



PLIERS - CIRCLIPS® PLIERS - LOCKGRIP PLIERS



ULTRA-HIGH LEVERAGE CUTTING PLIER

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Ultra-high leverage cutting plier

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FACOM ULTRA-HIGH LEVERAGE CUTTING PLIERS

The ultimate diagonal cutting pliers

The FACOM patented ultra-high leverage diagonal cutting pliers fuses two patented designs to create the most efficient, high performance FACOM cutting pliers ever!

Extreme cutting performance.



- ① **Patented cam-curve system**
Sub categories need to be capitals.
- ② **Striking head profile**
designed to reduce stress points and provide durability.
- ③ **Sculptured upper section with finger-guard**
provides a natural fit between index finger and thumb to aid grip.
- ④ **Concealed spring return system**
reduces total user effort and strain.
- ⑤ **Patented 3-Arm cam-curve design**
multiplies the cutting force whilst maintaining a compact span that fits the hand.
- ⑥ **Bi-material grips resistant**
to industrial, automotive and aerospace chemicals (incl. Skydrol, chloroethane, acetone, petrol, etc.).
- ⑦ **Hanging hole for convenience.**



FACOM ULTRA-HIGH LEVERAGE CUTTING PLIERS

The ultimate diagonal cutting pliers



50% less cutting effort*

- Extreme patented performance.
- Patented cam-curve design multiplies the cutting force while maintaining a compact span that fits the hand.

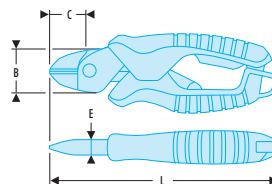
Ergonomic and compact

- Soft grip for improved comfort.

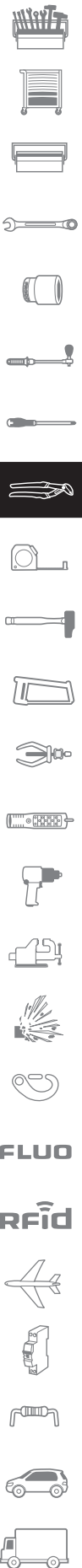
*Compared with FACOM diagonal cutting pliers 180 mm (192.18CPE).

■ Ultra-High leverage diagonal cutting pliers

- Patented cam-curve system cutting edge to cut up to 3.0mm piano wire.
- Striking head profile designed to reduce stress points and provide durability.
- Sculptured upper section with finger-guard provides a natural fit between index finger and thumb to aid grip.
- Concealed spring return system reduces total user effort and strain.
- Patented 3-Arm cam-curve design multiplies the cutting force whilst maintaining a compact span that fits the hand.
- High durability Carbon alloy steel, with induction hardened cutting edges.
- Bi-Material ergonomic grips resistant to chemical agents featuring:
 - No slide button.
 - Tether ready point.
- Chrome finish for corrosion resistance.



FACOM	B [mm]	C [mm]	E [mm]	L [mm]	ΔΔ [g]
192T.18UPE	34	21	11	173	350



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NEW CPE PLIERS

Increased durability: longer life performance

Independently tested by :



- ① Sculptured upper section with finger guard provides a natural fit aid grip.
- ② Wide lower section to increase contact with the plier aiding both grip and comfort.
- ③ Return spring reduces total user effort and strain.
- ④ Chrome plating provides maximum corrosion resistance.
- ⑤ Hanging hole.



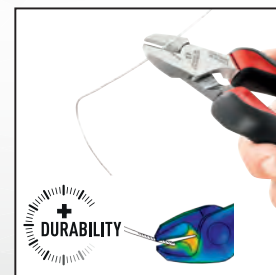
Less effort

- Cutting requires less force.



Soft grip

- For improved comfort.
- Ergonomic hand.



Increased durability

- Longer life performance.

DIAGONAL CUTTERS

192A.CPE High-performance diagonal cutters

NF ISO 5749, ISO 5749, DIN ISO 5749, ASME B107.500

- New head design to increase durability and cutting capacity
- Cutting edges designed to cleanly cut all types of wire: soft wires and modern materials to a maximum piano wire specification of:
 - 192A.16CPE : 2.0mm 210 kg/mm²
 - 192A.18CPE : 2.2mm 205 kg/mm²
 - 192A.20CPE : 2.5mm 200 kg/mm²
- High Mechanical advantage due to off-set rivet and cutting edge geometry reducing effort.
- High durability Carbon alloy steel, with induction hardened cutting edges.
- Bi-Material ergonomic grips resistant to chemical agents featuring:
 - Return spring
 - Tether ready point
 (Tether point adds 10mm to nominal length)
- Chrome finish for corrosion resistance.

	B [mm]	C [mm]	Ø maxi [mm]	E [mm]	L [mm]	ΔΔ [g]
192A.16CPE	24,0	180	2,0	10,0	160	200
192A.18CPE	26,0	20,0	2,2	11,0	180	260
192A.20CPE	28,0	22,0	2,5	11,5	200	320



391A.CPE - Electricians diagonal cutters

NF ISO 5749, ISO 5749, DIN ISO 5749, ASME B107.500

- Snipe nose for confined space (electrical cabinets, wiring).
- Semi-flush cutting edges, designed to cleanly cut through all types of wire: piano wires, 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.
- Ergonomic grips resistant to chemical agents.
- Return spring.
- Finish: chromed.

	B [mm]	C [mm]	Ø maxi [mm]	E [mm]	L [mm]	L1 [mm]	ΔΔ [g]
391A.14CPE	21,5	15,5	1,4	9,5	145	9	160
391A.16CPE	19	21	1,6	10	165	9	190



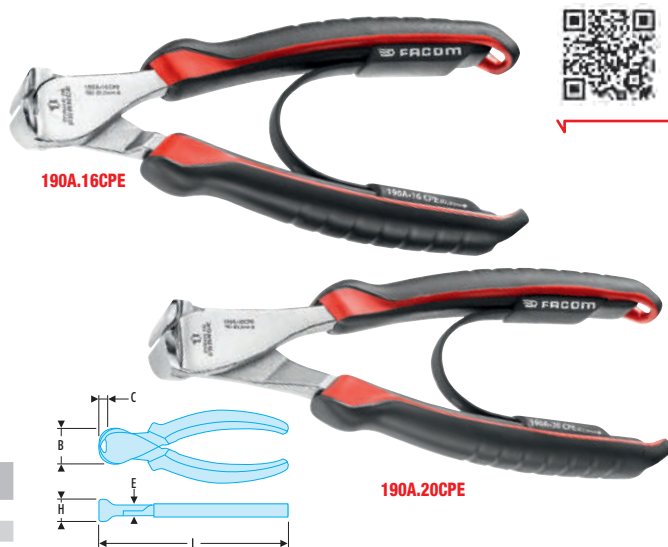
END CUTTERS

190A.CPE - High-performance end cutters

NF ISO 5748, ISO 5748, DIN ISO 5748, ASME B107.500

- Cutting edges designed to cleanly cut all types of wire: soft wires and modern materials to a maximum piano wire specification of:
 - 190A.16CPE : 2.0mm 210 kg/mm²
 - 190A.20CPE : 2.5mm 200 kg/mm²
- High Mechanical advantage due to off-set rivet and cutting edge geometry reducing effort.
- High durability carbon alloy steel, with induction hardened cutting edges.
- Bi-Material ergonomic grips resistant to chemical agents featuring:
 - Return spring
 - Tether ready point
 (Tether point adds 10mm to nominal length)
- Chrome finish for corrosion resistance.

	A [mm]	B [mm]	C [mm]	Ø maxi [mm]	E [mm]	L [mm]	[g]
190A.16CPE	6,5	28	6,5	2,0	11,5	160	200
190A.20CPE	7,5	31	7,5	2,5	13,5	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, offers comfortable and safe contact to the user's second hand.

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 varnished.
- 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).

Straight and 40° angled short-nose pliers.

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

Guaranteed cutting accuracy and consistency.

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

Industrial, automotive applications, etc...**Electrical, electromechanical applications, etc...**

HALF-ROUND NOSE PLIERS

185A-195A.CPE - Long half-round nose pliers

NF ISO 5745, ISO 5745, DIN ISO 5745, ASME B107.500

- Narrow, finely serrated tips with oval pipe-grip and side cutting edges.
- Cutting edges for copper and hard steel wire to a maximum specification of 1.6mm 160 kg/mm².
- 185A: straight nose.
- 195A: 40° angled nose.
- High durability Carbon alloy steel, with induction hardened cutting edges.
- Bi-Material ergonomic grips resistant to chemical agents featuring:
 - Return spring
 - Tether ready point
 (Tether point adds 10mm to nominal length)
- Chrome finish for corrosion resistance.



	B [mm]	C [mm]	d [mm]	d max [mm]	E [mm]	E1 [mm]	L [mm]	ΔΔ [g]
185A.20CPE	18	75	2,9	-	3,6	9	200	192
195A.20CPE	18	69	2,9	-	3,6	9	200	192
195A.16CPE	17	50	-	2,5	3	9	160	177

183A-183AE.CPE - Half-round long snipe-nose pliers

NF ISO 5745, ISO 5745, DIN ISO 5745, ASME B107.500

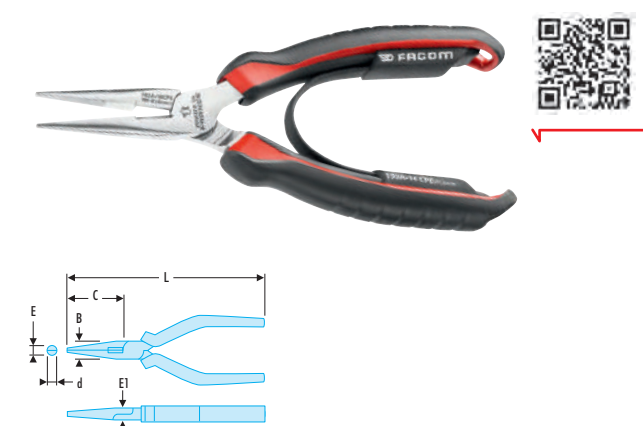
- Extra Narrow, finely serrated tips with induction hardened cutting edges.
- 183A: 40° angled tip and side cutting edges.
- 183AE: straight long thin nose with wire stripping & gripping 1.5mm² - 2.5mm² - 4mm².
- Cutting edges for copper and hard steel wire to maximum specification of 1.6mm 160 kg/mm².
- High durability Carbon alloy steel,
- with induction hardened cutting edges.
- Bi-Material ergonomic grips resistant to chemical agents featuring:
 - Return spring
 - Tether ready point
 (Tether point adds 10mm to nominal length)
- Chrome finish for corrosion resistance.



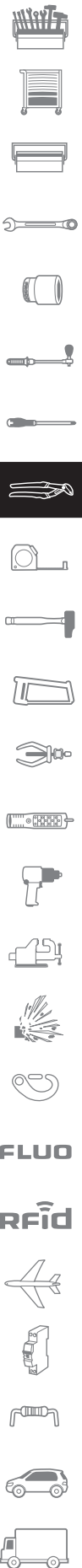
	C [mm]	E [mm]	E1 [mm]	E2 [mm]	L [mm]	L1 [mm]	ΔΔ [g]
183A.20CPE	69	3	18	9	200	2,5	185
183AE.20CPE	69	3	18	9	200	2,5	185

Short half-round nose plier

- Narrow, finely serrated tips with side cutting edges.
- Cutting edges for copper and hard steel wire to a maximum specification of 1.6mm 160 kg/mm².
- High durability Carbon alloy steel, with induction hardened cutting edges.
- Bi-Material ergonomic grips resistant to chemical agents featuring:
 - Return spring
 - Tether ready point
 (Tether point adds 10mm to nominal Length)
- Chrome finish for corrosion resistance.



