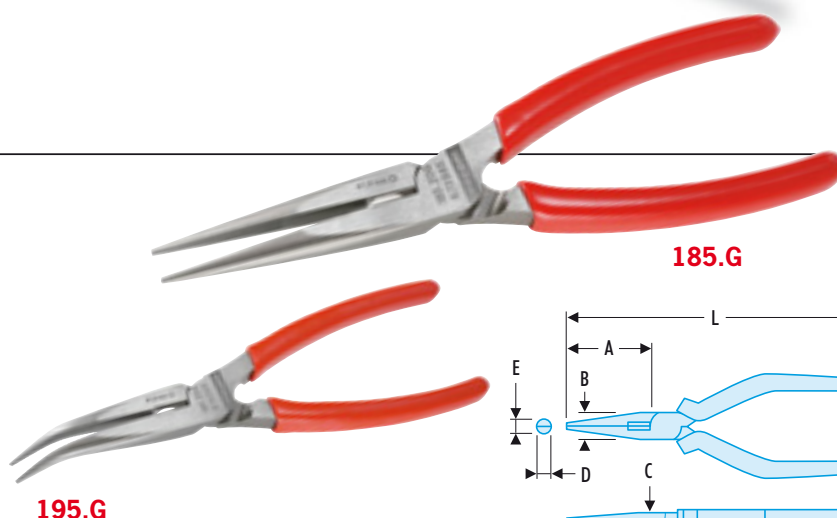
► ISO 5745, DIN ISO 5745, NF ISO 5745.

- Narrow, finely serrated tips with a pipe-grip.
- Side cutter for copper and hard steel wire (max 160 kg/mm²).

185 : Straight nose.

195 : 40° angled nose.

	Ø max mm Cu	Ø maxi mm 160 kg/mm ²	D x E mm	A mm	B mm	C mm	L mm	ΔΔ g
185.20G	0,7 - 3,5	1,6	2,9 x 3,6	75	18	9	200	192
195.20G	0,7 - 3,5	1,6	2,9 x 3,6	69	18	9	200	192



193 Short half-round nose pliers

193.16EG

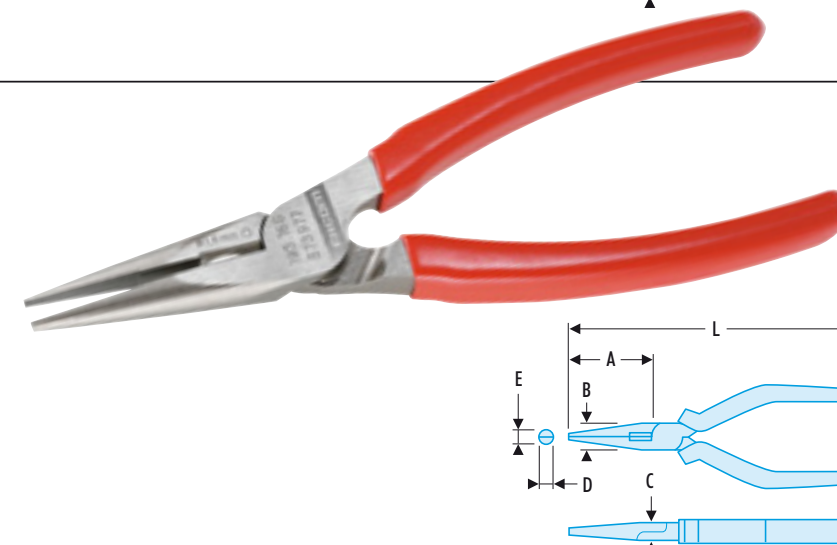
► ISO 5745, DIN ISO 5745, NF ISO 5745.

- Narrow, finely serrated tips.
- Side cutter for copper and hard steel wire (max 160 kg/mm²).

193 : Straight nose.

• (max 160 Kg/mm²).

	Ø mm Cu	Ø maxi mm 160 kg/mm ²	D x E mm	A mm	B mm	C mm	L mm	ΔΔ g
193.16G	0,7 - 3,0	1,6	2,5 x 3,0	50	17	9	160	177



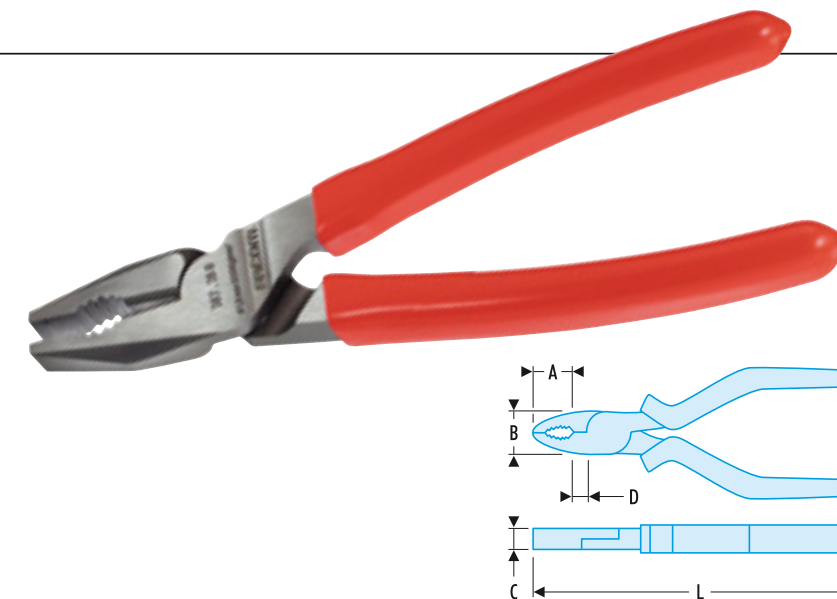
► Combination pliers

187.G Combination pliers

► ISO 5746, DIN ISO 5746, NF ISO 5746.

- Cutting edges designed to cut all types of wire : Piano wire, soft wire and modern materials.
- Long lever arm, offset pivot for minimum cutting effort.
- High durability Chrome-Molybdenum-Vanadium steel, very hard cutting edges 61/63 HRC.

	Ø max mm Fe wire 200 kg/mm ²	A mm	B mm	C mm	D mm	L mm	ΔΔ g
187.16G	1,6	34	21	9,5	12	165	195
187.18G	1,8	36	23	10,0	13	185	225
187.20G	2,0	42	26	11,5	15	205	300



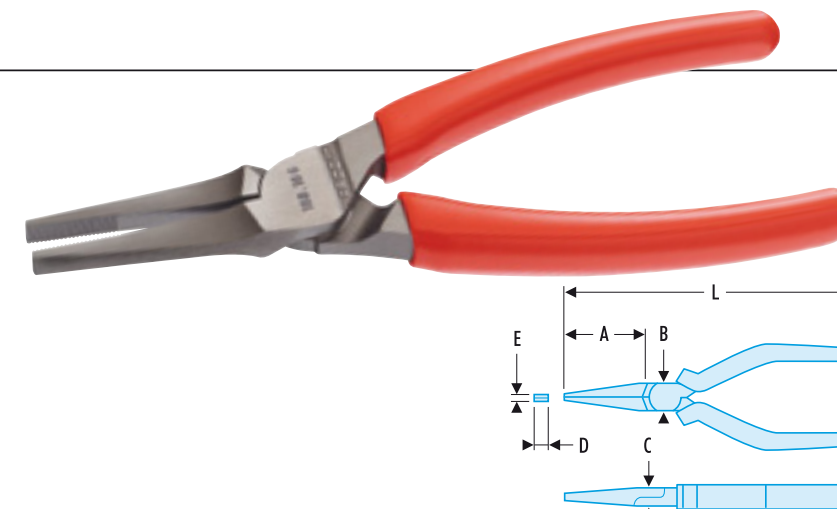
► Flat nose pliers

188.G Flat nose pliers

► ISO 5745, DIN ISO 5745, NF ISO 5745.

- Serrated jaws for a firm grip.

	A mm	B mm	C mm	D x E mm	L mm	ΔΔ g
188.16G	46	18	9	6,5 x 4,0	168	140
188.20G	75	18	9	6,5 x 4,0	200	200



▶ Diagonal cutters



"VE" series 1,000 Volt insulated pliers





Spatula-shaped pressure area, 20% more slip-resistant

Guard

- Firm, comfortable grip for pushing or pulling pressure.



Return spring for added

- The elastomer spring closes off the metal parts of the tool and prevents the finger slipping towards the uninsulated area.



Insulation tests (to European standard EN 60900)

1-10000 V immersion test

2-5000 V after penetration test

3-Adhesion test after heating to 70°C

4-Impact test after chilling to -25°C

5-Flame propagation test



Information

Certified electrical safety

- Compliance with European standard EN 60900
- For working on live components up to 1,000 volts AC.
- Each tool is individually electrically tested to 10,000 volts for 10 seconds.
- Our production site is accredited and certified to produce insulated tools.

Safety

Prevent damage to insulation from :

- Heat (-20 to +70°C working temperature)
- Chemicals.
- Cuts or perforations

Visually check the insulation before use.

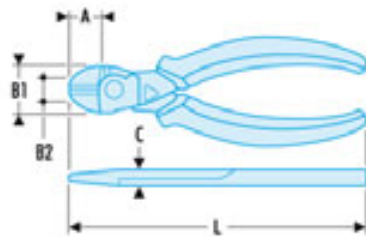
Wear glasses and gloves.

192.VE 1,000 Volt insulated high-performance diagonal cutters

- ▶ ISO 5749, DIN ISO 5749, NF ISO 5749.
- Cutting edges designed to cleanly cut all types of wire : Piano wire, soft wire and modern materials, etc.
 - Long lever arm, offset pivot for minimum cutting effort.
 - High durability Chrome-Molybdenum-Vanadium steel, very hard cutting edges 61/63 HRC.
- VDE tested. 



	Ø max mm 200 kg/mm ²	≤Ø mm Cu	A mm	B mm	C mm	L mm	ΔΔ g
192.14VE	1,5	0,7 - 3,0	15,5	21,5	9,5	145	160
192.16VE	2,0	0,7 - 4,0	18	24	10	160	200
192.18VE	2,2	0,7 - 4,5	20	26	11	180	260



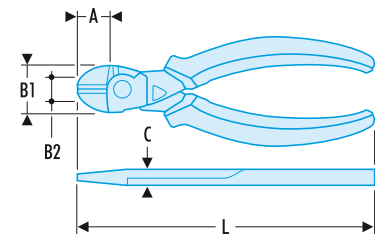
1,000 Volt VE series pliers

1,000 Volt insulated electricians diagonal cutters

391.16VE

▷ ISO 5749, DIN ISO 5749, NF ISO 5749.

- Snipe nose for confined spaces (electrical cabinets, wiring). Semi-flush cutting edges, designed to cleanly cut through all types of wire : Hard wires (max. 160 kg/mm²), thin copper wires, modern materials.
 - Long lever arm, offset pivot for minimum cutting effort.
 - High durability Chrome-Molybdenum-Vanadium steel, very hard cutting edges 61/63 HRC.
- VDE tested. 



	160 kg/mm ²	Cu	B mm	A mm	C mm	L mm	ΔΔ g
391.16VE	1,6	0,7 - 3,5	19	21	9	165	190

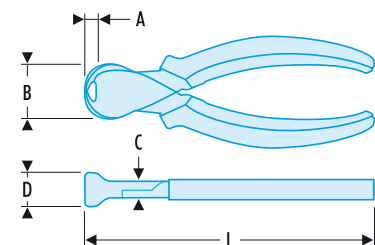
► End cutters

1,000 Volt insulated high-performance end cutters

190.16VE

▷ ISO 5748 - DIN ISO 5748, NF ISO 5748.

- Cutting edge designed to cleanly cut piano wire, hard and soft wire.
 - Long lever arm, offset pivot for minimum cutting effort.
 - High durability Chrome-Molybdenum-Vanadium steel, very hard cutting edges 61/63 HRC.
- VDE tested. 



	Ø max mm	A mm	B mm	C mm	D mm	L mm	ΔΔ g
190.16VE	200 kg/mm ²	6,5	28	11,5	23	160	200

► Half-round nose pliers

185 - 195.VE 1,000 Volt insulated long half-round nose pliers

▷ ISO 5745, DIN ISO 5745, NF ISO 5745.

- Narrow, finely serrated tips.
 - Side cutter for copper and hard steel wire (max 160 kg/mm²).
- 185 : Straight nose.
195 : 40° angled nose.
- VDE tested. 



185.VE



195.VE

	160 kg/mm ²	D x E mm	A mm	B mm	C mm	L mm	ΔΔ g
185.20VE	0,7 - 3,5	2,9 x 3,6	75	18	9	200	192
195.20VE	0,7 - 3,5	2,9 x 3,6	69	18	9	200	192



193 - 195.VE 1,000 Volt insulated short half-round nose pliers

▷ ISO 5745, DIN ISO 5745, NF ISO 5745.