	B [mm]	C [mm]	d max [mm]	E [mm]	E1 [mm]	L [mm]	ΔΔ [g]
193A.16CPE	17	50	2,5	3	9	160	177



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COMBINATION PLIERS

187A.CPE - Combination pliers



NF ISO 5746, ISO 5746, DIN ISO 5746, ASME B107.500

- Serrated flat and oval pipe/cable gripping surfaces combined with a high performance cutting edges.
- Cutting edges designed to cleanly cut all types of wire: soft wires and modern materials to a maximum piano wire specification of:
 - 187A.16CPE : 1.8mm 215 kg/mm²
 - 187A.18CPE : 2.0mm 210 kg/mm²
 - 187A.20CPE : 2.2mm 205 kg/mm²
 - 187AP.20CPE : 2.2mm 205 kg/mm²
- 187AP features nail & screw gripping channels
- High Mechanical advantage due to off-set rivet and cutting edge geometry reducing effort.
- High durability Carbon alloy steel, with induction hardened cutting edges.
- Bi-Material ergonomic grips resistant to chemical agents featuring:
 - Return spring
 - Tether ready point (Tether point adds 10mm to nominal length)
- Chrome finish for corrosion resistance.



Model	B [mm]	C [mm]	E [mm]	L [mm]	Piano Diameter [mm]	ΔΔ [g]
187A.16CPE	21	34	9,5	165	1,8	195
187A.18CPE	23	36	10,0	185	2,0	225
187A.20CPE	26	42	11,5	205	2,2	300
187AP.20CPE	26	42	11,5	205	2,2	300

FLAT-NOSE PLIERS

188A.CPE - Flat nose pliers



NF ISO 5745, ISO 5745, DIN ISO 5745, ASME B107.500

- Narrow flat shaped and finely serrated nose for a firm grip and accessibility
 - 188A: Straight Nose
 - 188AC: Bent Nose
- High durability Carbon alloy steel.
- Bi-Material ergonomic grips resistant to chemical agents featuring:
 - Return spring
 - Tether ready point (Tether point adds 10mm to nominal Length)
- Chrome finish for corrosion resistance.



Model	B [mm]	E [mm]	E1 [mm]	E2 [mm]	L [mm]	L1 [mm]	ΔΔ [g]
188A.16CPE	46	4,0	18	9	168	6,5	140
188A.20CPE	75	4,0	18	9	200	6,5	200
188AC.16CPE	46	4,0	18	9	168	6,5	140

ROUND NOSE PLIERS

Round nose pliers



NF ISO 5745, ISO 5745, DIN ISO 5745, ASME B107.500

- For shaping loops, bends or rings.
- Finely serrated jaws for a positive grip.
- Diameter of each nose at the end: 2 mm.
- High durability Carbon alloy steel.
- Bi-Material ergonomic grips resistant to chemical agents featuring:
 - Return spring
 - Tether ready point (Tether point adds 10mm to nominal Length)
- Chrome finish for corrosion resistance.



Model	C [mm]	d [mm]	E [mm]	E1 [mm]	E2 [mm]	L [mm]	ΔΔ [g]
189A.17CPE	41	2	4	18	9	170	135

STANDARD WIRE STRIPPERS

Wire strippers

ASME B107.500

- For single and multi-core wires 0.5 to 6 mm².
- Adjustment screw with lock nut.
- Metal return spring.
- High durability Carbon alloy steel.
- Bi-Material ergonomic grips resistant to chemical agents featuring:
 - Tether ready tether point. (Tether point adds 10mm to nominal length)
- Chrome finish for corrosion resistance.



	B [mm]	Ø mini - maxi [mm]	E [mm]	L [mm]	ΔΔ [g]
194A.17CPE	17	0,5 - 6,0	8,5	170	185

DIAGONAL CUTTERS

SERIES "G" VARNISHED, POLISHED PLIERS

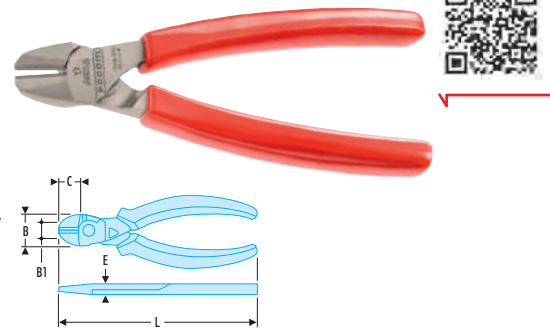
- High durability Carbon alloy steel, with induction hardened cutting edges.
- Mono-Material ergonomic grips maintaining accessibility benefits of classic dip grips, resistant to workshop chemical agents
- Varnish finish to help prevent rusting.



192A.G - High-performance diagonal cutters

NF ISO 5749, ISO 5749, DIN ISO 5749, ASME B107.500

- New head design to increase durability and cutting capacity
- Cutting edges designed to cleanly cut all types of wire: soft wires and modern materials to a maximum piano wire specification of:
 - 192A.16G : 2.0mm 210 kg/mm²
 - 192A.18G : 2.2mm 205 kg/mm²
 - 192A.20G : 2.5mm 200 kg/mm²
- High Mechanical advantage due to off-set rivet and cutting edge geometry reducing effort.

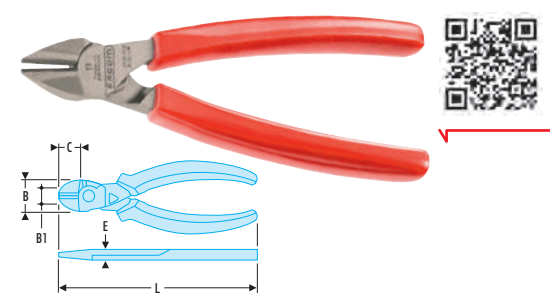


	B [mm]	C [mm]	d maxi [mm]	E [mm]	L [mm]	ΔΔ [g]
192A.16G	24,0	18,0	2,0	10,0	160	170
192A.18G	26,0	20,0	2,2	11,0	180	230
192A.20G	28,0	22,0	2,5	11,5	200	290

391A.G - Electricians diagonal cutters

NF ISO 5749, ISO 5749, DIN ISO 5749, ASME B107.50

- Snipe nose for confined space (electrical cabinets, wiring).
- Semi-flush cutting edges, designed to cleanly cut through all types of wire: piano wires (max. 200 kg/mm²), thin copper wires, modern materials.
- Long lever arm, offset pivot for minimum cutting effort.



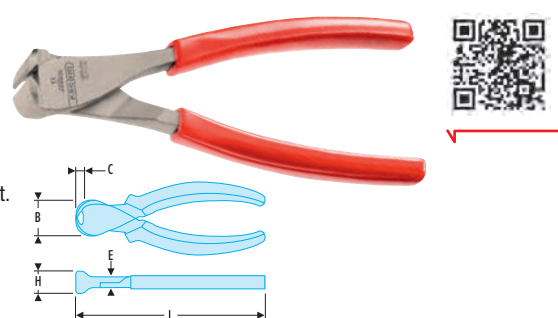
	B [mm]	C [mm]	E [mm]	L [mm]	ΔΔ [g]
391A.14G	21,5	15,5	9,5	145	130
391A.16G	19	21	10	165	160

END CUTTERS

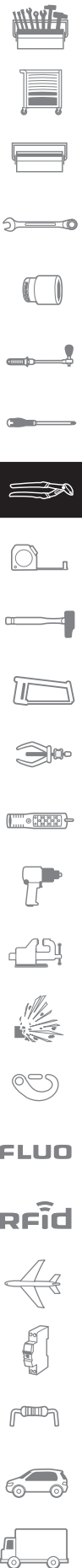
190A.G - High-performance end cutters

NF ISO 5748, ISO 5748, DIN ISO 5748, ASME B107.500

- Cutting edges designed to cleanly cut all types of wire: soft wires and modern materials to a maximum piano wire specification of:
 - 190A.16G : 2.0mm 210 kg/mm²
 - 190A.20G : 2.5mm 200 kg/mm²
- High Mechanical advantage due to off-set rivet and cutting edge geometry reducing effort.

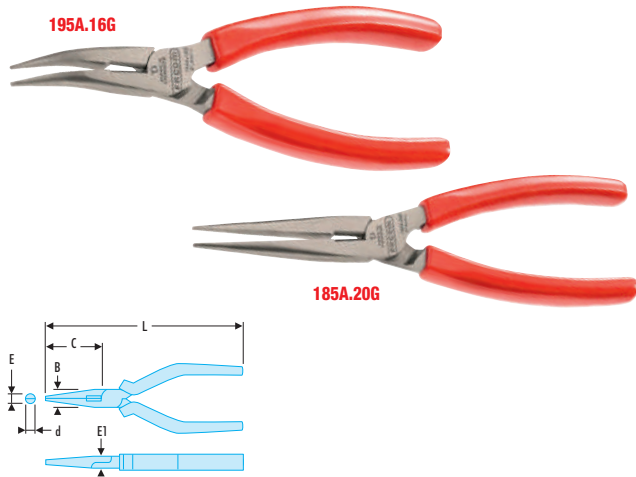


	B [mm]	C [mm]	d maxi [mm]	E [mm]	H [mm]	L [mm]	ΔΔ [g]
190A.16G	28	6,5	2,0	11,5	23	160	170
190A.20G	31	7,5	2,5	13,5	29	200	310



HALF-ROUND NOSE PLIERS

185A-195A.G - Long half-round nose pliers

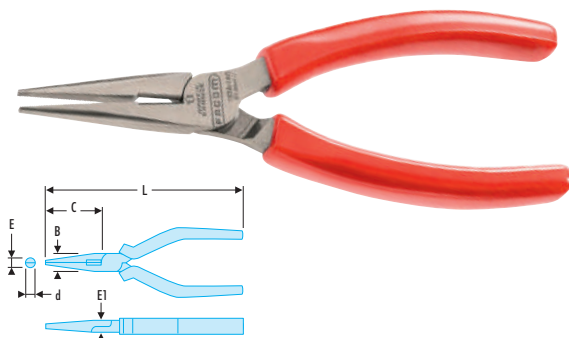


NF ISO 5745, ISO 5745, DIN ISO 5745, ASME B107.500

- Narrow, finely serrated tips with side cutting edges.
- Cutting edges for copper and hard steel wire to a maximum specification of 1.6mm 160 kg/mm².
 - 183AE: straight long thin nose with wire stripping & gripping 1.5mm² - 2.5mm² - 4mm².
 - 185: straight nose.
 - 195: 40° angled nose.
- High durability carbon alloy steel, with induction hardened cutting edges.
- Mono-Material ergonomic grips maintaining accessibility benefits of classic dip grips, resistant to workshop chemical agents
- Varnish finish to help prevent rusting.

Model	B [mm]	C [mm]	d [mm]	E [mm]	E1 [mm]	L [mm]	ΔΔ [g]
185A.20G	18	75	2,9	3,6	9	200	192
195A.16G	17	50	2,5	3,0	9	160	177
195A.20G	18	69	2,9	3,6	9	200	192

Short half-round nose plier



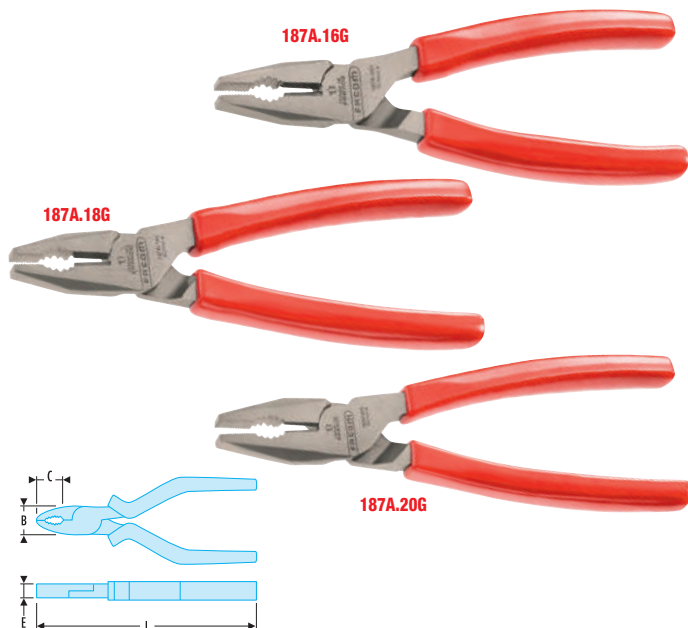
NF ISO 5745, ISO 5745, DIN ISO 5745, ASME B107.500

- Narrow, finely serrated tips with side cutting edges.
- Cutting edges for copper and hard steel wire to a maximum specification of 1.6mm 160 kg/mm².
- High durability carbon alloy steel, with induction hardened cutting edges.
- Mono-Material ergonomic grips maintaining accessibility benefits of classic dip grips, resistant to workshop chemical agents
- Varnish finish to help prevent rusting.