- Narrow, finely serrated tips.
- Side cutter for copper and hard steel wire (max 160 kg/mm²).

193 : Straight nose.

195 : 40° angled nose.

VDE tested. 

	Cu	∅ mm 160 kg/mm ²	D x E mm	A mm	B mm	C mm	L mm	ΔΔ g
193.16VE	0,7 - 3,0	1,6	2,5 x 3,0	50	17	9	160	177
195.16VE	0,7 - 3,0	1,6	2,5 x 3,0	50	17	9	160	177



► Combination pliers

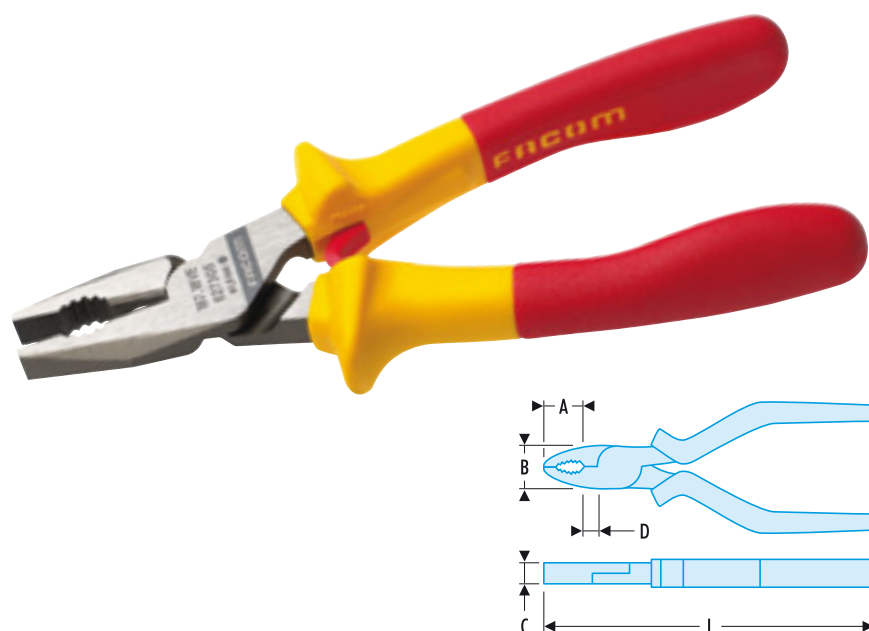
187.VE 1,000 Volt insulated combination pliers

▷ ISO 5746, NF ISO 5746.

- Cutting edges designed to cut all types of wire : Piano wire, soft wire and modern materials, etc.
- Long lever arm, offset pivot for minimum cutting effort.
- High durability Chrome-Molybdenum-Vanadium steel, very hard cutting edges 61/63 HRC.

VDE tested. 

	∅ max mm Fe wire 200 kg/mm ²	A mm	B mm	C mm	D mm	L mm	ΔΔ g
187.16VE	1,6	34	21	9,5	12	165	195
187.18VE	1,8	36	23	10,0	13	185	225



► Flat nose pliers

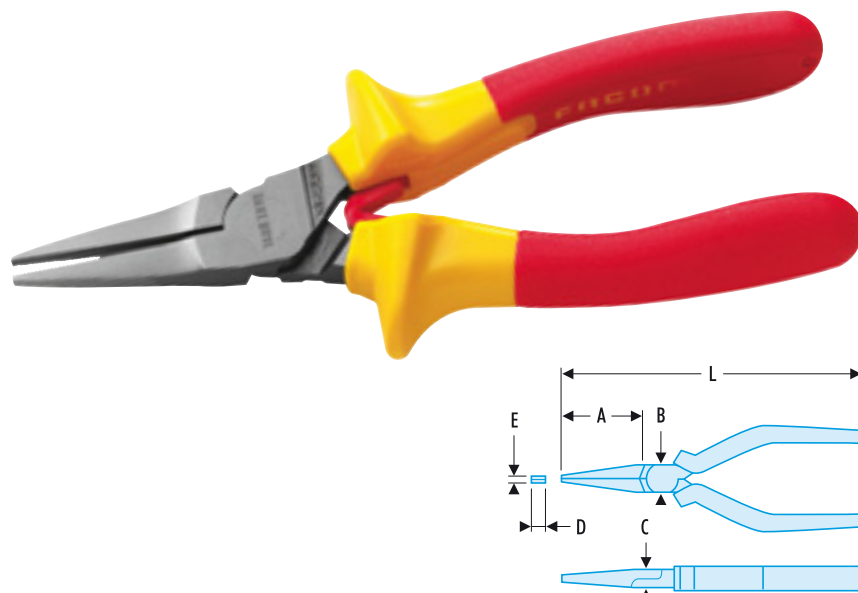
188.VE 1,000 Volt insulated flat nose pliers

▷ ISO 5745, DIN ISO 5745, NF ISO 5745.

- Serrated jaws for a firm grip.

VDE tested. 

	A mm	B mm	C mm	D x E mm	L mm	ΔΔ g
188.16VE	46	18	9	6,5 x 4,0	168	140
188.20VE	75	18	9	6,5 x 4,0	200	200



1,000 Volt VE series pliers

► Round-nose pliers

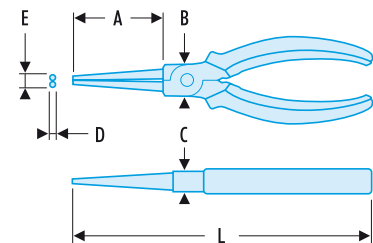
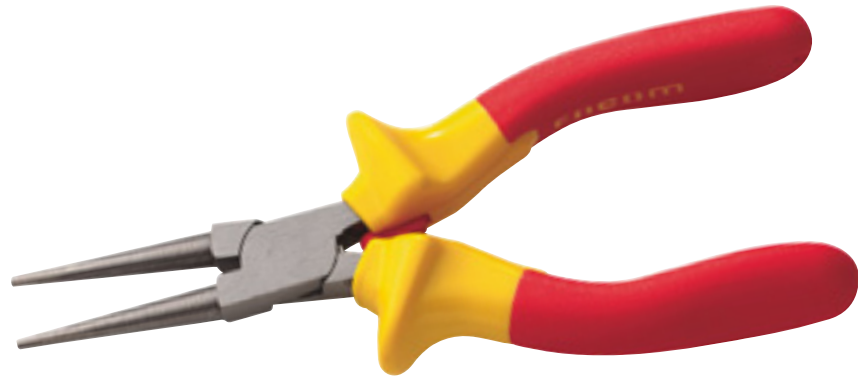
1,000 Volt insulated round-nose pliers

189.17VE

► ISO 5745, DIN ISO 5745, NF ISO 5745.

- For shaping loops, bends or rings.
- Finely serrated jaws for positive grip.
- Ø at end of each tip : 2 mm.

VDE tested. 



	A mm	B mm	C mm	D x E mm	L mm	ΔΔ g
189.17VE	41	18	9	2 x 4	170	135

► Standard wire strippers

1,000 Volt insulated wire stripper

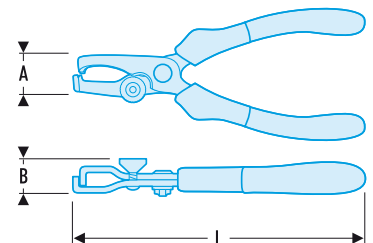
194.17VE

► EN 60900.

- For single and multi-core wires 0.5 to 6 mm².

194.17 : Standard forged pliers.

- Knurled adjustment screw with locknut.
- Metal return spring.



	⊙ ⊗ mm²	A mm	B mm	L mm	ΔΔ g
194.17VE	0,5 - 6	17	8,5	170	185

Multigrip pliers 180.VE - Riveted pivot



For the 180 VE plier range, see p. 374



VSE insulated crimping pliers, wire strippers, etc.

See the electricity section, p. 622



► High-performance piano wire circlip® pliers



High-performance circlip® pliers

INCREASED POWER AND DURABILITY

High-strength calibrated piano wire tips

- Invented by FACOM : reinforced piano wire* tips : 15% stronger than the best on the market.
- Angled tips for better retention of circlips®.

HIGH-STRENGTH TIPS

Capacity markings.
For easy tool selection.

Opening spring** for.
Smooth operation.

Smooth-action joint for.
Reduced fatigue.

Forged non-slip pattern for.
A firm non-slip grip.

* Except pliers E.9, standard tips.

** Except size 32.



Inside circlip® pliers

- Straight, 45° or 90° tip profiles.
- Chrome finish.



Safety

Eye protection is
recommended



179E Straight-tip "compression" pliers

► DIN 5256, NF E 73-130, ASME B 107.19.

- For inside circlips®.
- 179E.15 /19/24 : with reinforced tips.

		mm	mm	Length mm	ΔΔ g
			Ø min - max		
179E.9		0,9	8 - 11	140	105
179E.13		1,3	12 - 25	140	105
179E.15		1,8	18 - 30	140	105
179E.18		1,8	18 - 60	185	175
179E.19		2,3	31 - 60	180	175
179E.23		2,3	31 - 100	215	260
179E.24		2,8	65 - 100	215	260
179E.32		3,2	85 - 200	310	395



169E 45°-tip "compression" pliers

▷ NF E 73-130, ASME B.107.19.

- For inside circlips®.

		mm	mm	Length	ΔΔ
			Ø min - max	mm	g
169E.9		0,9	8 - 11	140	110
169E.13		1,3	12 - 25	140	110
169E.18		1,8	18 - 60	180	150
169E.23		2,3	31 - 100	215	210



199E 90°-tip "compression" pliers

▷ DIN 5256, NF E 73-130, ASME B 107.19.

- For inside circlips®.
- 199E.15 : with reinforced tips.

		mm	mm	Length	ΔΔ
			Ø min - max	mm	g
199E.9		0,9	8 - 11	130	105
199E.13		1,3	12 - 25	130	105
199E.15		1,8	18 - 30	130	105
199E.18		1,8	18 - 60	170	175
199E.23		2,3	31 - 100	205	260
199E.32		3,2	85 - 200	290	395



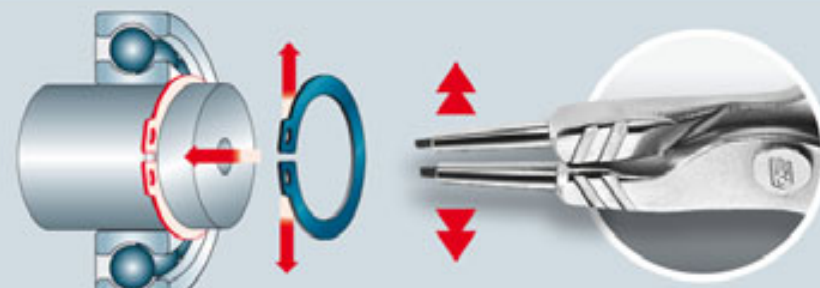
Outside circlip® pliers

- Straight, 45° or 90° tip profiles.
- Chrome finish.



Safety

Eye protection is recommended



177E Straight-tip "expansion" pliers

▷ DIN 5254, NF E 73-130, ASME B 107.19.

- For outside circlips®.
- 177E.15/19/24 : with reinforced tips.

		mm	mm	Length	ΔΔ
			Ø min - max	mm	g
177E.9		0,9	3 - 10	150	105
177E.13		1,3	10 - 25	150	105
177E.15		1,8	18 - 30	150	105
177E.18		1,8	18 - 60	180	175
177E.19		2,3	32 - 63	190	120
177E.23		2,3	32 - 100	215	260
177E.24		2,8	65 - 100	215	200
177E.32		3,2	85 - 200	310	395



167E 45°-tip "expansion" pliers

▷ NF E 73-130, ASME B 107.19.

- For outside circlips®.

		mm	mm	Length	ΔΔ
			Ø min - max	mm	g
167E.9		0,9	3 - 10	145	105
167E.13		1,3	10 - 25	145	105
167E.18		1,8	18 - 60	175	175
167E.23		2,3	32 - 100	215	260



197E 90°-tip "expansion" pliers

▷ DIN 5254, NF E 73-130, ASME B 107.19.

- For outside circlips®.

	 mm	 mm Ø min - max	Length mm	ΔΔ g
197E.9	0,9	3 - 10	140	105
197E.13	1,3	10 - 25	140	105
197E.18	1,8	18 - 60	170	175
197E.23	2,3	32 - 100	200	260
197E.32	3,2	85 - 200	290	395



4-piece circlip® plier module

MOD.PC1PB

- Comprising :
 - Inside circlip® pliers 177E.18 (straight tip) ,and 197E.18 (90° tip).
 - Inside circlip® pliers 179E.18 straight tip ,and 199E.18 (90° tip).
- Tray PL.332.
- ΔΔ : 930 g.