Model	B [mm]	C [mm]	d [mm]	E [mm]	E1 [mm]	L [mm]	ΔΔ [g]
193A.16G	17	50	2,5	3	9	160	177

COMBINATION PLIERS

187A.G - Combination pliers



NF ISO 5746, ISO 5746, DIN ISO 5746, ASME B107.500

- Serrated flat and oval pipe/cable gripping surfaces combined with a high performance cutting edges.
- Cutting edges designed to cleanly cut all types of wire: soft wires and modern materials to a maximum piano wire specification of:
 - 187A.16G : 1.8mm 215 kg/mm²
 - 187A.18G : 2.0mm 210 kg/mm²
 - 187A.20G : 2.2mm 205 kg/mm²
- High Mechanical advantage due to off-set rivet and cutting edge geometry reducing effort.
- High durability carbon alloy steel, with induction hardened cutting edges.
- Mono-Material ergonomic grips maintaining accessibility benefits of classic dip grips, resistant to workshop chemical agents
- Varnish finish to help prevent rusting.

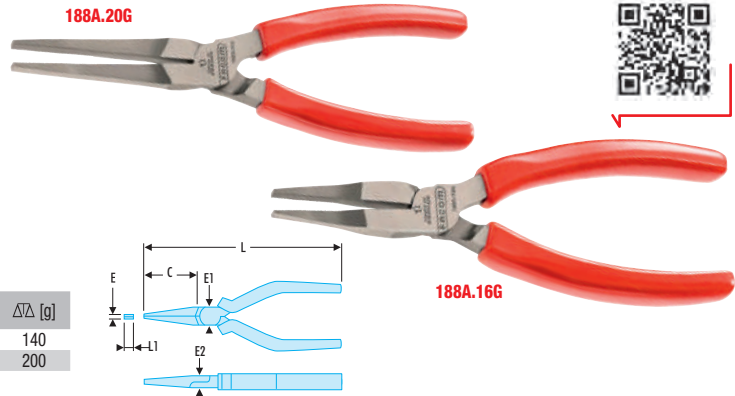
Model	B [mm]	C [mm]	E [mm]	E1 [mm]	L [mm]	ΔΔ [g]
187A.16G	21	34	21	9,5	165	195
187A.18G	23	36	23	10,0	185	225
187A.20G	26	42	26	11,5	205	300

FLAT-NOSE PLIERS

188A.G - Flat nose pliers

NF ISO 5745, ISO 5745, DIN ISO 5745, ASME B107.500

- Narrow flat shaped and finely serrated nose for a firm grip and accessibility.
- High durability carbon alloy steel.
- Mono-Material ergonomic grips maintaining accessibility benefits of classic dip grips, resistant to workshop chemical agents.
- Varnish finish to help prevent rusting.



	C [mm]	E [mm]	E1 [mm]	E2 [mm]	L [mm]	L1 [mm]	ΔΔ [g]
188A.16G	46	4	18	9	168	6,5	140
188A.20G	75	4	18	9	200	6,5	200

CUTTING PLIERS

PRECISION CUTTERS

3 types of cut:

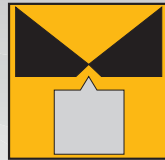
AXIAL

Hard cutting edges for all materials.



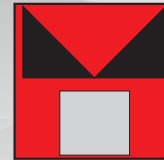
SEMI-FLUSH

Clean cut in semi-hard materials.



FLUSH

Smooth burr-free finish.

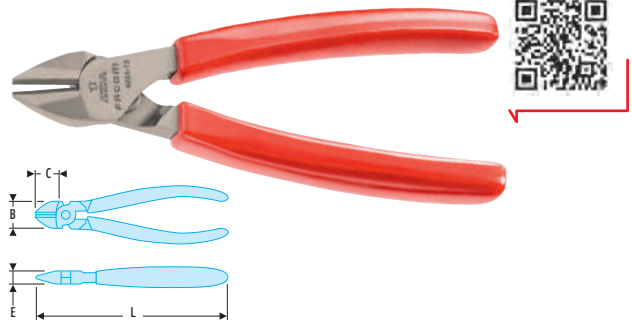


Micro-Tech® electronic pliers. See Electronic Section p.974

"Compact" diagonal cutter

NF ISO 5749, ISO 5749, DIN ISO 5749, ASME B107.500

- Capacity:
 - Hard wire 160 kg/mm²: diameter 1.6 mm.
 - Semi-hard wire 100 kg/mm²: diameter 1.8 mm.
- Mono-Material ergonomic grips maintaining accessibility benefits of classic dip grips, resistant to workshop chemical agents.
- Varnish finish to help prevent rusting.

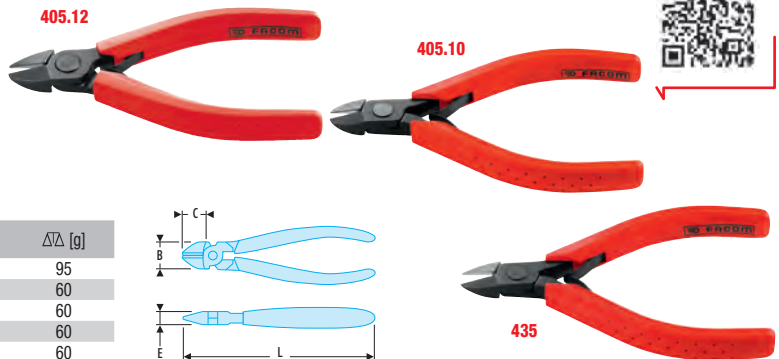


	B [mm]	C [mm]	E [mm]	L [mm]	ΔΔ [g]
405A.15	24,0	18,0	10,0	160	160

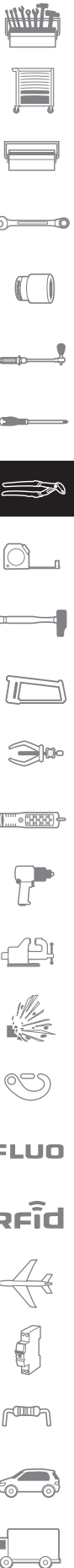
405-416-425-435- Diagonal cutters

NF ISO 5749, ISO 5749, DIN ISO 5749, ASME B107.500

- 405: Axial cut.
- 416 - 435: Semi-flush cut, slim nose.
- 425: Flush cut, nose extended 13 mm.
- Finish: Matt burnished finish, red grips - return spring.
- Copper only (for 405.10 and 405.12).

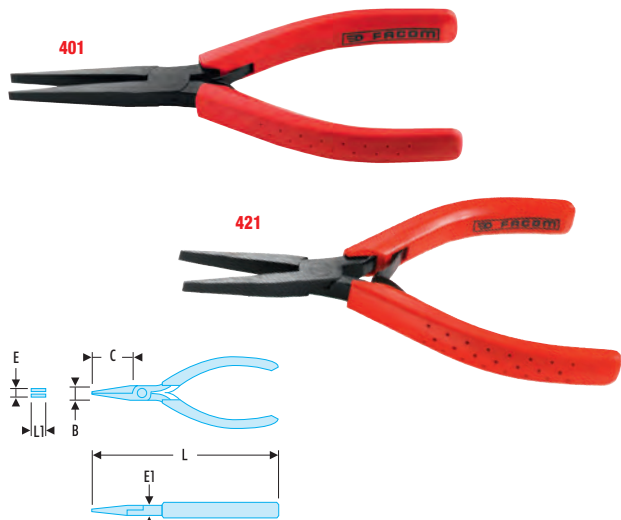


	B [mm]	C [mm]	E [mm]	L [mm]	ΔΔ [g]
405.12	16,0	16,0	16,0	120	95
405.10	11,5	10,5	10,5	110	60
435	13,0	10,5	10,5	110	60
416	11,5	10,5	10,5	110	60
425	13,0	10,5	10,5	110	60



FLAT-NOSE PLIERS

401-421 - Flat nose pliers



NF ISO 9655, ISO 9655, DIN ISO 9655, ASME B107.500

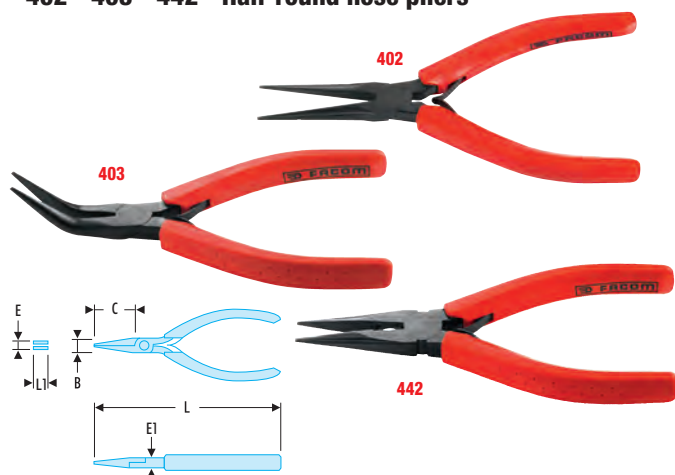
- Smooth jaws with contoured inside edges to protect components.
- Finish: Matt burnished finish, red grips.



Model	B [mm]	C [mm]	E [mm]	E1 [mm]	L [mm]	L1 [mm]	ΔΔ [g]
401	48	14	5	1	160	8	80
421	33	11	3	1	130	7	70

HALF-ROUND NOSE PLIERS

402 - 403 - 442 - Half-round nose pliers



NF ISO 5745, ISO 5745, DIN ISO 5745, ASME B107.500

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



Model	B [mm]	C [mm]	E [mm]	E1 [mm]	L [mm]	L1 [mm]	ΔΔ [g]
402	48	14	14	1,5	160	8	76
403	45	14	14	1,2	155	8	75
442	42	14	14	3,8	150	8	88

WIRE STRIPPERS

Fine wire strippers



- Max. AWG 14.
- For light-gauge wire.
- Narrow blades.
- Cutting depth presetting.
- Single and multi-core wire diameter: 1,5 mm.
- Cross-section: 1,8 mm².
- Length: 130 mm.
- Finish: burnished, PVC grip.



Model	L [mm]	ΔΔ [g]
194.12	130	70

PLIERS

NEW 1,000 VOLTS INSULATED PLIERS

Increased durability: longer life performance

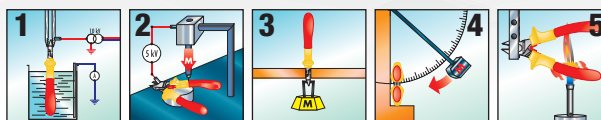


Less effort
 • Cutting requires less force, return spring reduces total user effort and strain.



Insulation tests
 Tools to EN 60900 specifications
 ① Immersion test
 ② Penetration test
 ③ Insulation adhesion test
 ④ Impact test
 ⑤ Non-flammability test

• Sculptured upper section with finger-guard provides a natural fit to aid grip.



• Wide lower section to increase contact with the plier aiding both grip and comfort.

SOFT GRIP
 Soft grip
 • For improved comfort.

Information

- Compliance with European standard EN 60900.
- For working on live components up to 1,000 volt AC.
- Each and every tool is tested to 10,000 volt for 10 seconds at the end of the manufacturing cycle.
- Our production site is accredited and certified to produce insulated tools.

Safety

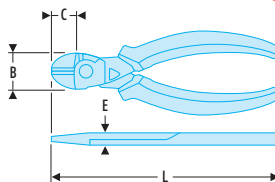
- Prevent damage to insulation from:
 - Heat (-20 to +70°C working temperature)
 - Chemicals
 - Cuts or perforations.
- Check insulation is sound before using a tool.
- Wear insulating gloves and eye protection.

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

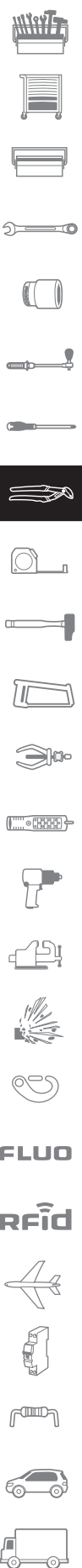


NF ISO 5749, ISO 5749, DIN ISO 5749, ASME B107.500, NF EN 60900, EN 60900, DIN EN 60900

- For your safety, all pliers are tested individually at 10,000 Volt for 10 seconds, at the end of the manufacturing cycle.
- New head design to increase durability and cutting capacity
- Cutting edges designed to cleanly cut all types of wire: soft wires and modern materials to a maximum piano wire specification of:
 - 192A.16VE : 2.0mm 210 kg/mm²
 - 192A.18VE : 2.2mm 205 kg/mm²
- High mechanical advantage due to off-set rivet and cutting edge geometry reducing effort.
- High durability carbon alloy steel, with induction hardened cutting edges.
- Bi-Material ergonomic grips resistant to chemical agents.
 - Return spring.
 - Tether ready (Tether point adds 10mm to nominal length).
- Varnish finish to help prevent rusting.

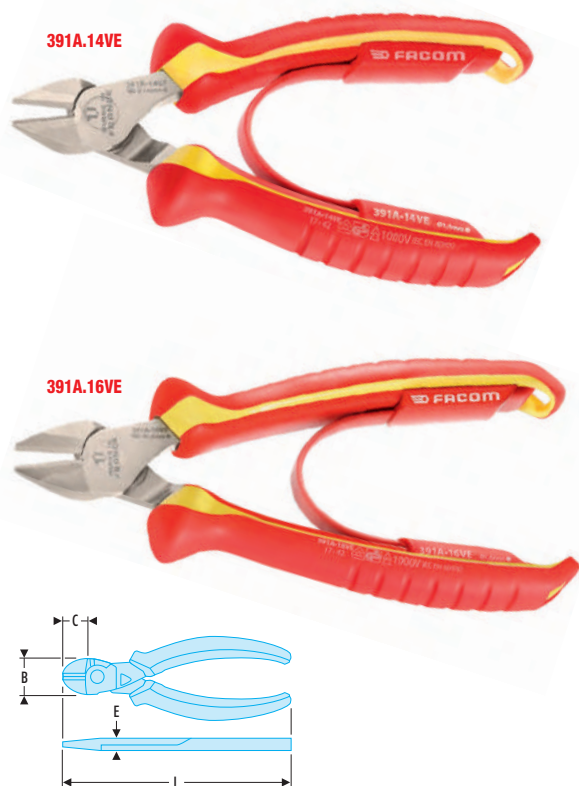


	B [mm]	C [mm]	d maxi [mm]	E [mm]	L [mm]	Cu - Ø max [mm ²]	ΔΔ [g]
192A.16VE	24,0	18,0	2,0	10,0	160	0,7 - 4,0	200
192A.18VE	26,0	20,0	2,2	11,0	180	0,7 - 4,5	260



DIAGONAL CUTTERS

■ 391A.VE - 1,000 volt insulated electricians diagonal cutters



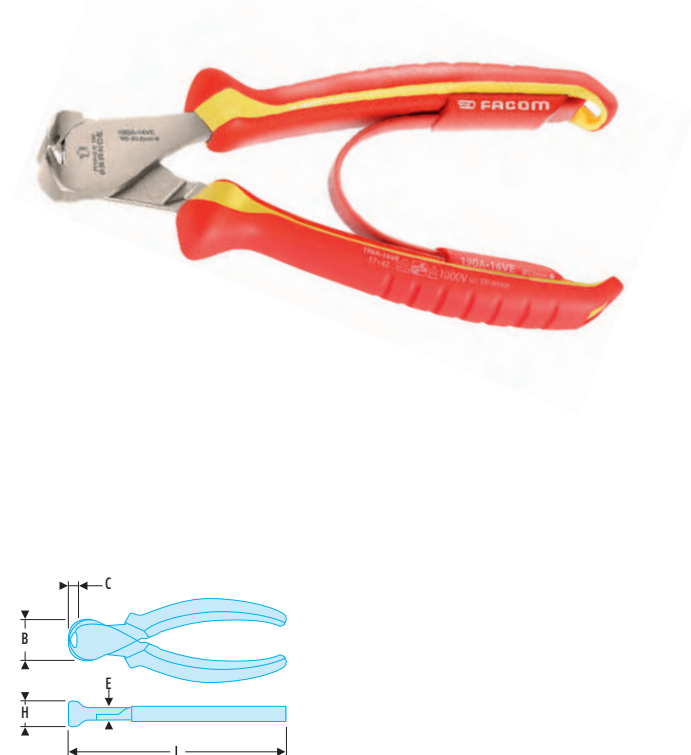
NF ISO 5749, ISO 5749, DIN ISO 5749, ASME B107.500

- Snipe nose for confined space (electrical cabinets, wiring).
- Cutting edges designed to cleanly cut all types of wire: soft wires and modern materials to a maximum piano wire specification of:
 - 391A.14VE : 1.4mm 225 kg/mm²
 - 391A.16VE : 1.6mm 220 kg/mm²
- High mechanical advantage due to off-set rivet and cutting edge geometry reducing effort.
- High durability chrome-molybdenum-vanadium steel, with induction hardened cutting edges.
- Bi-Material ergonomic grips resistant to chemical agents.
 - Return spring
 - Tether ready
 (Tether point adds 10mm to nominal length)

	B [mm]	C [mm]	E [mm]	L [mm]	L1 [mm]	ΔΔ [g]
391A.14VE	21,5	15,5	9,5	145	9	190
391A.16VE	19	21	10	165	9	190

END CUTTERS

■ 1,000 Volt insulated high-performance end cutters



NF ISO 5748, ISO 5748, DIN ISO 5748, ASME B107.500

- Cutting edges designed to cleanly cut all types of wire: soft wires and modern materials to a maximum piano wire specification of:
 - 190A.16VE: 2.0mm 210 kg/mm²
- High mechanical advantage due to off-set rivet and cutting edge geometry reducing effort.
- High durability Carbon alloy steel, with induction hardened cutting edges.
- Bi-Material ergonomic grips resistant to chemical agents.
 - Positive return spring
 - Tether ready tether point
 (Tether point adds 10mm to nominal length)

	A [mm]	B [mm]	C [mm]	d maxi [mm]	E [mm]	L [mm]	ΔΔ [g]
190A.16VE	6,5	28	6,5	2,0	11,5	160	200

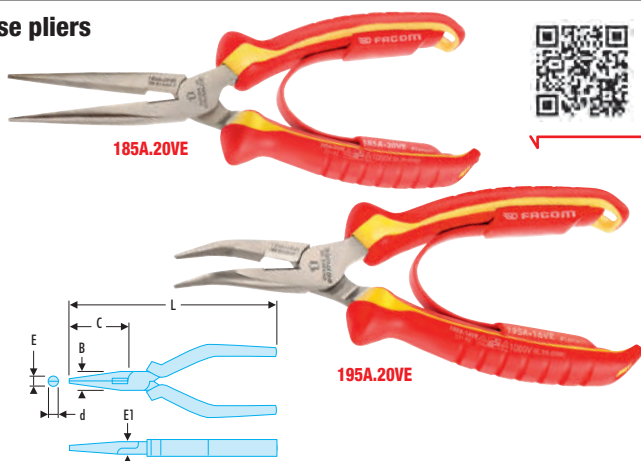
HALF-ROUND NOSE PLIERS

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

NF ISO 5745, ISO 5745, DIN ISO 5745, ASME B107.500, NF EN 60900, EN 60900, DIN EN 60900

- For your safety, all pliers are tested individually at 10,000 Volt for 10 seconds, at the end of the manufacturing cycle.
- Slim, fine serrated noses.
- Lateral wire cutter for copper and hard steel wire.
- 185A.20VE: straight nose.
- 195A.20VE: 40° angled nose.
- Return spring.
- Ergonomic anti-slip grips.
- Finish: polished, varnished.

	B [mm]	C [mm]	d [mm]	E [mm]	E1 [mm]	L [mm]	160 kg/mm ² [Ø mm]	Cu - Ø max [mm ²]	ΔΔ [g]
185A.20VE	18	75	2,9	3,6	9	200	1,6	0,7 - 3,5	192
195A.20VE	18	69	2,9	3,6	9	200	1,6	0,7 - 3,5	192

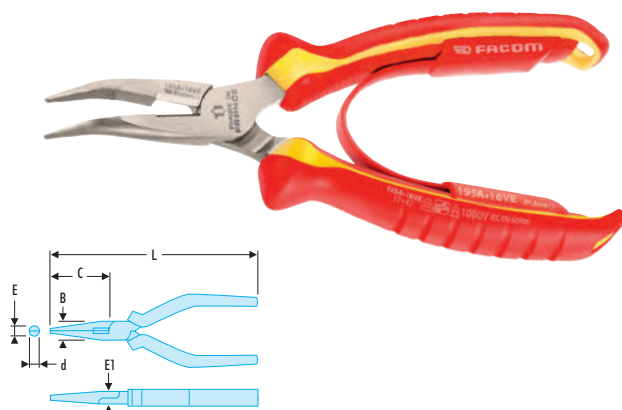


■ 193A-195A.VE - 1,000 Volt insulated short half-round nose pliers

NF ISO 5745, ISO 5745, DIN ISO 5745, ASME B107.500, NF EN 60900, EN 60900, DIN EN 60900

- For your safety, all pliers are tested individually at 10,000 Volt for 10 seconds, at the end of the manufacturing cycle.
- Narrow, finely serrated tips with side cutting edges.
 - 193.VE: straight nose.
 - 195.VE: 40° angled nose.
- Cutting edges for copper and hard steel wire to a maximum specification of 1.6mm 160 kg/mm².
- High durability carbon alloy steel, with induction hardened cutting edges.
- Bi-Material ergonomic grips resistant to chemical agents featuring:
 - Return spring
 - Tether ready
 (Tether point adds 10mm to nominal length)
- Varnish finish to help prevent rusting.

	B [mm]	C [mm]	d [mm]	E [mm]	E1 [mm]	L [mm]	160 kg/mm ² [Ø mm]	Cu - Ø max [mm ²]	ΔΔ [g]
193A.16VE	17	50	2,5	3	9	160	1,6	0,7 - 3,0	177
195A.16VE	17	50	2,5	3	9	160	1,6	0,7 - 3,0	177



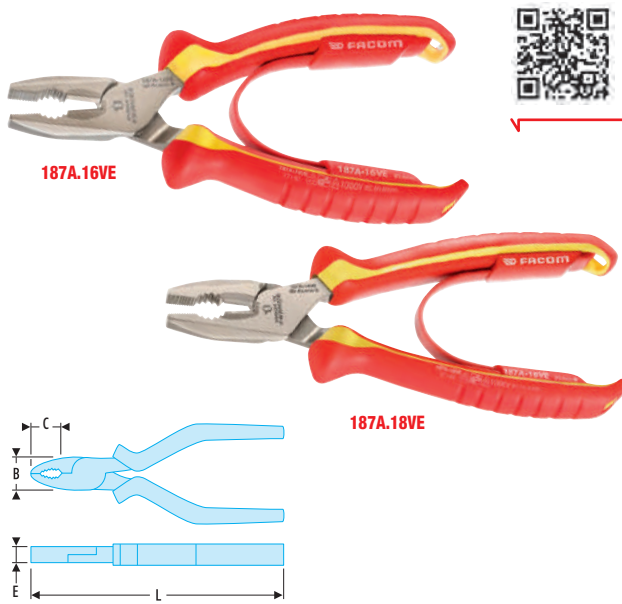
COMBINATION PLIERS

■ 187A.VE - 1,000 Volt insulated combination pliers

NF ISO 5746, ISO 5746, DIN ISO 5746, ASME B107.500, NF EN 60900, EN 60900, DIN EN 60900

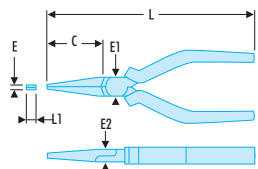
- For your safety, all pliers are tested individually at 10,000 Volt for 10 seconds, at the end of the manufacturing cycle.
- Serrated flat and oval pipe/cable gripping surfaces combined with a high performance cutting edges.
- Cutting edges designed to cleanly cut all types of wire: soft wires and modern materials to a maximum piano wire specification of:
 - 187A.16VE : 1.8mm 215 kg/mm²
 - 187A.18VE : 2.0mm 210 kg/mm²
- High mechanical advantage due to off-set rivet and cutting edge geometry reducing effort.
- High durability carbon alloy steel, with induction hardened cutting edges.
- Bi-Material ergonomic grips resistant to chemical agents featuring:
 - Return spring
 - Tether ready
 (Tether point adds 10mm to nominal length)
- Varnish finish to help prevent rusting.