▶ **Machined-nose pliers****Machined-nose pliers**

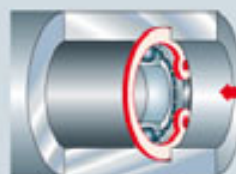
- Inverted cone tips for secure retention of circlips®.
- Special heat-treated steel inserts for optimum strength.
- Spring-assisted opening.
- Varnished finish, PVC sheathing.

**Inside circlip® pliers**

- Straight, 45° or 90° tip profiles.
- Varnished finish, PVC sheathing.

**Safety**

Eye protection is recommended



179G Straight-tip "compression" pliers

▷ DIN 5256, NF E 73-130, ASME B 107.19.

- For inside circlips.®.

	 mm	 mm Ø min - max	Length mm	ΔΔ g
179G.9	0,9	8 - 11	140	120
179G.13	1,3	12 - 25	145	120
179G.18	1,8	18 - 60	185	190
179G.23	2,3	31 - 100	215	275



169G 45°-tip "compression" pliers

▷ NF E 73-130, ASME B.107.19.

• For inside circlips®

		mm	Length	ΔΔ
	mm	Ø min - max	mm	g
169G.9	0,9	8 - 11	140	120
169G.13	1,3	12 - 25	140	120
169G.18	1,8	18 - 60	180	190
169G.23	2,3	31 - 100	215	275



199G 90°-tip "compression" pliers

▷ DIN 5256, NF E 73-130, ASME B 107.19.

• For inside circlips®.

		mm	Length	ΔΔ
	mm	Ø min - max	mm	g
199G.9	0,9	8 - 11	130	120
199G.13	1,3	12 - 25	130	120
199G.18	1,8	18 - 60	170	190
199G.23	2,3	31 - 100	205	275



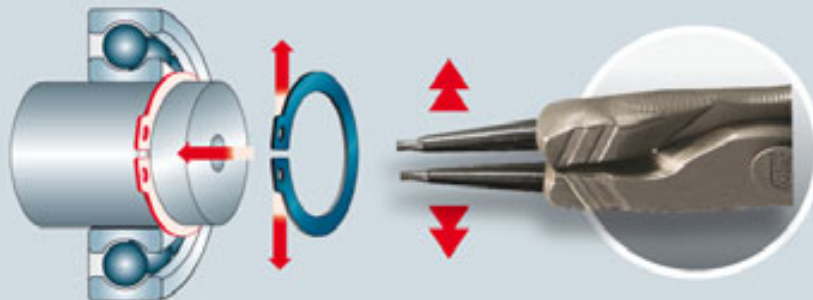
Outside circlip® pliers

- Straight, 45° or 90° tip profiles.
- Varnished finish, PVC sheathing.



Safety

Eye protection is recommended



177G Straight-tip "expansion" pliers

▷ DIN 5254, NF E 73-130, ASME B 107.19.

• For inside circlips®.

		mm	Length	ΔΔ
	mm	Ø min - max	mm	g
177G.9	0,9	8 - 11	150	120
177G.13	1,3	10 - 25	150	120
177G.18	1,8	18 - 60	180	190
177G.23	2,3	32 - 100	215	275



167G 45°-tip "expansion" pliers

▷ NF E 73-130, ASME B 107.19.

• For inside circlips®.

		mm	Length	ΔΔ
	mm	Ø min - max	mm	g
167G.9	0,9	3 - 10	145	120
167G.13	1,3	10 - 25	145	120
167G.18	1,8	18 - 60	175	190
167G.23	2,3	32 - 100	210	275



197G 90°-tip "expansion" pliers

▷ DIN 5254, NF E 73-130, ASME B 107.19.

• For inside circlips®.

		mm	Length	ΔΔ
	mm	Ø min - max	mm	g
197G.9	0,9	3 - 10	140	120
197G.13	1,3	10 - 25	140	120
197G.18	1,8	18 - 60	170	190
197G.23	2,3	32 - 100	200	275



4-piece circlip® plier module®

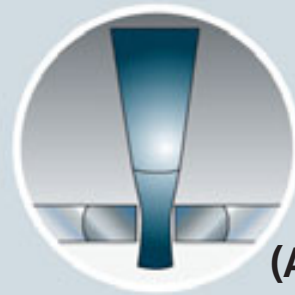
MOD.PC2PB

- Comprising :
 - Inside circlip® pliers 177G.18 (straight tip) ,and 197G.18 (90° tip).
 - Inside circlip® pliers 179G.18 straight tip ,and 199G.18 (90° tip).
 - Tray PL.332.
- ΔΔ : 930 g.



Choosing the right circlip® pliers

- Always select the nearest tip diameter to the size of circlip® holes (A)
- Never attempt to reshape the tips of the pliers.
- Safety first : Always wear eye protection when handling circlips®.



► Large-capacity pliers

479-499 Rack-type "compression" pliers for inside circlips®

- Interchangeable tips.
 - Rack holds circlips® compressed for easy fitting and removal.
 - Chrome finish, red PVC grips.
- 479.32 : straight tips.
499.32 : 45° tips.

	Tips	mm	mm Ø min - max	Length max	ΔΔ g
479.32		3,2	85 - 200	310	480
499.32		3,2	85 - 200	310	480



477-497 Rack-type "expansion" pliers for outside circlips® pliers

- Similar overall design to 479-499.
- 477.32 : straight tips.
497.32 : 45° tips.

	Tips	mm	mm Ø min - max	Length mm	ΔΔ g
477.32		3,2	85 - 200	310	480
497.32		3,2	85 - 200	310	480



490.SE Spare tips for pliers 477 to 499

- Each reference includes 2 tips and 2 screws.

	Tips	mm	mm Ø min - max
490.SE28-1		2,8	65 - 120
490.SE32-1		3,2	85 - 200
490.SE38-1		3,8	120 - 200
490.SE28-2		2,8	65 - 120
490.SE32-2		3,2	85 - 200
490.SE38-2		3,8	120 - 200



► Reversible pliers



Reversible circlip® pliers

REVERSIBLE CIRCLIP® PLIERS 475A

- Single tool for both inside and outside circlips®
- Quick thumbscrew position setting.



Circlip 1 for outside
Circlips®.



Position 2 for inside
Circlips®

475A Reversible inside and outside circlip® pliers

- Single tool for both inside and outside circlips®
- Burnished finish, PVC grips.

		mm	mm	mm	mm	g
		Ø min - max	Ø min - max	Length		
475A.15	1,0	10 - 30	10 - 18	150		75
475A.20	1,8	20 - 48	19 - 45	200		155



Set of two reversible pliers

475A.J1

- Comprising :
 - 475A.15 circlip® Ø 10 to 30 mm inside circlips® and Ø 10 to 18 mm.
 - 475A.20 circlip® Ø 20 to 48 mm inside circlips® and Ø 19 to 45 mm.
- Supplied in a case 245 x 135 x 35 mm.
- ΔΔ : 430 g.



► Removable tip pliers

Inside and outside circlip® pliers

470

- Interchangeable tips for :
 - Ø 8 to 63 mm for outside circlips®.
 - Ø 3 to 63 mm for outside circlips®.
- Comprising :
 - 469.PA Inside-circlip® pliers.
 - 467.PA Outside circlip® pliers.
 - 82.2.5 key.
 - Set of 18 removable tips.
 - Supplied in a plastic case.
- ΔΔ : 1.5 kg.



	Description
467.01AJ2	Set of spare screws



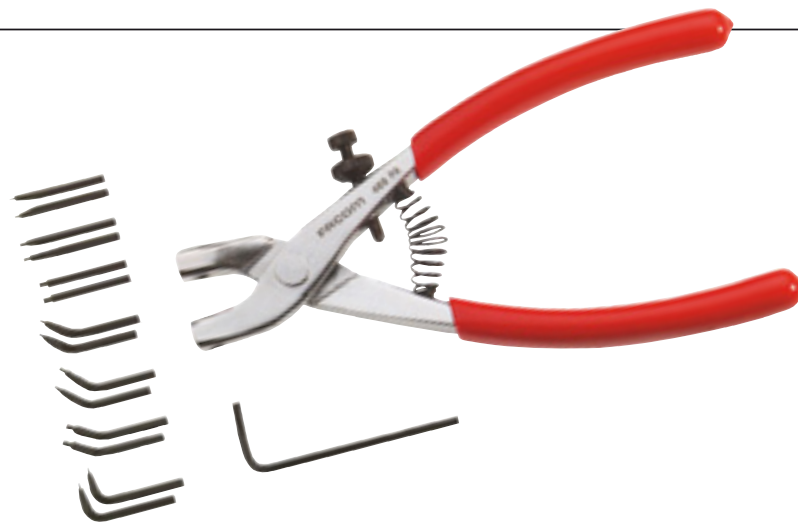
Inside circlip® pliers

469

- Interchangeable tips for Ø 8 to 63 mm.
- Screw-stop adjustment.
- Spring-assisted opening.
- Chrome finish, red PVC grips.
- Supplied in a wallet with a key and set of tips E1 - E2 - E3 - E5 - E6 - E8 - E9.

ΔΔ : 160 g.

	Description
 467.01AJ2	Set of spare screws



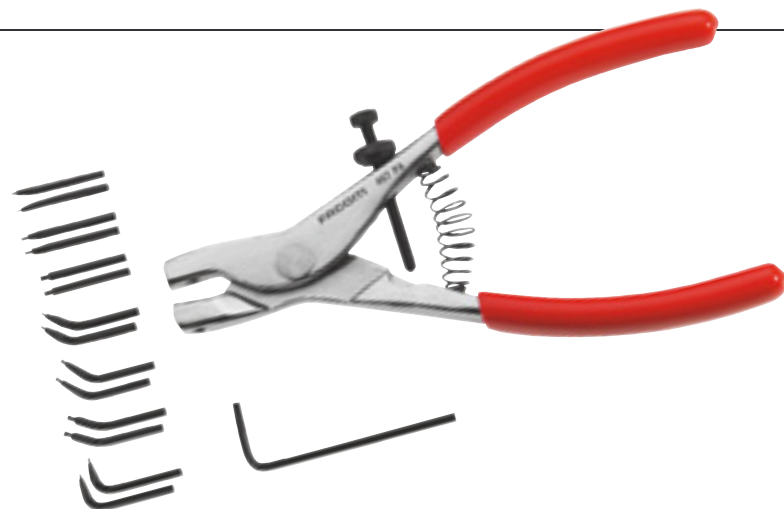
Outside circlip® pliers.

467

- Interchangeable tips for Ø 3 to 63 mm.
- Screw-stop adjustment.
- Spring-assisted opening.
- Chrome finish, red PVC grips.
- Supplied in a wallet with a key and set of tips E1 - E2 - E3 - E5 - E6 - E8 - E9.

ΔΔ : 160 g.

	Description
 467.01AJ2	Set of spare screws



470E Spare tips for circlip® pliers 467 and 469

- Available as straight, 45° and 90°-tip.
- Each reference includes a set of 2 tips.

	Tips	mm	mm Ø min - max	mm Ø min - max
470.E1		0,9	8 - 12	3 - 10
470.E2		0,9	8 - 12	3 - 10
470.E3		0,9	8 - 12	3 - 10
470.E5		1,3	12 - 25	10 - 25
470.E6		1,3	12 - 25	10 - 25
470.E7		1,3	12 - 25	10 - 25
470.E8		1,8	19 - 63	19 - 63
470.E9		1,8	19 - 63	19 - 63
470.E10		1,8	19 - 63	19 - 63



► Snap-ring pliers

411A Outside snap-ring pliers

- Special tips for snap-rings and spring clips.
- Chrome finish, PVC grips.

	mm Ø min - max	mm Length	g ΔΔ
 411A.17	15 - 62	150	190
411A.20	60 - 160	190	275

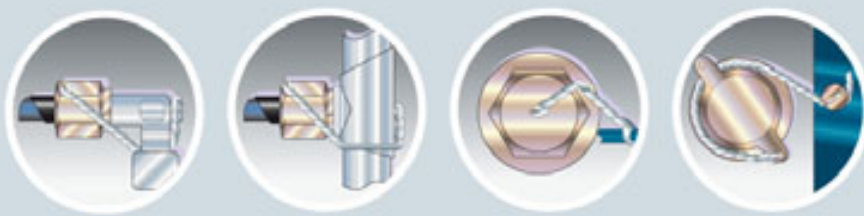




Facom locking-wire pliers

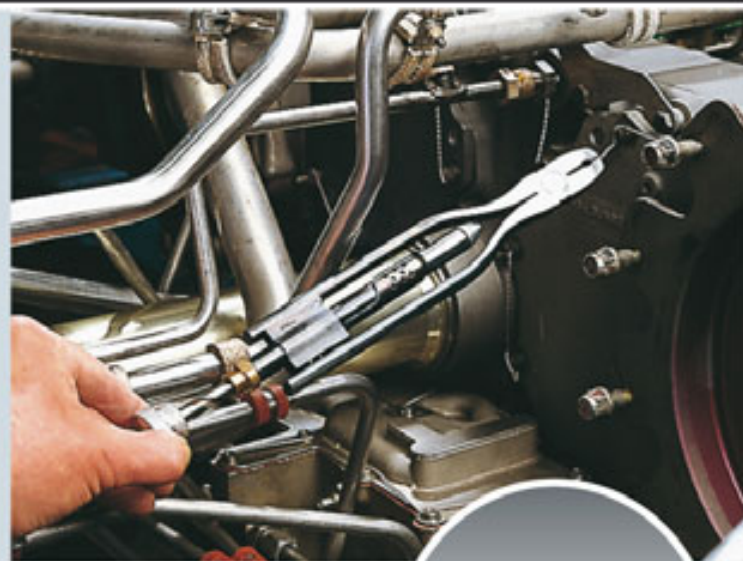
Fast twist in lock-wire securing assemblies subject to vibration.

- For stainless and Inconel wire Ø 1 mm.
- Side wire-cutter.
- Slim nose-tip for optimum manoeuvrability.
- 10" model: 3 turns, 125 mm travel.
- 8" model: 2.5 turns, 95 mm travel.



An extensive range

- Compact model for locking fasteners standard pliers cannot reach.
- Automatic-reset model for simplicity and time-saving.
- Reversible model for working in either direction.
- An extensive range



1. Both wire ends gripped in nose.



2. Pull to twist lock-wire
Push back for more travel if required.



3. Finish job with side cutter.

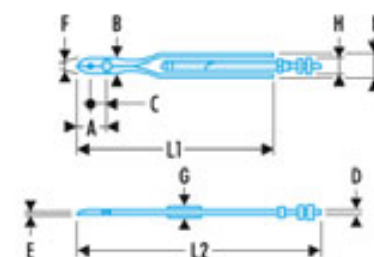


► Locking-wire pliers

Short locking-wire pliers (8")

- 445.8 : standard model. ΔΔ 245 g.
445.8R : "automatic" model. ΔΔ 245 g.
445.8DS : reversible model. ΔΔ 260 g.
• For stainless wire Ø 1 mm.

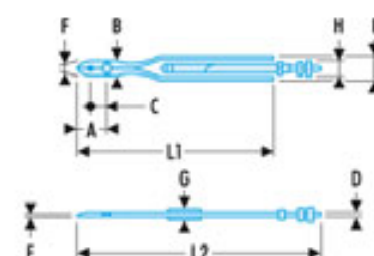
	F mm	G mm	A mm	B mm	C mm	D mm	E mm	H mm	Ø Stain- less max mm	I mm	L1 mm	L2 mm	ΔΔ g
445.8	3	15	20	15	7	10,5	2,5	22	1	37	170	215	245
445.8R	3	15	20	15	7	10,5	2,5	22	1	37	170	215	245
445.8DS	3	23	21,5	15	7	10,5	2,5	31,5	1	37	170	215	260



Locking-wire pliers (10")

- 445.10 : standard model.
445.10R : "automatic" model
445.10DS : reversible model.

	F mm	G mm	E mm	A mm	B mm	C mm	D mm	H mm	I mm	Ø Stain- less max mm	L1 mm	L2 mm	ΔΔ g
445.10	3	15,5	2,5	30	19	11	11,5	25	40	1	230	360	395
445.10R	3	15,5	2,5	30	19	11	11,5	25	40	1	230	360	400
445.10DS	3	15,5	2,5	30	20	11	11,5	31,5	44	1	230	360	445



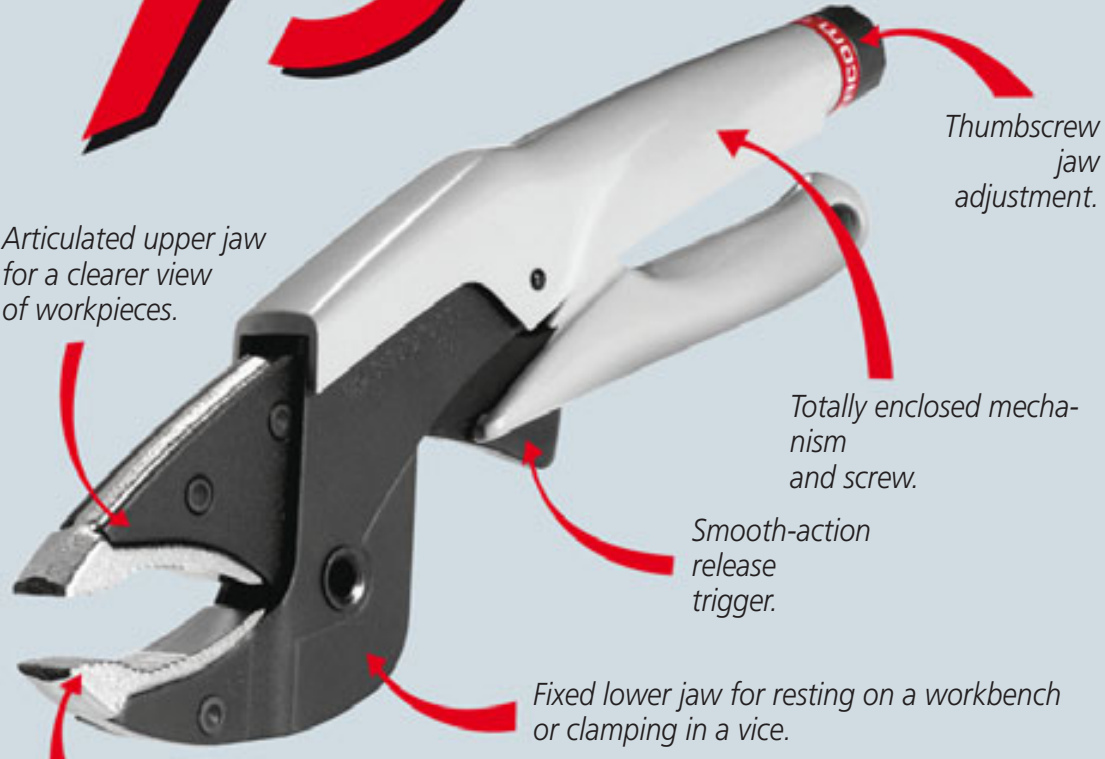
► "T5" lock-grip pliers


Ergonomic and safe lock-grip pliers





**SAFE, PRACTICAL AND
ERGONOMIC**





65 mm



100 mm

**Smooth, controlled
release.**



ONE-HAND OPERATION



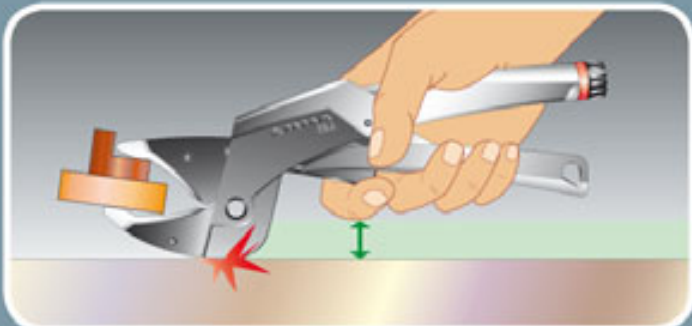
T5 : Increased safety.

No shocks to the hand

- The trigger system eliminates shocks to the hand on release.

Hand protection

- Good finger clearance between lever and work surface.



T5 : More practical and ergonomic.

One-hand operation

- The pliers clamp and release with one hand even when very tight.
- Leaves the other hand free to hold components.

Controlled release

- The trigger system ensures progressive and controlled release.
- T5 pliers maintain pressure and components remain assembled between the jaws during unclamping.

Ergonomic

- Ergonomic sheathed handles and demultiplication reduces fatigue.

Lock-grip pliers

T5.L Aluminium-sheathed trigger-release lock-grip pliers

- Ergonomic aluminium sheathing, protects against weld spatter.
- Controlled, progressive release.
- Practical and comfortable : one-handed operation, small grip opening at all jaw openings.
- Forged in Chrome Molybdenum steel with treated jaws for a longer working life.

	Dimensions mm	Opening maxi mm	ΔΔ g
T5.L	250 x 75 x 22	Ø 40 mm	631
T5.L65	290 x 80 x 22	Ø 65 mm	819
T5.L100	320 x 100 x 22	Ø 100 mm	943



T5.L



T5.L65



T5.L100



Plastic-sheathed trigger-release lock-grip pliers

T5.1L

- Ideal for on-site maintenance.
 - Controlled, progressive release.
 - Practical and comfortable : One-handed operation, small grip opening.
 - Forged in Chrome Molybdenum steel with treated jaws for a longer working life.
 - Dimensions 250 x 75 x 22 mm.
- ΔΔ : 565 g.





"Original 500" lock-grip pliers

LARGE CAPACITY LOCKS ON TO ANY SHAPE



Round up to 135 mm

Hexagonal up to 125 mm

Angle section up to 70 mm



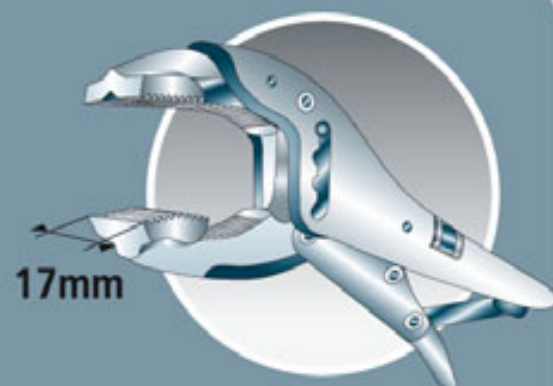
"ORIGINAL 500" lock-grip pliers feature the efficient slip-joint developed by Facom.

- Wide opening.
- Constantly parallel jaws.
- Reach beyond edges up to 70 mm high.



Jaws engineered for secure grip.

- 17 mm wide.
- Machined groove in upper jaw holds small round sections.
- Serrations along full jaw length.
- Chrome-molybdenum steel. For better wear resistance.

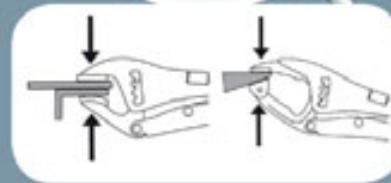


17mm



Hinged tip versions.

- To adapt to any grip configuration. Moving-tip option on model 506/516.

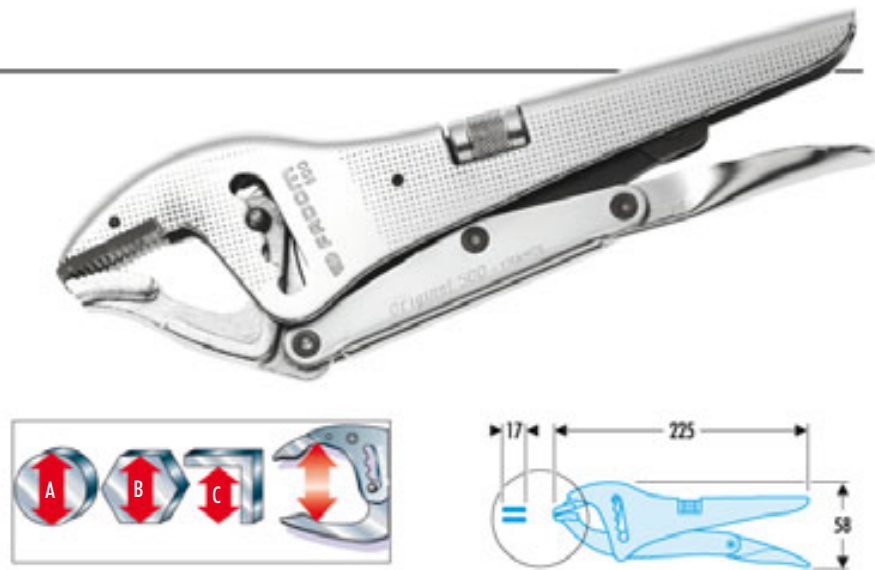


► Large-capacity lock-grip pliers

Short-nose pliers

500

- 4-position slip joint system.
 - Chrome finish.
- ΔΔ : 540 g.