	B [mm]	C [mm]	d max [mm]	E [mm]	L [mm]	ΔΔ [g]
187A.16VE	21	34	1,8	9,5	165	195
187A.18VE	23	36	2,0	10,0	185	225



FLAT-NOSE PLIERS

■ 188A.VE - 1,000 Volt insulated flat nose pliers



NF ISO 5745, ISO 5745, DIN ISO 5745, ASME B107.500, NF EN 60900, EN 60900, DIN EN 60900

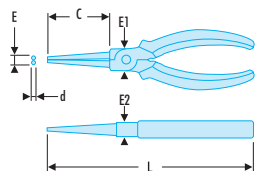
- For your safety, all pliers are tested individually at 10,000 Volt for 10 seconds, at the end of the manufacturing cycle.
- Narrow flat shaped and finely serrated nose for a firm grip and accessibility
- High durability carbon alloy steel.
- Bi-Material ergonomic grips resistant to chemical agents featuring:
 - Return spring
 - Tether ready (Tether point adds 10mm to nominal length)
- Varnish finish to help prevent rusting.



	B [mm]	E [mm]	E1 [mm]	E2 [mm]	L [mm]	L1 [mm]	ΔΔ [g]
188A.16VE	46	4	18	9	168	6,5	140
188A.20VE	75	4	18	9	200	6,5	200

ROUND NOSE PLIERS

■ 1,000 Volt insulated round nose pliers



NF ISO 5745, ISO 5745, DIN ISO 5745, ASME B107.500, NF EN 60900, EN 60900, DIN EN 60900

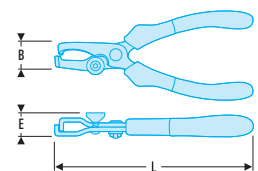
- For your safety, all pliers are tested individually at 10,000 Volt for 10 seconds, at the end of the manufacturing cycle.
- For shaping loops, bends or rings.
- Finely serrated jaws for a positive grip.
- Diameter of each nose at the end: 2 mm.
- High durability carbon alloy steel.
- Bi-Material ergonomic grips resistant to chemical agents featuring:
 - Return spring
 - Tether ready tether point (Tether point adds 10mm to nominal length)
- Varnish finish to help prevent rusting



	C [mm]	d [mm]	E [mm]	E1 [mm]	E2 [mm]	L [mm]	ΔΔ [g]
189A.17VE	41	2	4	18	9	170	135

STANDARD WIRE STRIPPERS

■ 1,000 Volt insulated strippers



NF EN 60900, EN 60900, DIN EN 60900

- For your safety, all pliers are tested individually at 10,000 Volt for 10 seconds, at the end of the manufacturing cycle.
- For single and multi-core wires 0.5 to 6 mm².
- Adjustment screw with lock nut.
- Metal return spring
- High durability Carbon alloy steel.
- Bi-Material ergonomic grips resistant to chemical agents featuring:
 - Tether ready point (Tether point adds 10mm to nominal length)
- Varnish finish to help prevent rusting.



	B [mm]	E [mm]	L [mm]	ΔΔ [g]
194A.17VE	17	8,5	170	185

MULTIGRIP PLIERS 180.VE - RIVETED PIVOT



Find the 180.VE pliers p. 952

MULTIGRIP PLIERS



Power and precision

POWERFUL

- The closed position of the ergonomic comfort grip handles increases the tightening power.



STURDY

- Accurate and strong thanks to its rack and offset pin.



SLIM-LINE NOSE

- With self-gripping teeth.



2 finishes available



CPE version:

- Chrome-finished.
- Bi-material ergonomic grips.



G version:

- Varnished.
- Ergonomic grips.



181EF version:

- Long nose



LOCKING MULTIGRIP PLIERS

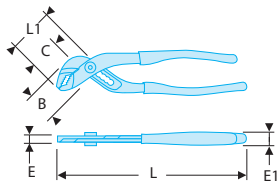
181A - Locking twin slip-joint multigrip pliers



181A.25CPE



181A.18G



NF ISO 8976, ISO 8976, DIN ISO 8976

- Fast, precise push-button adjustment with safety lock.
- 12-position notches.
- The closed position of the ergonomic comfort grip handles increases the tightening power.
- High torsional strength.
- Slim-profile self-gripping nose.
- 62 HRC high-frequency treated jaws.
- Finish:
 - Chrome, bi-material ergonomic grips: 181A.CPE.
 - Varnish finish, mono-material grips: 181A.G.

ED	B [mm]	C [mm]	E [mm]	E1 [mm]	L [mm]	L1 [mm]	Capacity Nuts [mm]	Capacity Maxi Tube [mm]	ΔΔ [g]
181A.18CPE	22	24	7,5	20,0	185	48	36	36	230
181A.25CPE	28	28	7,5	22,5	245	54	41	42	360
181A.18G	22	24	7,5	20,0	185	48	36	36	225
181A.25G	28	28	7,5	19,0	245	54	41	42	350
181A.30G	35	33	9,0	22,5	300	73	46	49	680

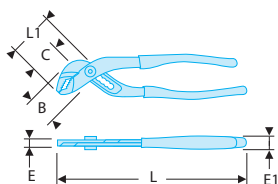
181EF- Locking twin slip-joint multigrip pliers



181EF.25CPE



181EF.25G



NF ISO 8976, ISO 8976, DIN ISO 8976

- Long slim nose for improved reach in confined spaces.
- Fast, precise push-button adjustment with safety lock.
- 12-position notches.
- The closed position of the ergonomic comfort grip handles increases the tightening power.
- High torsional strength.
- Slim-profile self-gripping nose.
- 62 HRC high-frequency treated jaws.
- Packaging:
 - Chromed, bi-material ergonomic grips: 181EF.25CPE.
 - Varnish finish, PVC grips: 181EF.25G.

ED	B [mm]	C [mm]	E [mm]	E1 [mm]	L [mm]	L1 [mm]	Capacity Nuts [mm]	Capacity Maxi Tube [mm]	ΔΔ [g]
181EF.25CPE	25	37,5	7,5	22,5	256	63	41	42	350
181EF.25G	25	37,5	7,5	19,0	256	63	41	42	340

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.



Safety

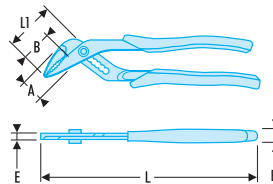


- Finger clearance.
- Insulated VE model for working on or near live components up to 1,000V AC.
- To European standard EN60900.

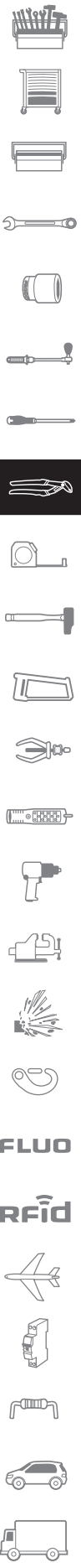
180 - High-performance multigrip pliers

NF ISO 8976, ISO 8976, DIN ISO 8976

- Capacity: 44 mm.
- Ideal for confined spaces: long reach thin noses.
- Double heat-treated tips: high wear resistance, hardness 60/62 HRc.
- 3 options:
 - 180.CPE: Chrome finish, ergonomic grips.
 - 180: Chrome finish.
 - 180A.VE: Varnish finish, 1,000V insulated grips designed for electrical safety to EN 60 900 and qualified for working on or near live components.



Model	A [mm]	B [mm]	C [mm]	E [mm]	E1 [mm]	L [mm]	L1 [mm]	ΔΔ [g]
180	30	30	35	8	14	250	58	320
180.CPE	30	30	35	8	22	250	58	360
180.VE	30	30	35	8	22	250	58	360



LOCKING MULTIGRIP PLIERS

SLIP-JOINT MULTIGRIP PLIERS

Self-tightening pliers



- Teeth self-gripping on pipes.
- Tightens and loosens nuts without damage.
- Capacity: 40 mm. (170A.25)
- Safe: finger protection.
- Riveted pivot.



170A - Standard multigrip pliers



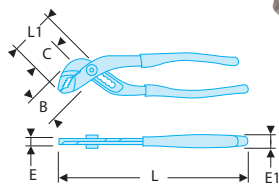
170A.30



170A.25



170A.18



NF ISO 8976, ISO 8976, DIN ISO 8976, ASME B107.500

- Ergonomic handle for comfortable use.
- Self-gripping teeth.
- Antipinch finger protection.
- 8 positions (6 for the 170A.18).
- Smooth rack and pinion system reduces the risk of jamming
- PVC grips.

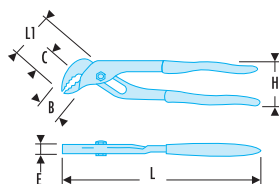
	B [mm]	C [mm]	E [mm]	E1 [mm]	H [mm]	L [mm]	L1 [mm]	Capacity Nuts [mm]	Capacity Maxi Tube [mm]	ΔΔ [g]
170A.18	27	24	8	14	53	180	43	30	30	220
170A.25	34	34	8	17	58	250	54	40	44	330
170A.30	34	34	8,6	17	74	310	75	55	55	650

484 - Twin slip-joint multigrip pliers



NF ISO 8976, ISO 8976, DIN ISO 8976, ASME B107.500

- Inter-slotted jaws distribute load either side of central pin.
- 2 heavy-gauge slots for optimum safety and durability.
- 7 positions.
- Capacity:
 - 484A: 34 mm.
 - 484A.30: 43 mm.
- Finish: satin surface.



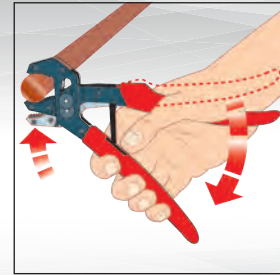
	A [mm]	B [mm]	C [mm]	E [mm]	H [mm]	L [mm]	L1 [mm]	ΔΔ [g]
484A	33	33	38	7,0	50	240	60	345
484A.30	38	38	40	9,5	52	300	66	560

AUTOMATIC MULTIGRIP PLIERS

SELF-ADJUSTING MULTIGRIP PLIERS

Fast adjustment

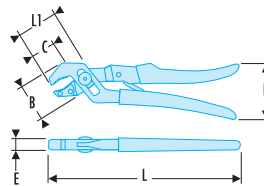
- Instant automatic setting with one hand while clamping.



485 - Automatic multigrip pliers



- Instant automatic setting with one hand while clamping.
- Capacity:
 - 485.17: diameter 28 mm, 6-point 23 mm.
 - 485.23: diameter 45 mm, 6-point 38 mm.
- Finish: burnished, PVC grip.



	A [mm]	B [mm]	C [mm]	E [mm]	H [mm]	L [mm]	L1 [mm]	ΔΔ [g]
485.17	28	28	23	7	42	170	42	150
485.23	40	40	30	10	70	230	57	380

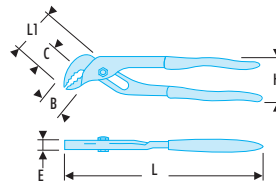
NOTCH-JOINT MULTIGRIP PLIERS

"Extra-wide capacity" straight-jaw pliers



NF ISO 8976, ISO 8976, DIN ISO 8976, ASME B107.500

- Straight serrated jaw.
- Notch joint.
- 11 positions.
- Capacity: 105 mm.
- Finish: chrome finish, PVC grip.



	B [mm]	C [mm]	E [mm]	H [mm]	L [mm]	L1 [mm]	ΔΔ [kg]
481.40	56	50	14	102	412	90	1.1



FLUO

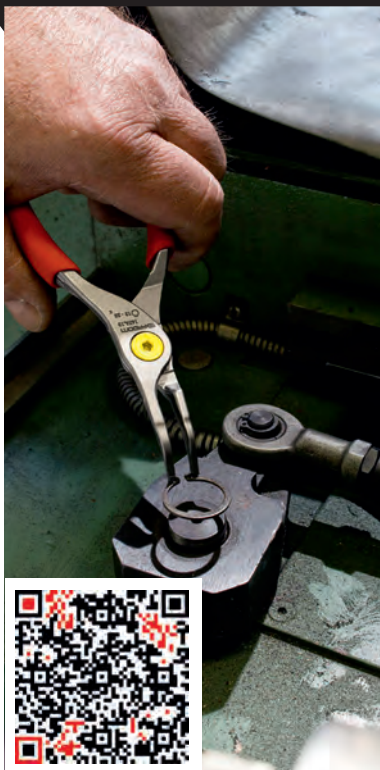
RFid



INSIDE CIRCLIPS® PLIERS

FACOM CIRCLIPS® PLIERS

Packed with features!