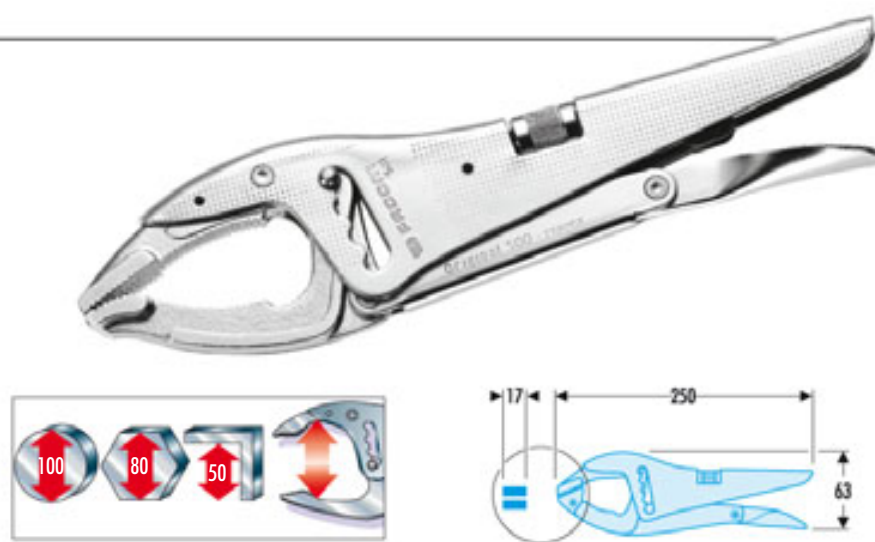


501 - 506 Long-nose pliers

- 501 :
 - 4-position slip joint system.
 - Chrome finish.

ΔΔ : 620 g.
- 506 - Type 501 with hinged tip.
 - The hinged jaw tip adapts to any grip configuration.
 - 4-position slip joint system.

ΔΔ : 640 g.

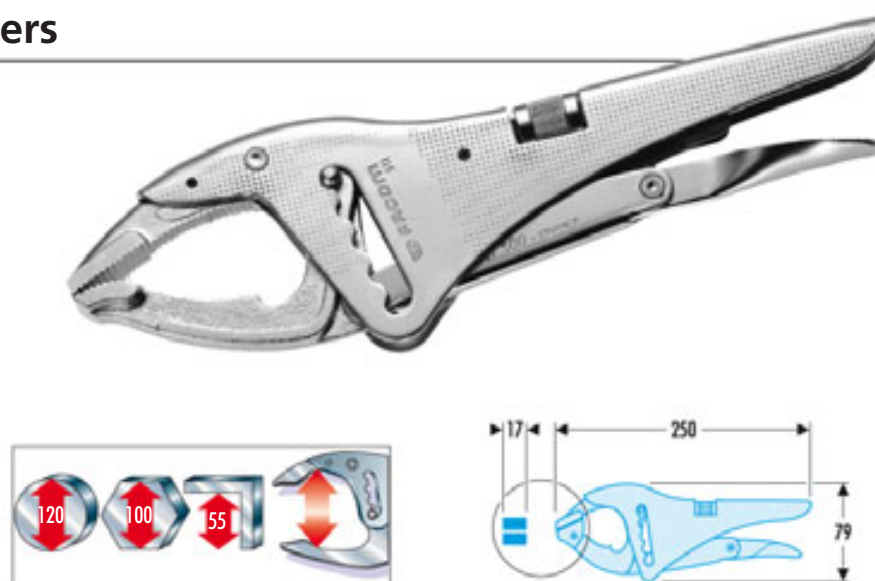


511 - 516 5-position slip joint long-nose pliers

- 511 :
 - 5-position slip joint for increased capacity.
 - Chrome finish.

ΔΔ : 680 g.
- 516 - Type 511 with hinged tip.
 - The hinged jaw tip adapts to any grip configuration.
 - 5-position slip joint system.

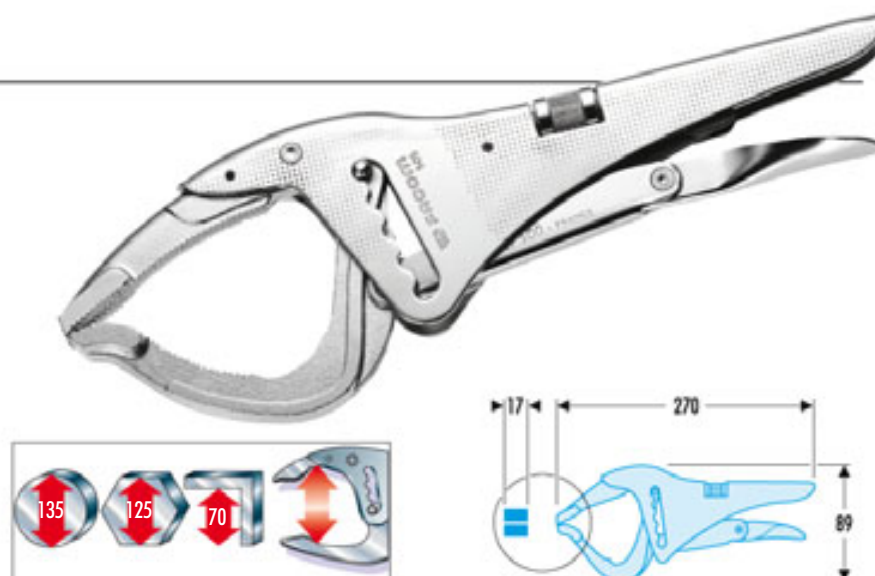
ΔΔ : 695 g.

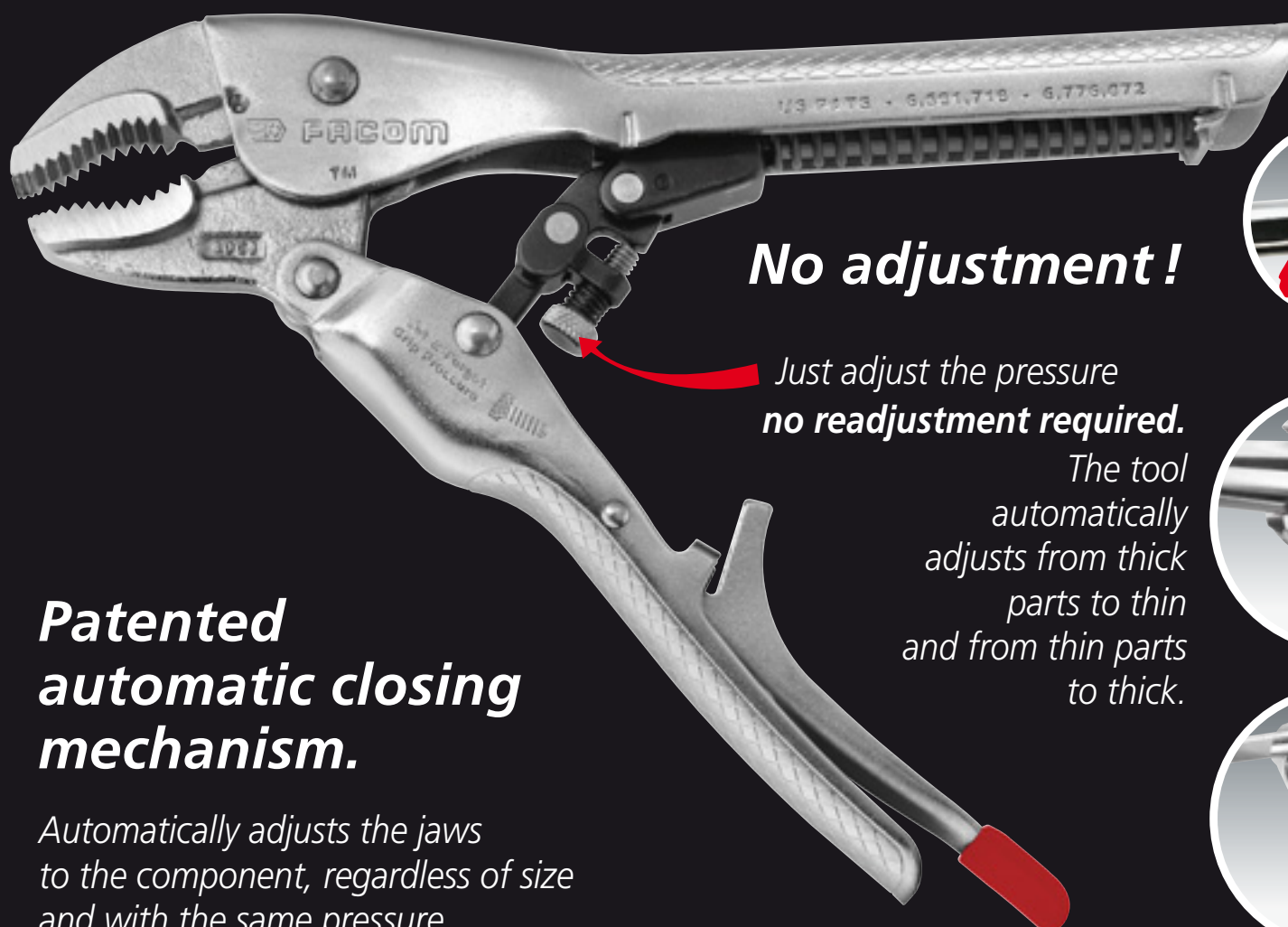


5-position slip joint large-capacity pliers

505

- 5-position slip joint, deep jaw.
 - Chrome finish.
- ΔΔ : 720 g.



New**SERIES 580 : Automatic lock-grip pliers***Ideal for saving time and for production work.***No adjustment!***Just adjust the pressure
no readjustment required.**The tool
automatically
adjusts from thick
parts to thin
and from thin parts
to thick.***Patented
automatic closing
mechanism.***Automatically adjusts the jaws
to the component, regardless of size
and with the same pressure***► Automatic lock-grip pliers****580 Multi-purpose angle-nose lock-grip pliers**

- Suitable for industrial and automotive production and maintenance applications.
- Forged in Chrome Molybdenum steel with treated jaws for longer working life.
- Non-slip chequered handle.
- One-hand unlocking by internal opening lever.
- Chrome finish, burnished mechanism (patented).



	L x H mm	A mm	B mm	C mm	ΔΔ g
580.6	150 x 45	30	21	8	235
580.10	250 x 63	38	30	12	642

Long-nose lock-grip pliers**582.7**

- For holding, placing or removing components where access is difficult.
- Tips designed for holding flat or circular sections.
- Forged in Chrome Molybdenum steel with treated jaws for longer working life.
- Non-slip chequered handle.
- One-hand unlocking by internal opening lever.
- Chrome finish, burnished mechanism (patented).



	L x H mm	A mm	B mm	C mm	ΔΔ g
582.7	175 x 45	45	61	5,5	256

► Compact lock-grip pliers



507 series compact lock-grip pliers





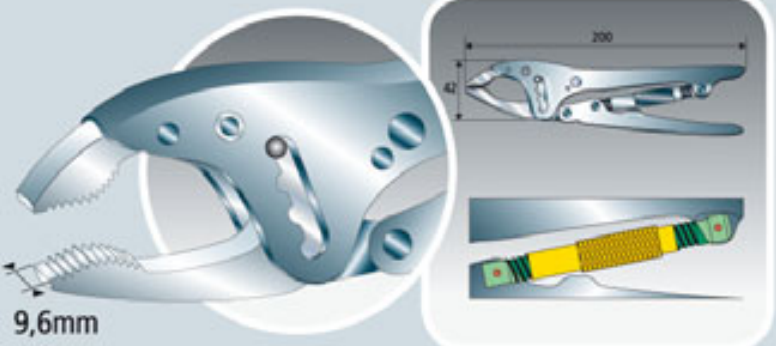
The "compact 507" range offers two major benefits

Versatility provided by the slip-joint system designed and developed by Facom that combines :

- Wide opening.
- Constantly parallel jaws
- Reach beyond edges.

Slim profile and precision

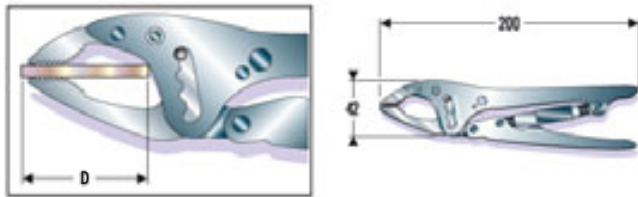
- Compact tool with narrow nose.
- Fine adjustment with the unique Facom knurl system.



Short-nose lock-grip pliers

507A

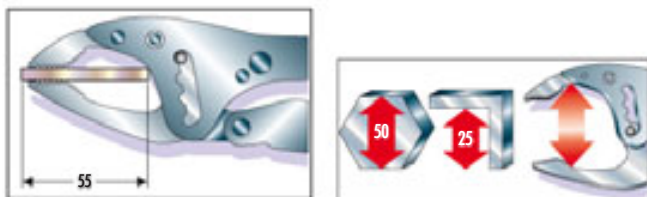
- Forged jaws.
- Chrome finish.
- Length 200 mm.
- ΔΔ : 330 g.



Long-nose lock-grip pliers

509

- Forged jaws.
- Chrome finish.
- Length : 215 mm.
- ΔΔ : 370 g.



► "Single-setting" lock-grip pliers

513 Short-nose single setting lock-grip pliers

- Slim jaws.
- Hand-screw adjustment.
- Black cataphoretic finish.

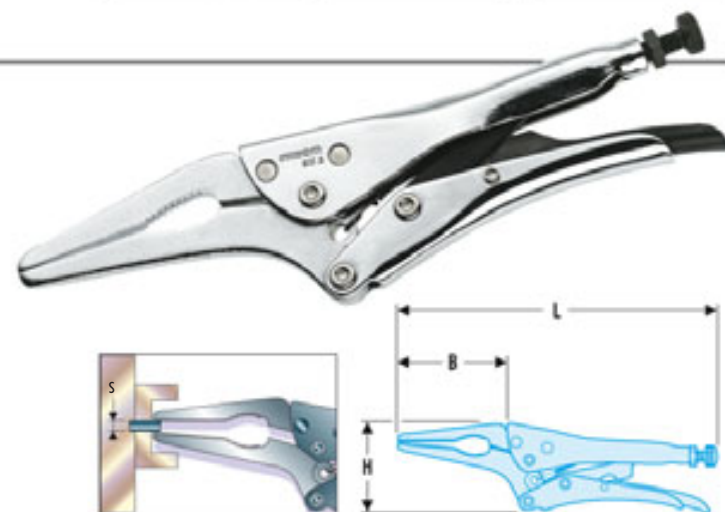
	L x H mm	A mm	B mm	C mm	ΔΔ g
513.5	140 x 49	25	18	6,4	180
513A.7	190 x 59	35	27	9,0	380
513.10	235 x 71	55	35	10,3	628



517 Long-reach single setting lock-grip pliers

- For reaching and gripping components in confined spaces.
- Chrome finish.

	S max mm	B mm	H mm	L mm	ΔΔ g
517.6	55	50	48	165	200
517.10	70	80	60	235	430



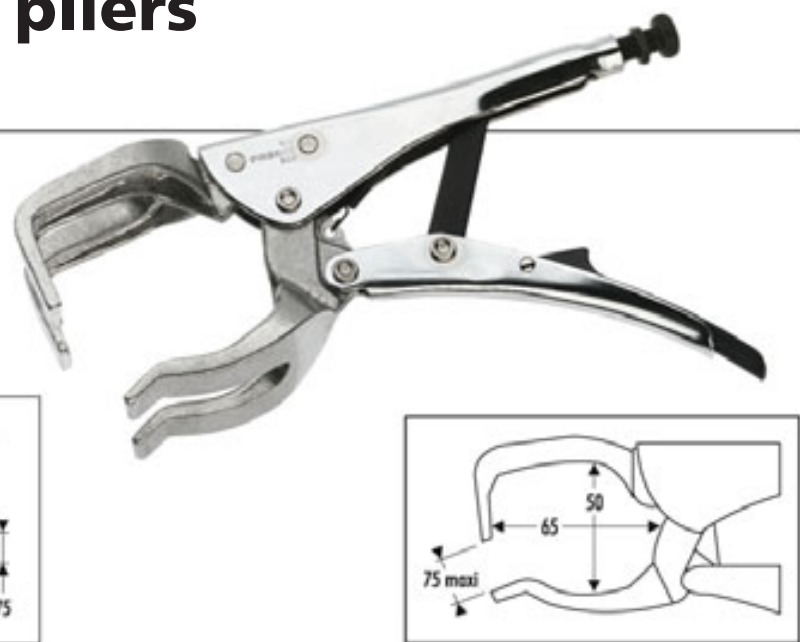
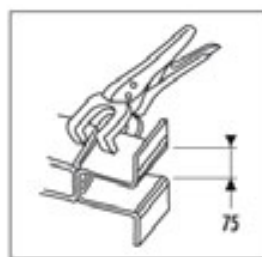
► "Metalworking" lock-grip pliers

Arc-welding lock-grip pliers

502A

- Light alloy spatter-proof jaws.
- Steel body.
- Secure and precise alignment of work pieces.
- Ample clearance for the welding tool.
- Chrome finish.
- Dimensions 280 x 82 x 70 mm.

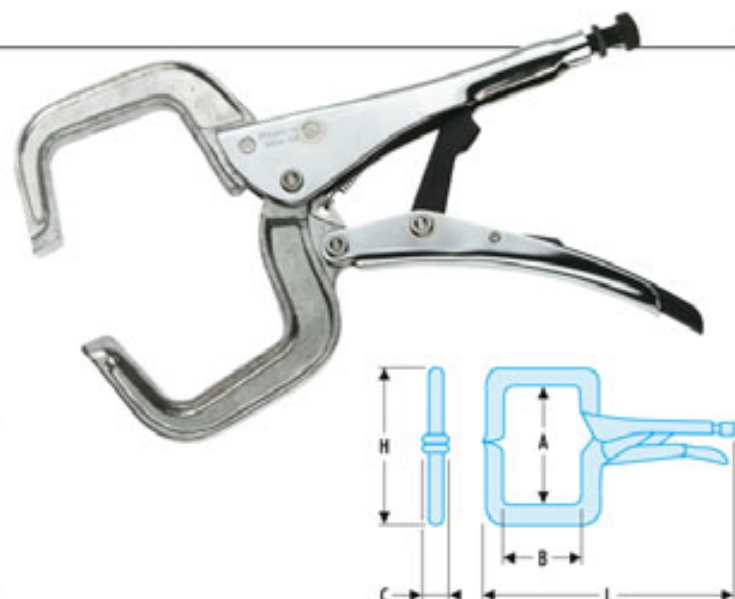
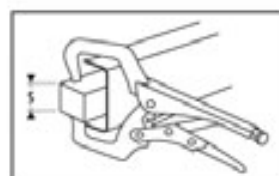
ΔΔ : 735 g.



504A "C-clamp" arc-welding lock-grip pliers

- Light alloy spatter-proof jaws.
- Steel body.
- Secure clamp for welding shaped or angled sections, and channels.
- Chrome finish.

	S max mm	A mm	B mm	C mm	H mm	L mm	ΔΔ g
504A.100	80	100	65	12	147	280	655
504A.180	125	180	120	20	240	350	927



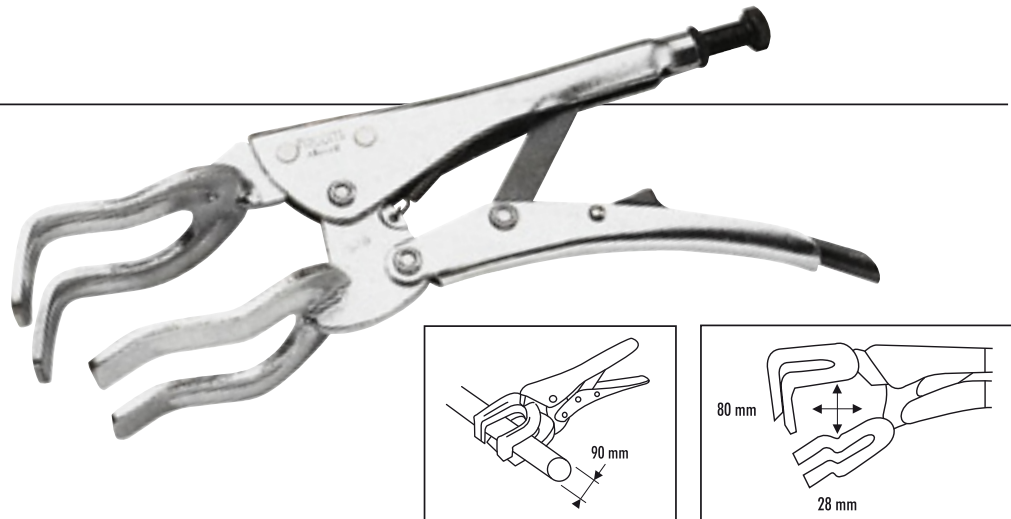
Lock-grip pliers

Lock-grip pliers for round sections

503

- Secure clamping of round sections.
- Pressed-steel jaws and body.
- Chrome finish.
- Dimensions 280 x 85 x 68 mm.

ΔΔ : 945 g.

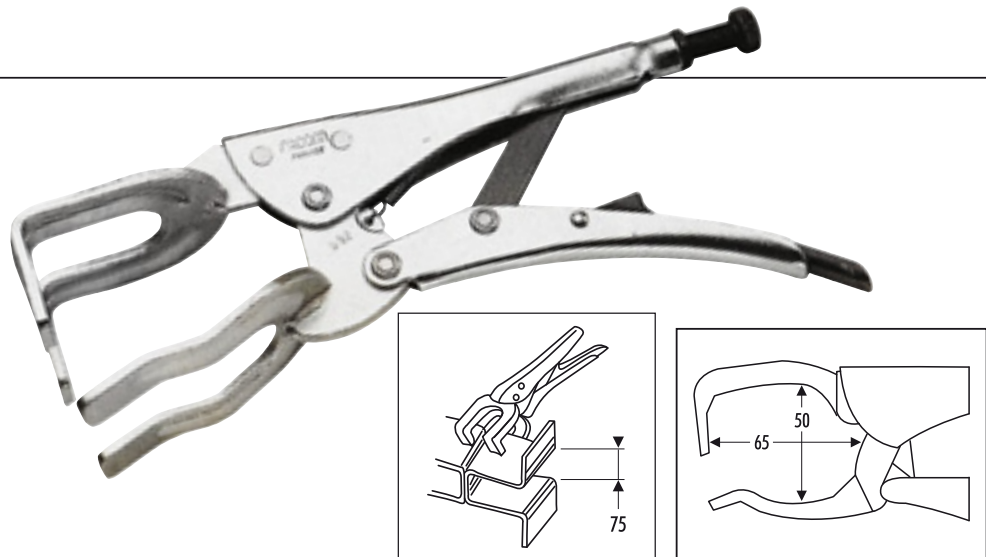


Lock-grip pliers for angle sections

512

- Secure clamping of angle and channel sections.
- Pressed-steel jaws and body.
- Chrome finish.
- Dimensions 280 x 85 x 70 mm.

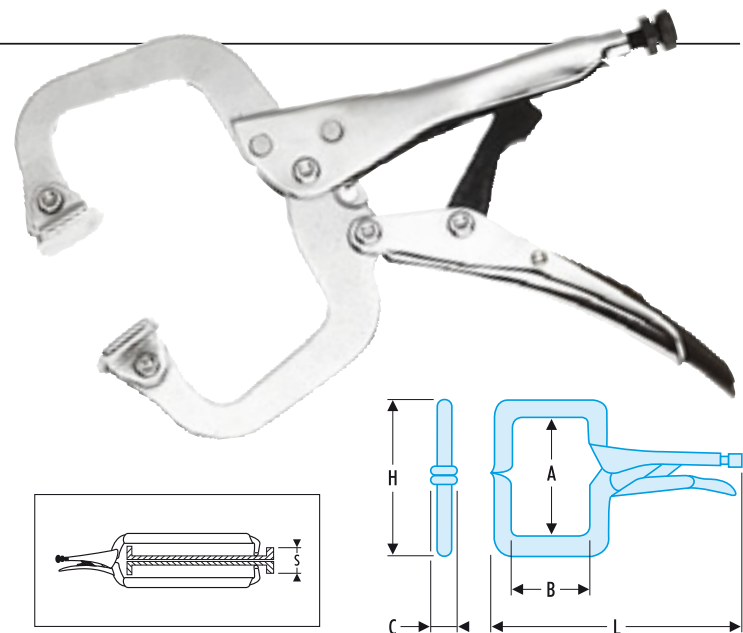
ΔΔ : 953 g.



514A - 514A.R Long-reach lock-grip pliers

- Special forged-steel jaws for secure clamping of angle sections and deep channels.
- Pressed-steel body.
- Chrome finish.
- "R" models have hinged shoes at their tips.

	S max mm	A mm	B mm	C mm	H mm	L mm	ΔΔ kg
514.45R	45	60	45	19	90	175	0,270
514A.65	70	100	65	12	150	300	0,905
514A.240	230	100	240	20	165	460	1,420
514A.240R	230	100	240	32	165	460	1,530
514A.400	370	100	400	20	165	630	1,705

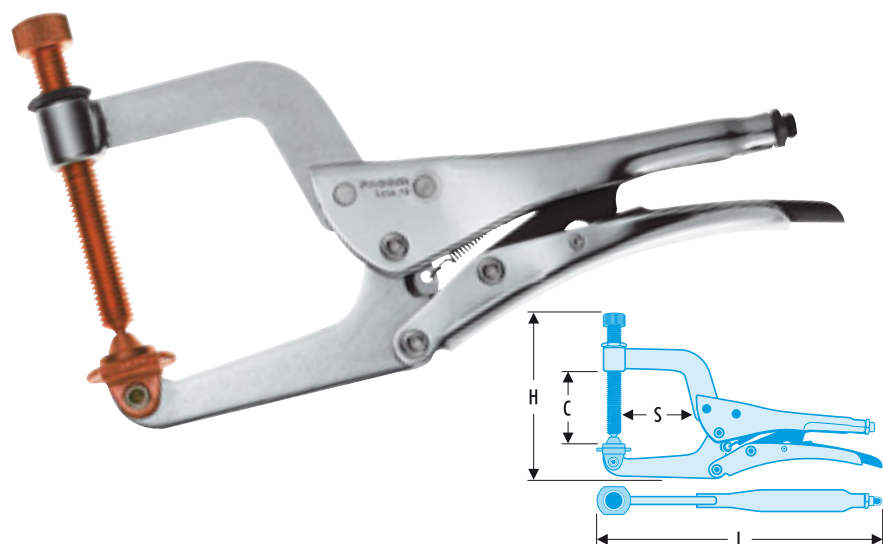


► Bar clamp lock-grip pliers

520A Lock-grip G-clamps

- Coppered screw with swivel shoe.
- Fine setting with locknut.
- Chrome finish.