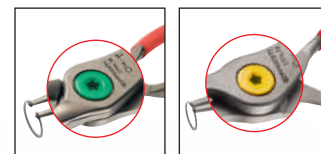


Performance and safety

- Piano wire tips:
 - Resistant to deformation.
 - Reinforced to limit risks of breakage.
- Integral spring: optimum flexibility of use:
 - Spring protection.
 - Limits risks of spring loss and/or ejection.
- Tips extended and angled at 10°:
 - Better circlip holding.
 - Reduces risks of circlips warping and falling.

Slim-line and accessibility

- Slim-line head and nose for easy access even in crowded spaces.



Opening

Closing

Comfort and ergonomics

- Grips in anti-slip granite PVC.
- Reduces risks of slipping or falling during use.
- Improves ergonomics during intensive operations.
- Easy to clean.

Productivity

- Colour code: opening / closing.
- Improved productivity thanks to faster identification of the pliers in the tool box.

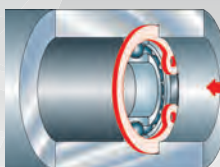
INSIDE CIRCLIPS® PLIERS

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

SAFETY



Eye protection is recommended.



179A - Straight nose inside Circlips® pliers



NF E 73-130, DIN 5256, ASME B107.500

- For Circlips® 8 --> 200 mm.
- Piano wire tips: high distortion resistance.
- Long 10° angled tips for optimum circlip holding.
- Identification colour code: saves time.
- Grips in anti-slip granite PVC.



Ref	d [mm]	d mini - maxi [mm]	L [mm]	ΔΔ [g]
179A.9	0,9	8 - 13	140	115
179A.13	1,3	12 - 25	140	115
179A.18	1,8	19 - 60	185	215
179A.23	2,2	40 - 100	215	300
179A.32	3,2	85 - 200	310	565

169A - 45° angled nose inside Circlips® pliers

NF E 73-130, ASME B107.500

- For Circlips® 8 --> 100 mm
- Piano wire tips: high distortion resistance.
- Long 10° angled tips for optimum circlip holding.
- Identification colour code: saves time.
- Grips in anti-slip granite PVC.

Ø	d [mm]	d mini - maxi [mm]	L [mm]	ΔΔ [g]
169A.9	0,9	8 - 13	140	115
169A.13	1,3	12 - 25	140	115
169A.18	1,8	19 - 60	180	215
169A.23	2,2	40 - 100	215	300

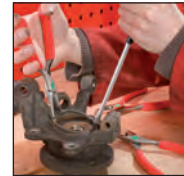


199A - 90° angled nose inside Circlips® pliers

NF E 73-130, DIN 5256, ASME B107.500

- For Circlips® 8 --> 200 mm.
- Piano wire tips: high distortion resistance.
- Long 10° angled tips for optimum circlip holding.
- Identification colour code: saves time.
- Grips in anti-slip granite PVC.

Ø	d [mm]	d mini - maxi [mm]	L [mm]	ΔΔ [g]
199A.9	0,9	8 - 13	130	115
199A.13	1,3	12 - 25	130	115
199A.18	1,8	19 - 60	170	215
199A.23	2,2	40 - 100	205	300
199A.32	3,2	85 - 200	290	565



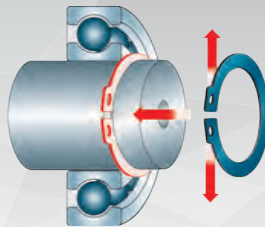
OUTSIDE CIRCLIPS® PLIERS

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

SAFETY



Eye protection is recommended.



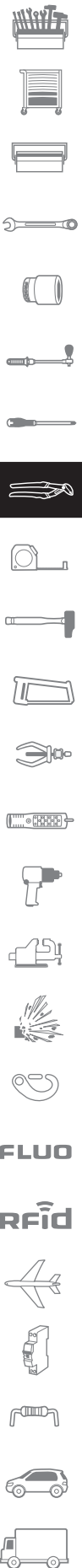
OUTSIDE CIRCLIPS® PLIERS

177A - Straight nose outside Circlips® pliers

NF E 73-130, DIN 5254, ASME B107.500

- For Circlips® 3 --> 200 mm.
- Piano wire tips: high distortion resistance.
- Long 10° angled tips for optimum circlip holding.
- Identification colour code: saves time.
- Grips in anti-slip granite PVC.

Ø	d [mm]	d mini - maxi [mm]	L [mm]	ΔΔ [g]
177A.9	0,9	3 - 10	150	105
177A.13	1,3	10 - 25	150	105
177A.18	1,8	19 - 60	180	175
177A.23	2,2	40 - 100	215	280
177A.32	3,2	85 - 200	310	600



OUTSIDE CIRCLIP® PLIERS

167A - 45° angled nose outside Circlips® pliers



NF E 73-130ASME B107.500

- For Circlips® 3 --> 100 mm.
- Piano wire tips: high distortion resistance.
- Long 10° angled tips for optimum circlip holding.
- Identification colour code: saves time.
- Grips in anti-slip granite PVC.



🔗	d [mm]	d mini - maxi [mm]	L [mm]	ΔΔ [g]
167A.9	0.9	3 - 10	145	105
167A.13	1.3	10 - 25	145	105
167A.18	1.8	19 - 60	175	175
167A.23	2.2	40 - 100	215	280

197A - 90° angled nose outside Circlips® pliers



NF E 73-130, DIN 5254, ASME B107.500

- For Circlips® 3 --> 200 mm.
- Piano wire tips: high distortion resistance.
- Long 10° angled tips for optimum circlip holding.
- Identification colour code: saves time.
- Grips in anti-slip granite PVC.



🔗	d [mm]	d mini - maxi [mm]	L [mm]	ΔΔ [g]
197A.9	0,9	3 - 10	140	105
197A.13	1,3	10 - 25	140	105
197A.18	1,8	19 - 60	170	175
197A.23	2,2	40 - 100	200	280
197A.32	3,2	85 - 200	290	600

Set of 4 straight and 90° angled nose Circlips® pliers - 18 to 60 mm



- Including:
- 177A.18: Straight nose outside Circlip® pliers for Circlips® 19 --> 60 mm.
- 197A.18: 90° angled nose outside Circlip® pliers for Circlips® 19 --> 60mm.
- 179A.18: Straight nose inside Circlip® pliers for Circlips® 19 --> 60 mm.
- 199A.18: 90° angled nose inside Circlip® pliers for Circlips® 19 --> 60 mm.



🔗	ΔΔ [g]
PCJ4	860

Set of 4 straight nose Circlips® pliers - 10 to 60 mm



- Including:
- 177A.13: Straight nose outside Circlip® pliers for Circlips® 10 --> 25 mm.
- 177A.18: Straight nose outside Circlip® pliers for Circlips® 19 --> 60 mm.
- 179A.13: Straight nose inside Circlip® pliers for Circlips® 12 --> 25 mm.
- 179A.18: Straight nose inside Circlip® pliers for Circlips® 19 --> 60 mm.



🔗	ΔΔ [g]
PCSNJ4	740

HIGH-PERFORMANCE PLIERS

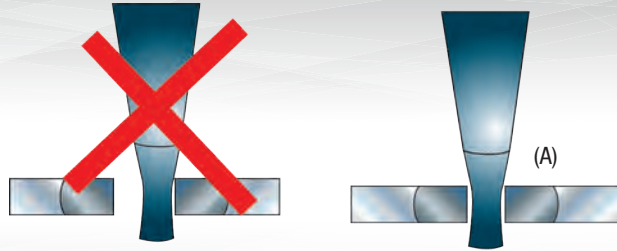
CHOOSING THE RIGHT CIRCLIPS® PLIERS

- 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®.



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



ASME B107.500

- Interchangeable tip.
- Rack holds circlips® compressed for easy fitting and removal (with release trigger).
- Finish: chrome finish, red PVC grips.



Ref	d [mm]	d mini - maxi [mm]	L maxi [mm]	L [mm]	Tips	ΔΔ [g]
499.32	3,2	85 - 200	310	310	45°	480
479.32	3,2	85 - 200	310	310	Straight	480

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



ASME B107.500

- Interchangeable tip.
- Rack holds circlips® compressed for easy fitting and removal (with release trigger).
- Finish: chrome finish, red PVC grips.



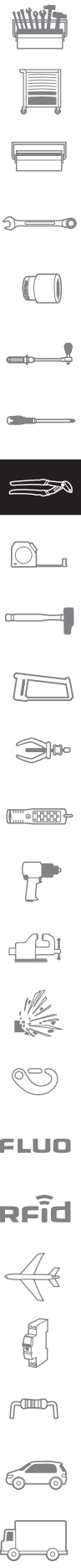
Ref	d [mm]	d mini - maxi [mm]	L [mm]	Tips	ΔΔ [g]
477.32	3,2	85 - 200	310	45°	480
497.32	3,2	85 - 200	310	Straight	480

490.SE - Spare tips for pliers 477 to 499



- Each reference includes 2 tips and 2 screws.

Ref	d [mm]	d mini - maxi [mm]	Tips
490.SE28-1	2,8	65 - 120	Straight
490.SE32-1	3,2	85 - 200	Straight
490.SE38-1	3,8	120 - 200	45°
490.SE28-2	2,8	65 - 120	45°
490.SE32-2	3,2	85 - 200	45°
490.SE38-2	3,8	120 - 200	45°

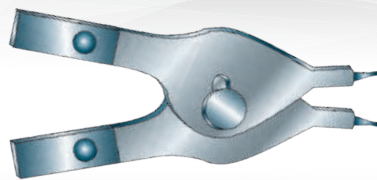


REVERSIBLE PLIERS

REVERSIBLE CIRCLIPS® PLIERS

Reversible Circlips® pliers 475A

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



Position 1 for outside Circlips®.



Position 2 for inside Circlips®.

475A - Reversible inside and outside Circlips® pliers



- Single tool for both inside and outside Circlips®.
- Finish: burnished, PVC grip.



	d [mm]	d mini - maxi [mm]	L [mm]	ΔΔ [g]
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



- Including:
 - 475A.15: for inside Circlips®, diam. 10 --> 30 mm and outside, diam. 10 --> 18 mm.
 - 475A.20: for inside Circlips®, diam. 20 --> 48 mm and outside, diam. 19 --> 45 mm.
- Supplied in a case, dim. (L. x W. x H.): 245 x 135 x 35 mm.



	ΔΔ [g]
475A.J1	430

REMOVABLE TIP PLIERS

Inside and outside Circlips® pliers



- Interchangeable tips for:
 - diam. 8 --> 63 mm, for inside Circlips®.
 - diam. 3 --> 63 mm, for outside Circlips®.
- Including:
 - 469.PA: Inside Circlips® pliers.
 - 467.PA: Outside Circlips® pliers.
 - 82H.2.5: Key.
- Set of 18 removable tips.
- Supplied in a plastic case.



	ΔΔ [g]
470	1500

■ Inside Circlips® pliers

- Interchangeable tips for a capacity of diam. 8 --> 63 mm.
- Thumbscrew position setting.
- Opening return spring.
- Finish: chrome finish, red PVC grips.
- Supplied in a case with key and set of bits E1 - E2 - E3 - E5 - E6 - E8 - E9.

	$\Delta\Delta$ [g]
469	160



■ Outside Circlips® pliers

NF E 73-130, DIN 5254, ASME B107.500


- Interchangeable tips for a capacity of diam. 3 --> 63 mm.
- Thumbscrew position setting.
- Opening return spring.
- Finish: chrome finish, red PVC grips.
- Supplied in a case with key and set of bits E1 - E2 - E3 - E5 - E6 - E8 - E9.