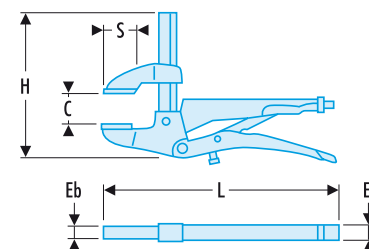
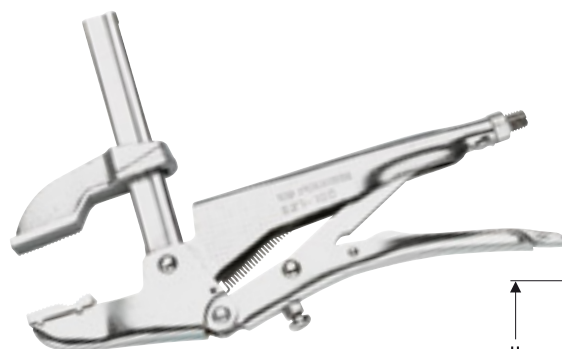
	S mm	C mm	L mm	H mm	ΔΔ kg
520A.70	70	70	280	165	1,02
520A.100	70	100	280	196	1,095
520A.170	70	170	280	270	1,250



521 G-clamp pliers with sliding jaw

- Clamping force 4,000 N, adjustable.
- Zinc-plated, forged and hardened sliding jaw.
- Case-hardened and chromed teeth.
- Lower jaw angle screw-adjustable through 9°.
- Chrome finish.

	C max mm	Eb mm	S mm	E mm	H mm	L mm	ΔΔ kg
521.100	100	15	65	28	190	260	1,02
521.150	150	15	65	28	240	260	1,11
521.200	200	15	65	28	290	260	1,18



End nippers

High-performance nippers and cutters

CUTTING EFFORT REDUCED TO A MINIMUM
For tying and cutting in one operation

Clean cut.

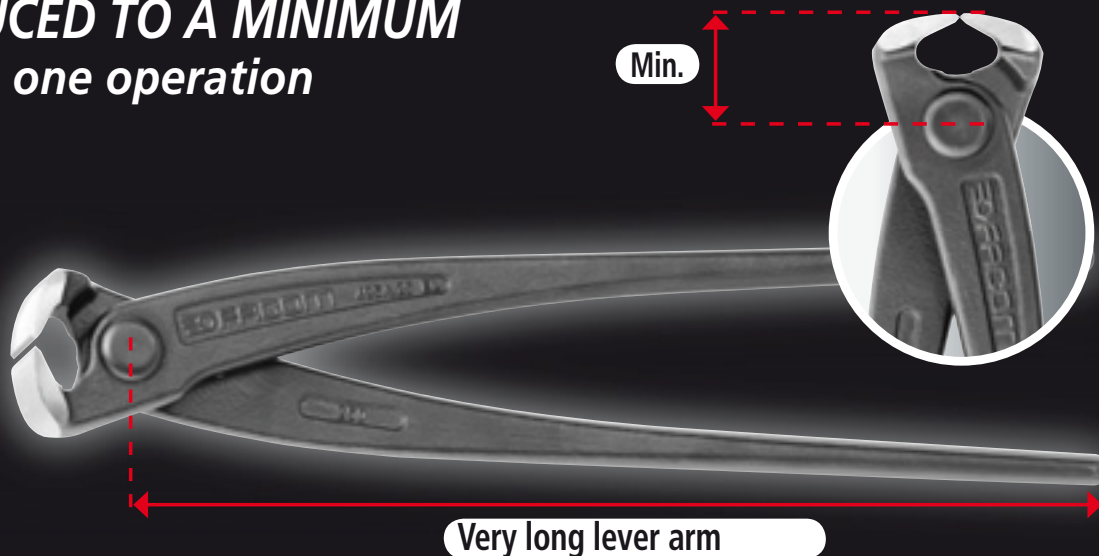
- Cutting edges sharpened after heat treatment for cleanly cutting lacing cord.

Maximum cutting power.

- Offset pivot.

Maximum accessibility.

- Tapered shape.



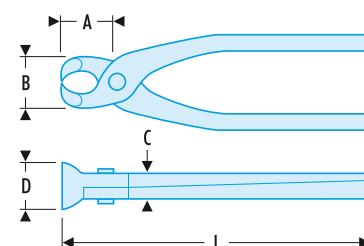
495A Heavy-duty end nippers

▷ ISO 9242, DIN ISO 9242, NF ISO 9242.

- Rounded, semi-rigid handles designed to turn quickly in the hand.
- 60/62 HRc high-frequency hardened cutting edges for long life.
- Cutting capacity;
 - To Ø 4.5 mm on soft wire (300 mm model).
 - Max. on hard wire 160 Kg/mm².
- Burnished finish, polished head.



	A mm	B mm	C mm	L mm	D mm	ΔΔ g
495A.20EL	10	28	12	200	20	240
495A.22EL	10,5	31	13	23	23	310
495A.25EL	12	35	14	250	25	390
495A.28EL	12	35	14	280	25	450
495A.30EL	12	35	14	300	25	510

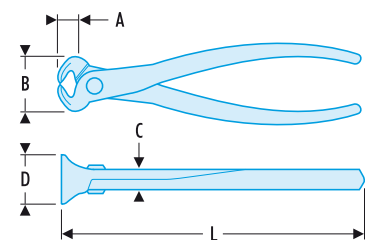


New

491 End nippers

▷ ISO 5748, DIN ISO 5748, NF ISO 5748.

- Protruding cutting edges, for mild and hard wire (max. 160 Kg/mm²).
- Offset pivot for maximum cutting power.
- 60/62 HRC high-frequency hardened cutting edges for long life.
- Burnished finish, polished head, PVC grips.



	Ø maxi mm 160 kg/mm ²	A mm	B mm	C mm	D mm	L mm	ΔΔ g
491.18G	2,6	11,5	39	14,6	32	180	300
491.20G	3,0	11,5	39	14,6	32	200	400
491.22G	3,6	12,7	43	14,6	34	220	450



For bolt croppers
see p. **503**

For PVC grip pliers
see p. **386**

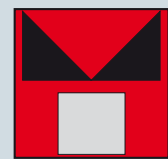
Special pliers

► Plastics cutters




Plastics cutters

*Special cutters to remove tails and burrs from injection-moulded components
HF hardened cutting edges and flush cut for clean result*

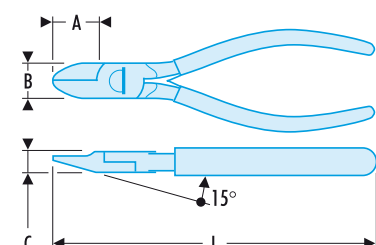
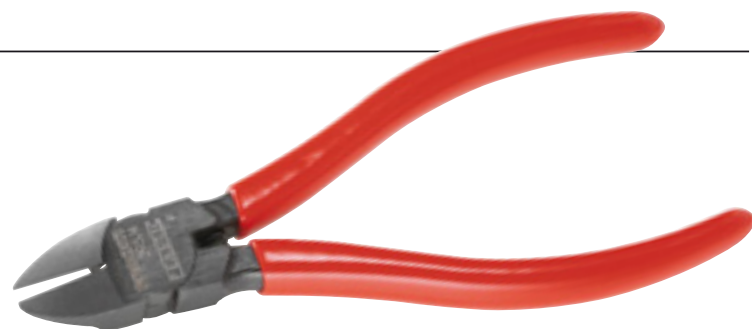


FLUSH CUT

395 Plastics cutters

- 2 joint and length sizes.
- Polished burnish finish, red PVC grips.
- Spring-assisted opening.

	Ø maxi mm	A mm	B mm	C mm	L mm	ΔΔ g
395.14	6	20	16	10	140	115
395.16	7	22	18	11	160	150

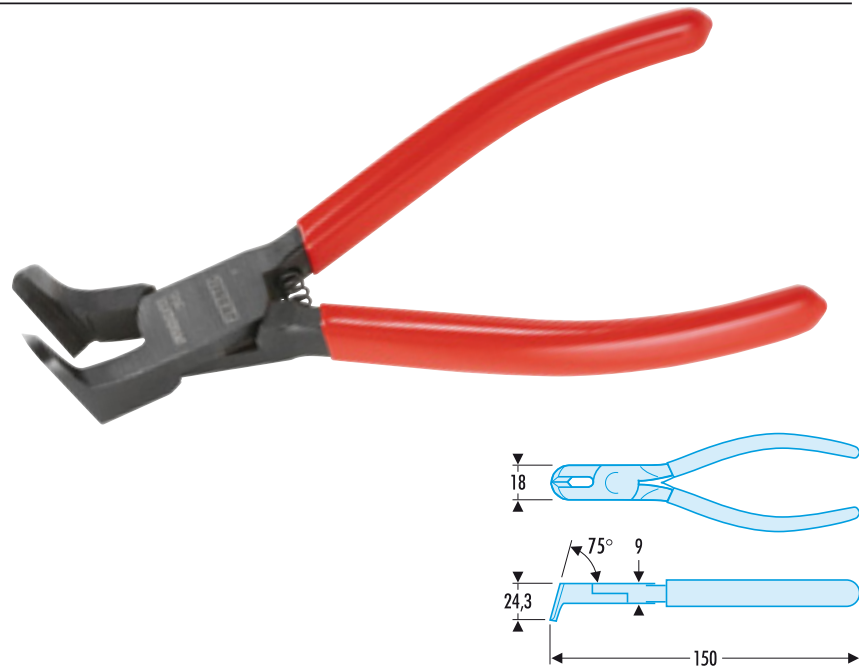


75° plastics cutters

396

- 75° cutting edges.
- Polished burnish finish, red PVC grips.
- Spring-assisted opening.

ΔΔ : 145 g.

► **Motorists pliers****186 Motorists pliers**

▷ ISO 9343, DIN ISO 9343, NF ISO 9343, ASME B 107.23 M.

- 2-position adjustable slip-joint.
- Slim nose for accessibility.
- Chrome finish, red PVC grips.

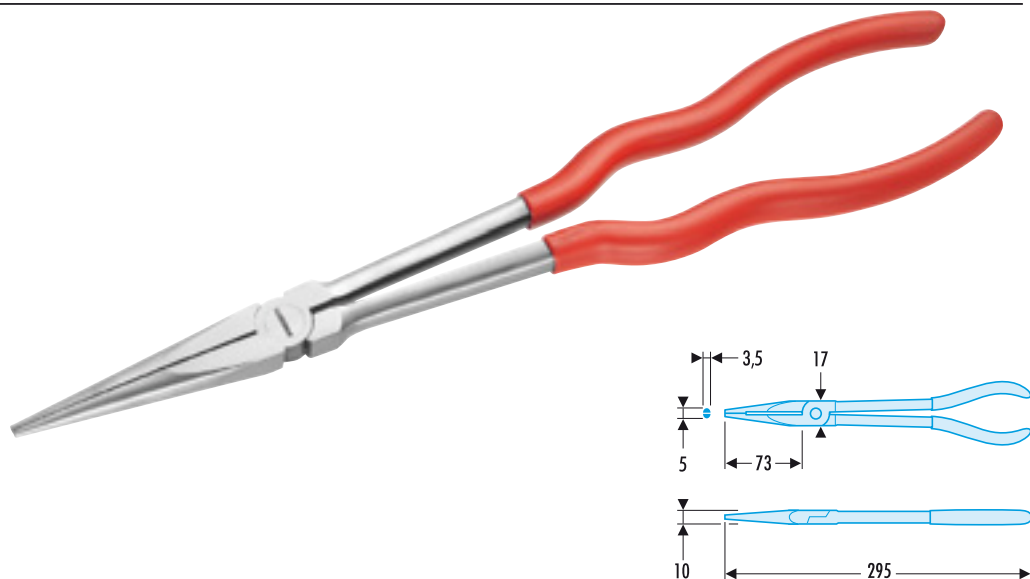


	A mm	B mm	C mm	D mm	L mm	ΔΔ g
186.7CPG	31	29	9,0	6,5	166	170
186.8CPG	35	31	10,5	7,5	204	270

► **Extra-long reach half-round nose pliers****Extra-long reach half-round nose pliers****185.28EG**

- For reaching components in confined spaces.
- Serrated jaws.
- Polished, red PVC grips.