	$\Delta\Delta$ [g]
467	160



■ 470.E - Spare tips for Circlips® pliers 467 and 469

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

	d [mm]	d mini - maxi [mm]	Tips
470.E1	0,9	8 --> 12 - 3 --> 10	Straight
470.E2	0,9	8 --> 12 - 3 --> 10	45°
470.E3	0,9	8 --> 12 - 3 --> 10	90°
470.E5	1,3	12 --> 25 - 10 --> 25	Straight
470.E6	1,3	12 --> 25 - 10 --> 25	45°
470.E7	1,3	12 --> 25 - 10 --> 25	90°
470.E8	1,8	19 --> 63 - 19 --> 63	Straight
470.E9	1,8	19 --> 63 - 19 --> 63	45°
470.E10	1,8	19 --> 63 - 19 --> 63	90°



■ Spare tips

- For products Ref: 467 - 469 - 470.

	$\Delta\Delta$ [g]
467.01AJ2	5



SNAP-RING PLIERS

■ 411A - Outside snap-ring pliers

ASME B107.500

- Special tips for snap-rings and spring clips.
- Finish: chrome finish, PVC grip.

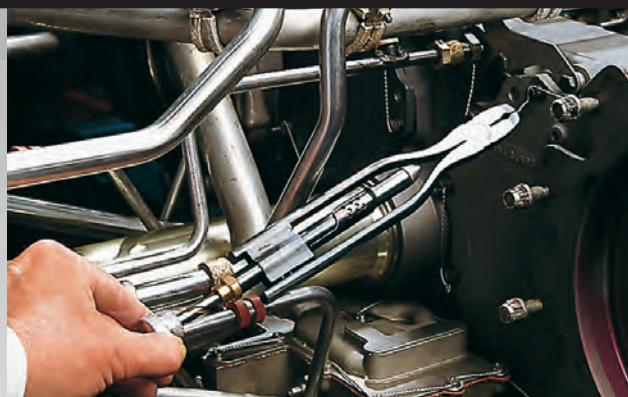
	d mini - maxi [mm]	L [mm]	$\Delta\Delta$ [g]
411A.17	15 - 62	150	190
411A.20	60 - 160	190	275



LOCKING-WIRE PLIERS

FACOM LOCKING-WIRE PLIERS

Fast twist in lock-wire securing assemblies subject to vibration



1 Both wire ends gripped in nose. Lock the pliers.

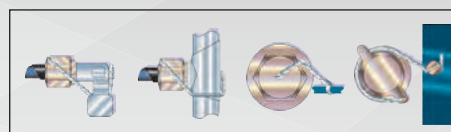


2 Pull to twist lock-wire. Push back for more travel if required.



3 Finish job with side cutter.

- 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.



Automatic model

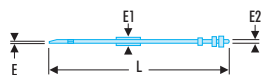
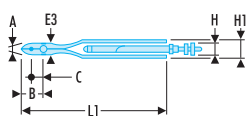
- Automatic-reset model for simplicity and time-saving.

445 - Short locking-wire pliers 8"



ASME B107.500

- «automatic» model.
- Side wire-cutter: stainless steel diameter 1 mm.
- 2.5 turns: 95 mm length.



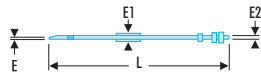
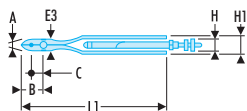
	A [mm]	B [mm]	C [mm]	E [mm]	E1 [mm]	E2 [mm]	E3 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	ΔΔ [g]
445.8R	3	20	7	2,5	15	10,5	15	22	37	215	170	245

445 - Locking-wire pliers 10"



ASME B107.500

- «automatic» model.
- Side wire-cutter: stainless steel diameter 1 mm.
- 3 turns: 125 mm length.



	A [mm]	B [mm]	C [mm]	E [mm]	E1 [mm]	E2 [mm]	E3 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	ΔΔ [g]
445.10R	3	30	11	2,5	15,5	11,5	19	25	40	360	230	400

LOCK GRIPS

**Simplicity -
safety - strength**
**FACOM reinvents
the lock grip**



**Parallel jaws
with teeth over entire depth**

- The part does not slip. No movement whatever the type of part, for high strength tightening.

Forged reinforced jaws

- Powerful tightening. Excellent dynamic properties.
- Machined groove in upper jaw holds small round sections.

5-Position slip joint

- High capacity and easy adjustment.

**Patented innovative
slip joint opening
system**

- Immediate opening for improved time gain.
- Very fast adjustment on any type of part.

**Patented
release trigger**

- Safety: single-handed smooth release, no accidental opening.

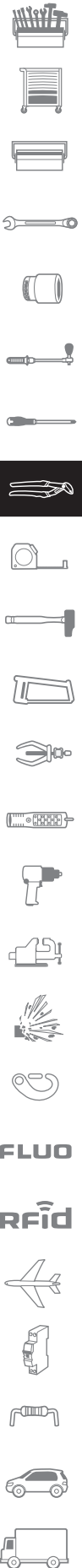


Ergonomic handles

- Precise and comfortable grip, with or without gloves.

**Safety lock system
compatible**

- Secured fastening when working in high locations.
- FME compatible (Nuclear).

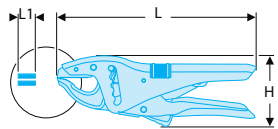


FLUO

RFid

LARGE-CAPACITY LOCK-GRIP PLIERS

Short-nose lock-grip pliers



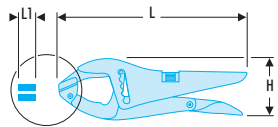
ASME B107.500

- 5 positions slip joint system.
- Unlock trigger allowing smooth & safe release.
- Easy to use & secure. Usable with 1 hand.
- Nose width 17 mm.
- Machined groove in upper to grip cylindrical sections, bolt & screw shafts, nails.
- Chromed finish.



	H [mm]	L [mm]	L1 [mm]	ΔΔ [g]
500A	81	230	17	740

Long-nose lock-grip pliers



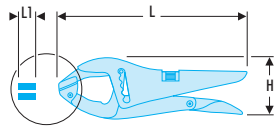
ASME B107.500

- 5 positions slip joint system.
- Unlock trigger allowing smooth & safe release.
- Easy to use & secure. Usable with 1 hand.
- Nose width 17 mm.
- Machined groove in upper to grip cylindrical sections, bolt & screw shafts, nails.
- Chromed finish.



	H [mm]	L [mm]	L1 [mm]	ΔΔ [g]
501A	81	250	17	770

Hinged long-nose lock-grip pliers



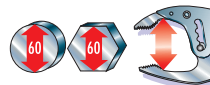
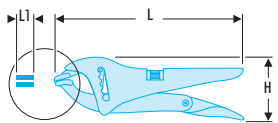
ASME B107.500

- 5 positions slip joint system.
- Unlock trigger allowing smooth & safe release.
- Easy to use & secure. Usable with 1 hand.
- Nose width 17 mm.
- Machined groove in upper to grip cylindrical sections, bolt & screw shafts, nails.
- Chromed finish.



	H [mm]	L [mm]	L1 [mm]	ΔΔ [g]
506A	81	250	17	790

Single-setting lock-grip pliers



ASME B107.500

- Unlock trigger allowing smooth & safe release.
- Easy to use & secure. Usable with 1 hand.
- Machined groove in upper to grip cylindrical sections, bolt & screw shafts, nails.
- Chromed finish.

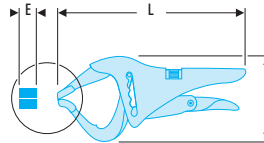


	H [mm]	L [mm]	L1 [mm]	ΔΔ [g]
501AMP	81	248	17	758

Large-capacity lock-grip pliers

ASME B107.500

- 5 positions slip joint system.
- Unlock trigger allowing smooth & safe release.
- Easy to use & secure. Usable with 1 hand.
- Capacity up to 135 mm.
- Nose width 17 mm.
- Machined groove in upper to grip cylindrical sections, bolt & screw shafts, nails.
- Chromed finish.



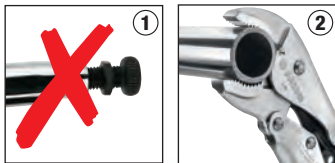
	H [mm]	L [mm]	L1 [mm]	ΔΔ [g]
505A	85	274	17	814

SERIES 580 AUTOMATIC LOCK-GRIP PLIERS

Ideal for saving time and for production work

No adjustment!

- 1 - Just adjust the pressure no readjustment required.
- 2 - The tool automatically adjusts from thick parts to thin and from thin parts to thick.



Patented automatic closing mechanism.

- 3 - Automatically adjusts the jaws to the component, regardless of size and with the same pressure.



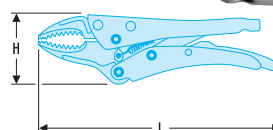
Pressure adjustment



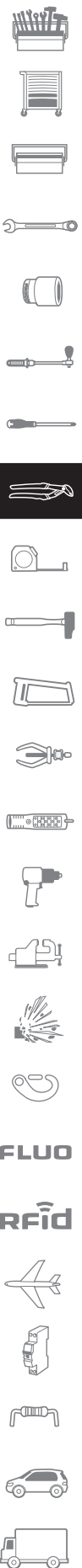
580 - Multi-purpose angle-nose lock-grip pliers

ASME B107.500

- Suitable for industrial and automotive production and maintenance applications.
- Automatically adjusts the jaws to the component, regardless of size and with the same pressure.
- Forged in Chrome Molybdenum steel: with treated jaws for longer working life.
- Non-slip chequered handle.
- One-hand unlocking by internal opening lever.
- Finish: chromed, burnished mechanism (patented).



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

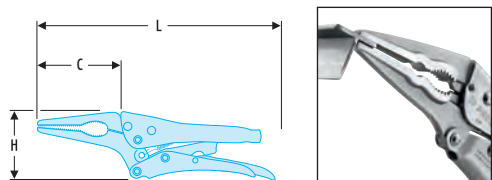


FLUO

Rfid

LARGE-CAPACITY LOCK-GRIP PLIERS

Long-nose automatic lock-grip pliers



ASME B107.500

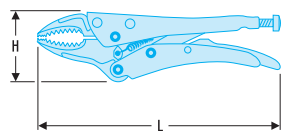
- For holding, placing or removing components where access is difficult.
- Tips designed for holding flat or circular sections.
- Automatically adjusts the jaws to the component, regardless of size and with the same pressure.
- Forged in Chrome Molybdenum steel: with treated jaws for longer working life.
- Non-slip chequered handle.
- One-hand unlocking by internal opening lever.
- Finish: chromed, burnished mechanism (patented).



➤	A [mm]	B [mm]	C [mm]	E [mm]	H [mm]	L [mm]	ΔΔ [g]
582.7	45	61	5,5	61	45	175	256

SINGLE-SETTING LOCK-GRIP PLIERS

513 - Standard curved Jaw lock-grip pliers



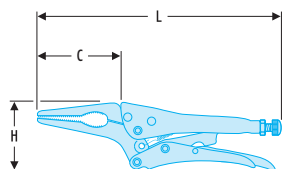
ASME B107.500

- Slim jaws.
- Hand-screw adjustment.
- Finish: black cataphoretic finish.



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

517 - Standard long nose lock-grip pliers



ASME B107.500

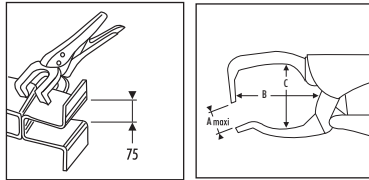
- For reaching and gripping components in confined spaces.
- Hand-screw adjustment.
- Finish: chromed.



➤	A maxi [mm]	C [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

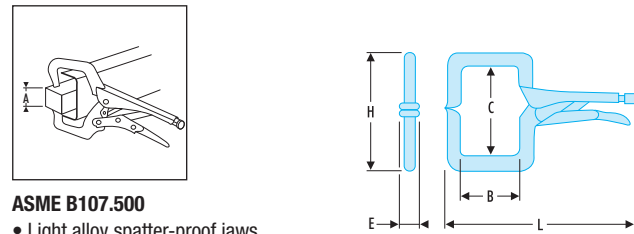


ASME B107.500

- Light alloy spatter-proof jaws.
- Steel body.
- Secure and precise alignment of work pieces.
- Ample clearance for the welding tool.
- Hand-screw adjustment.
- Dimensions: 280 x 82 x 70 mm.
- Finish: chrome.