ΔΔ : 304 g.

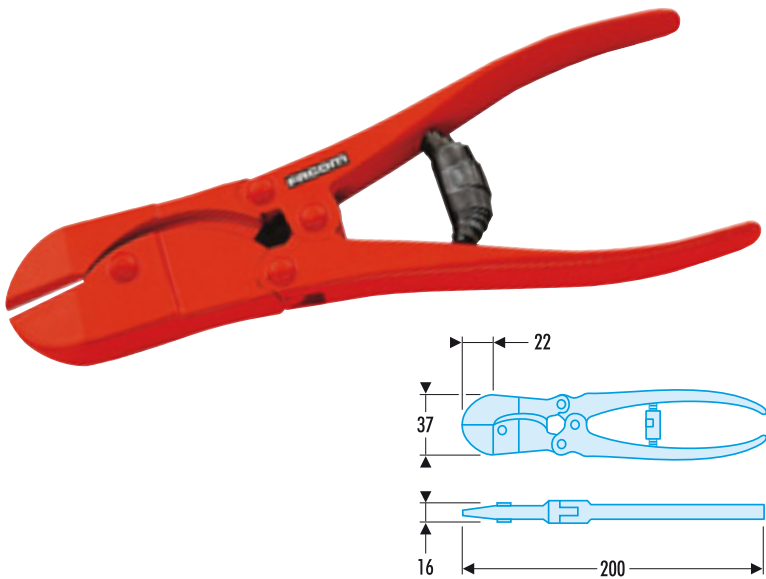


► Low-effort cutters

Diagonal cutters

171.20EL

- ISO 5749, DIN ISO 5749, NF ISO 5749.
- Demultiplication system for increased capacity with minimum cutting effort. Piano wire 200 kg/mm² : Ø 2.5 mm.
- Red paint finish.
- ΔΔ : 515 g.

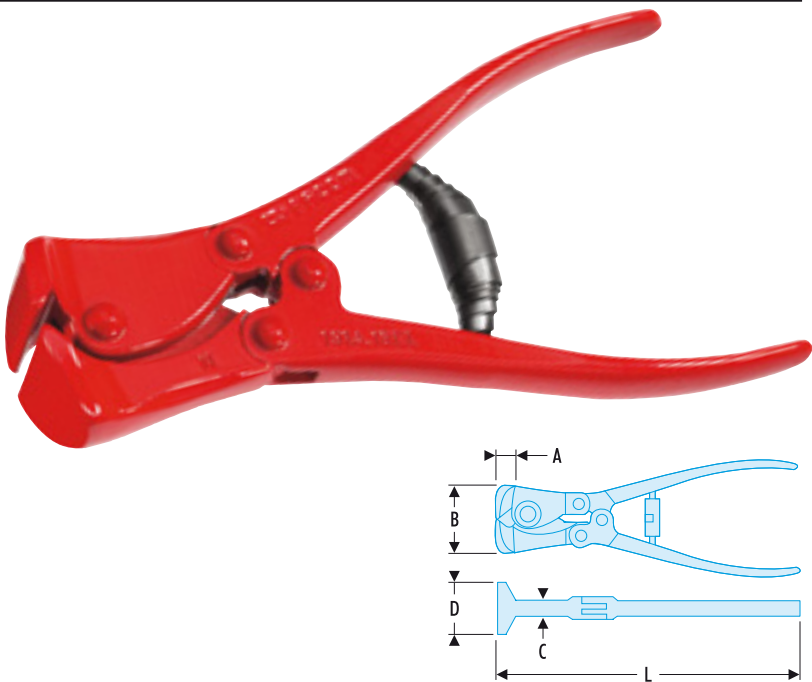


End-cutters

191A.22EL

- ISO 5748, DIN ISO 5748, NF ISO 5748.
- Compound leverage for increased capacity with minimum cutting effort. Piano wire up to 200 kg/mm².
- Red paint finish.

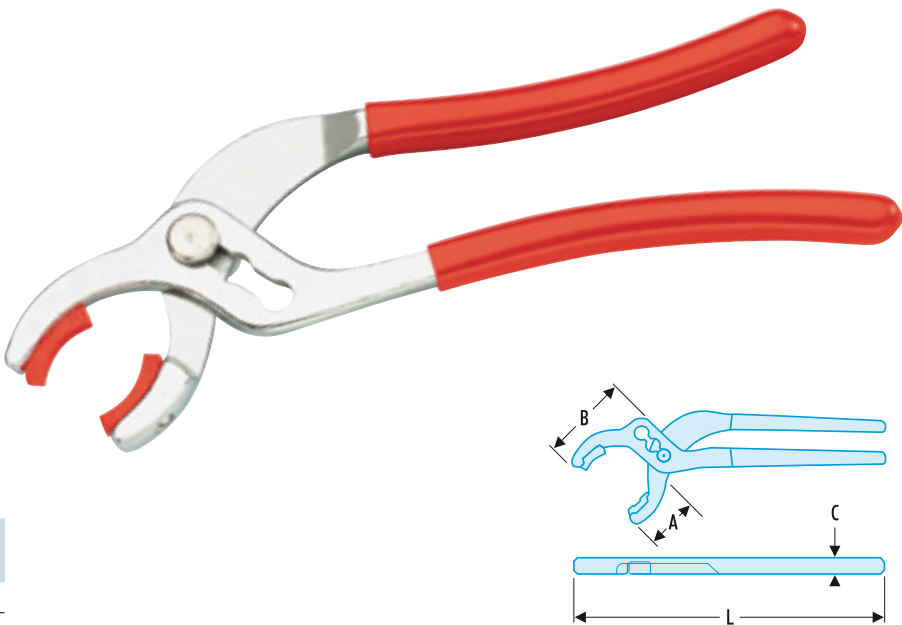
	Ø max mm	A mm	B mm	C mm	D mm	L mm	ΔΔ g
191A.22EL	2,5	9	48	17	34	210	660



► "Connector" pliers

410 Connector pliers

- For handling fragile round components, e.g. screwed connector sleeves, tubes, lamps or wire looms, etc.).
- Replaceable plastic jaws.
- Wide capacity (up to Ø 55 mm) from 3-position slip-joint.
- Polished chrome finish, red PVC grips.
- 2 jaw hardness options :
 - 410 : 410 : Hard jaws - 70 Shore B.
 - 410.S : Soft jaws - 55 Shore B.
- Spare jaws :
 - 410.1 : Set of 2 jaws with screws (hard).
 - 410.S1 : Set of 2 jaws with screws (soft).



	A mm	B mm	C mm	L mm	ΔΔ g
410	47	68	10	230	320
410.S	47	68	10	230	320



"Mechanics" set**184.J2**

- Comprising :
 - Multigrip pliers 170A.
 - Two-position slip-joint pliers 186.7CPG
 - Diagonal cutters 192.18G.
 - Half-round nose pliers 193.16G.
- Supplied as a roll set 260 x 100 x 50 mm.

184.J2	N.38A-4B	g 985

**"Maintenance" set****184.J3CPE**

- 12 tools.
- Comprising :
 - Locking multigrip pliers 181.25CPE.
 - Combination pliers 187.18CPE.
 - Diagonal cutters 192.18CPE.
 - End cutters 190.20CPE.
 - Flat-nose pliers 188.16CPE.
 - Straight half-round nose pliers 185.20CPE.
 - Angled half-round nose pliers 195.20CPE
 - Screwdriver for slotted heads AN4x100.
 - Screwdriver for slotted heads AWH6.5X150.
 - Screwdriver for slotted heads ANF6.5X150.
 - Screwdriver for Phillips® heads ANP1X100.
 - Screwdriver for Phillips® heads ANP2X125.

184.J3CPE	N.38A-12C	kg 2,2

**"Electrical fitters" set****184.J4CPE**

- Comprising :
 - Combination pliers 187.18CPE.
 - Diagonal cutters 391.16CPE.
 - Wire strippers 194.17CPE.
 - Round-nose pliers 189.17CPE.
 - Half-round nose pliers 195.20CPE.
 - Flat-nose pliers 188.16CPE.
 - 3 screwdrivers for slotted heads, 1,000V insulated A2.5X75VE, A3.5X100VE, A5.5X125VE.
 - Adjustable wrench 113A.8C.

184.J4CPE	N.38A-10C	kg 1,7



Plier sets and modules

"Electricians" set

184.J5VE

- 1,000V insulated tools to EN 60900.
- Comprising :
 - Diagonal cutters 192.16VE.
 - Combination pliers 187.18VE.
 - Half-round nose pliers 185.20VE.
 - 2 screwdrivers for slotted heads A.VE (4x100-5.5x125).
 - Screwdrivers for Pozidriv® heads AD1X100VE.

		$\Delta\Delta$
184.J5VE	N.38A-6F	kg 1,1



3-piece CPE plier set

CPE.3

- Comprising :
 - Locking multigrip pliers 181.25CPE.
 - Diagonal cutters 192.16CPE.
 - Half-round nose pliers 185.20CPE.
 - Supplied in a cardboard box.
- $\Delta\Delta$: 790 g.



4-piece CPE plier set

CPE.4

- Comprising :
 - Locking multigrip pliers 181.25CPE.
 - Diagonal cutters 192.16CPE.
 - Half-round nose pliers 185.20CPE.
 - Combination pliers 187.18 CPE.
 - Supplied in a cardboard box.
- $\Delta\Delta$: 1.02 kg.



3-piece set of 1,000 Volt pliers to EN 60900

VE.3

- Comprising :
 - Multigrip pliers 180.VE.
 - Diagonal cutters 391.16VE.
 - Angled half-round nose pliers 195.20VE.
 - Supplied in a cardboard box.
- $\Delta\Delta$: 790 g.



New**Foam 4-piece plier module****MODM.CPE1**

- Comprising :
 - 192.16CPE : diagonal cutters.
 - 185.20CPE : half-round nose pliers.
 - 181.25CPE : locking twin slip-joint multigrip pliers
 - 501 : large-capacity lock-grip pliers
 - Foam tray PM.MODCPE1.
- ΔΔ : 1.480 kg.

**3-piece "mechanics" CPE plier module****MOD.CPE**

- Comprising :
 - Half-round nose pliers 185.20CPE.
 - Combination pliers 187.18CPE.
 - Diagonal cutters 192.16CPE.
- Tray PL.627.
- ΔΔ : 942 g.

**3-piece "mechanics" TE plier module****MOD.TE**

- Comprising :
 - Half-round nose pliers 185.20TE.
 - Combination pliers 187.18TE.
 - Diagonal cutters 192.16TE.
- Tray PL.627.
- ΔΔ : 942 g.

**3-piece EN 60900-compliant 1,000 Volt VE plier module****MOD.VE**

- Comprising :
 - Multigrip pliers 180.VE.
 - Diagonal cutters 391.16VE.
 - Wire strippers 194.17VE.
- Tray PL.622.
- ΔΔ : 950 g.

**2-piece adjustable plier module****MOD.PR9**

- Comprising :
 - Locking multigrip pliers 181.25CPE.
 - Trigger-release lock-grip pliers T5.L.
- Tray PL.330.
- ΔΔ 1.160 kg.

**2-piece adjustable plier module****MOD.PR4**

- Comprising :
 - Multigrip pliers 180.CPE.
 - Trigger-release lock-grip pliers T5.L.
- Tray PL.330.
- ΔΔ : 1.158 kg.



Plier sets and modules

2-piece adjustable plier module

MOD.PR6

- Comprising :
 - Locking multigrip pliers 181.25CPE.
 - Large capacity lock-grip pliers 501.
 - Tray PL.330.
- ΔΔ : 1.19 kg.



2-piece adjustable plier module

MOD.PR8

- Comprising :
 - Multigrip pliers 180.CPE.
 - Short-nose lock-grip pliers 500.
 - Tray PL.330.
- ΔΔ : 1.094 kg.



2-piece adjustable plier module

MOD.PR1

- Comprising :
 - Notch-joint multigrip pliers 482.CPE.
 - Short-nose lock-grip pliers 500.
 - Tray PL.330.
- ΔΔ : 1.1 kg.



2-piece adjustable plier module

MOD.PR7

- Comprising :
 - Multigrip pliers 180.TE.
 - Trigger-release lock-grip pliers T5.L.
 - Tray PL.330.
- ΔΔ : 1.158 kg.



2-piece adjustable plier module

MOD.PR5

- Comprising :
 - Multigrip pliers 180.TE.
 - Short-nose lock-grip pliers 500.
 - Tray PL.330.
- ΔΔ : 1.094 kg.