ASME B107.500	A maxi [mm]	B [mm]	C [mm]	H [mm]	L [mm]	ΔΔ [g]
502A	75	65	50	82	280	735

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

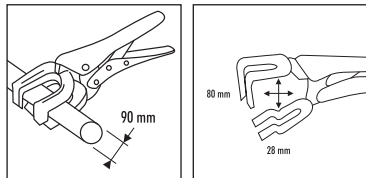


ASME B107.500

- Light alloy spatter-proof jaws.
- Steel body.
- Secure clamp for welding shaped or angled sections, and channels.
- Hand-screw adjustment.
- Finish: chrome.

ASME B107.500	A maxi [mm]	B [mm]	C [mm]	E [mm]	H [mm]	L [mm]	ΔΔ [g]
504A.100	80	65	100	12	147	280	655
504A.180	125	120	180	20	240	350	927

Lock-grip pliers for round sections

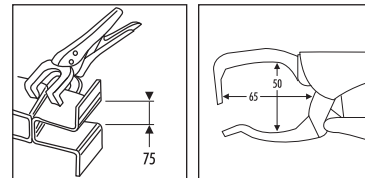


ASME B107.500

- Secure clamping of round sections.
- Pressed-steel jaws and body.
- Hand-screw adjustment.
- Dimensions: 280 x 85 x 68 mm.
- Finish: chrome.

ASME B107.500	A maxi [mm]	B [mm]	C [mm]	H [mm]	L [mm]	ΔΔ [g]
503	90	80	28	85	280	945

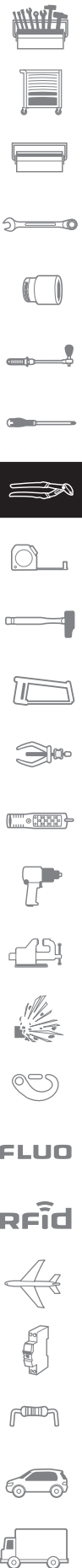
Lock-grip pliers for angle sections



ASME B107.500

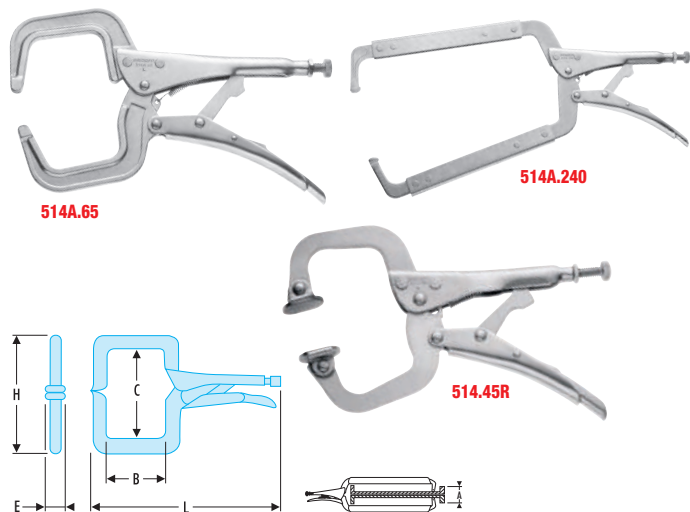
- Secure clamping of angle and channel sections.
- Pressed-steel jaws and body.
- Hand-screw adjustment.
- Dimensions: 280 x 85 x 70 mm.
- Finish: chrome.

ASME B107.500	A maxi [mm]	B [mm]	C [mm]	H [mm]	L [mm]	ΔΔ [g]
512	75	65	50	85	280	953



"METALWORKING" LOCK-GRIP PLIERS

■ Long-reach C-clamp lock-grip pliers



ASME B107.500

- Special forged-steel jaws for secure clamping of angle sections and deep channels
- Pressed-steel body.
- «R» models have hinged shoes at their tips.
- Hand-screw adjustment.
- Finish: chrome.



➤	A maxi [mm]	B [mm]	C [mm]	E [mm]	H [mm]	L [mm]	ΔΔ [g]
514.45R	45	45	60	19	90	175	270
514A.65	70	65	100	12	150	300	905
514A.240	230	240	100	20	165	460	1400
514A.240R	230	240	100	32	165	460	1500
514A.400	370	400	100	20	165	630	1700

BAR CLAMP LOCK-GRIP PLIERS

■ 520A - G-clamp lock-grip pliers



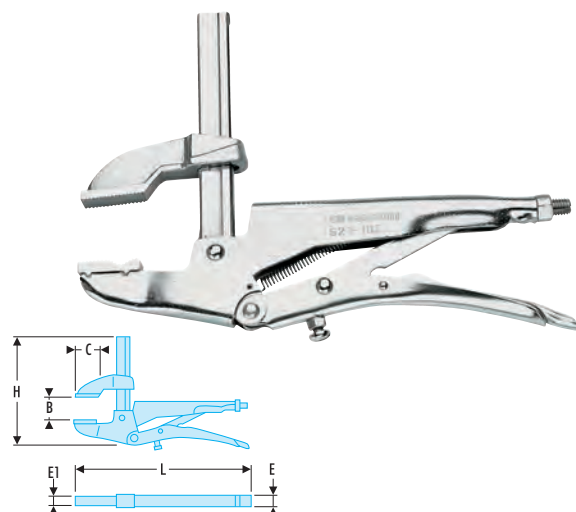
ASME B107.500

- Coppered screw with swivel shoe.
- Fine setting with locknut.
- Finish: chrome.



➤	B [mm]	C [mm]	H [mm]	L [mm]	ΔΔ [kg]
520A.70	70	70	165	280	1.0
520A.100	70	100	196	280	1.1
520A.170	70	170	270	280	1.3

■ 521 - G-clamp pliers with sliding jaw



ASME B107.500

- Clamping force: 4000 N, adjustable.
- Zinc-plated, forged and hardened sliding jaw.
- Case-hardened and chromed teeth.
- Lower jaw angle screw-adjustable through 9°.
- Finish: chrome.



➤	B [mm]	C [mm]	E [mm]	E1 [mm]	H [mm]	L [mm]	ΔΔ [kg]
521.100	100	65	28	15	190	260	1.0
521.150	150	65	28	15	240	260	1.1
521.200	200	65	28	15	290	260	1.2

HEAVY-DUTY 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.



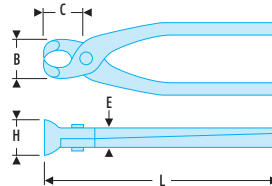
495A - Heavy-duty end nippers

NF ISO 9242, ISO 9242, DIN 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 diameter 4.5 mm on soft wire (300 mm model).
 - Max. on hard wire 160 kg/mm².
- Finish: burnished, polished head.



	B [mm]	C [mm]	E [mm]	H [mm]	L [mm]	ΔΔ [g]
495A.20EL	28	10,0	12	20	200	240
495A.22EL	31	10,5	13	23	220	310
495A.25EL	35	12,0	14	25	250	390
495A.28EL	35	12,0	14	25	280	450
495A.30EL	35	12,0	14	25	300	510



PLASTICS CUTTERS

Special cutters to remove tails and burrs from injection-moulded components.

- HF hardened cutting edges and flush cut for clean result.



SPECIAL PLIERS

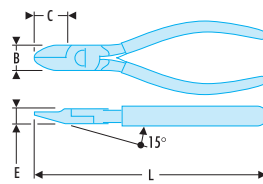
PLASTICS CUTTERS

395 - Diagonal plastics cutters



- Two joint and length sizes.
- Opening return spring.
- Finish: polished burnish, PVC grip.

	B [mm]	C [mm]	d maxi [mm]	E [mm]	L [mm]	ΔΔ [g]
395.14	16	20	6	10	140	115
395.16	18	22	7	11	160	150

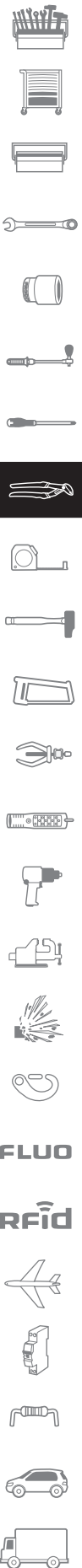
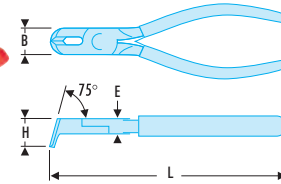


75° plastics cutters



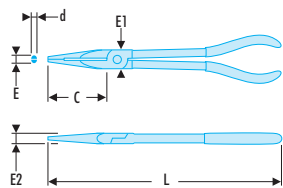
- 75° cutting edges.
- Opening return spring.
- Finish: polished burnish, red PVC grips.

	B [mm]	E [mm]	H [mm]	L [mm]	ΔΔ [g]
396	18	9	24,3	150	145



EXTRA-LONG REACH HALF-ROUND NOSE PLIERS

Double jointed extra long half-round nose pliers

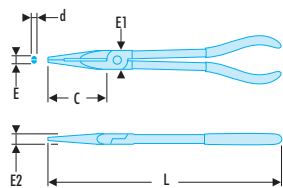


- Length 340 mm.
- Double joint and slim profile, for working in awkward zones, even single-handed.
- Serrated nose for good grip.
- Ergonomic handle for easy grip.
- Polished with plastic sheath finish.



	C [mm]	d [mm]	E [mm]	E1 [mm]	L [mm]	ΔΔ [g]
185.34L	81	6	3	19	340	350

Double jointed extra long half-round nose pliers - 45° angle

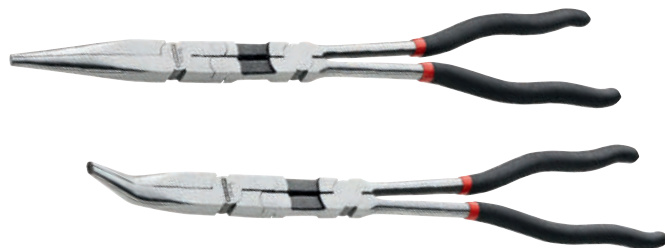


- Length 340 mm.
- 45° angle for better accessibility.
- Double joint and slim profile, for working in awkward zones, even single-handed.
- Serrated nose for good grip.
- Ergonomic handle for easy grip.
- Polished with plastic sheath finish.



	C [mm]	d [mm]	E [mm]	E1 [mm]	L [mm]	ΔΔ [g]
195.34L	77	6	3	19	340	350

Set of 2 double jointed extra long half-round nose pliers

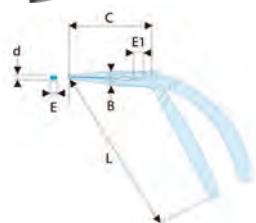


- Double joint and slim profile extra long pliers for working in awkward zones, even single-handed.
- Polished with plastic sheath finish.



	ΔΔ [g]
185.2L	882

Angled combination pliers



- Angled 45° semi-round noses to work in awkward zones. The plier angle provides good visibility on the part and prevents muscle pain in the wrist.
- 3-in-1 combination pliers: tube clamp, grip, cutting.
- Long slim noses for better access.
- Ergonomic handle for easy grip.
- Polished with plastic sheath finish.



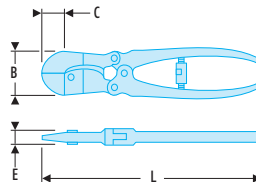
	B [mm]	C [mm]	d [mm]	E [mm]	E1 [mm]	L [mm]	ΔΔ [g]
193.20G	14.7	82.5	3	3	9.9	200	280

LOW-EFFORT CUTTERS

Diagonal cutters

NF ISO 5749, ISO 5749, DIN ISO 5749, ASME B107.500

- "Leveraged" system for increased capacity with minimum cutting effort. piano wire 200 kg/mm², diameter 2.5 mm.
- Finish: red paint finish.



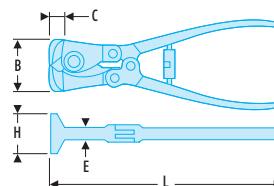
Icon	B [mm]	C [mm]	E [mm]	L [mm]	ΔΔ [g]
	37	22	16	200	515

171.20EL

End-cutters

NF ISO 5748, ISO 5748, DIN ISO 5748, ASME B107.500

- Compound leverage for increased capacity with minimum cutting effort. piano wire 200 kg/mm², diameter 2.5 mm.
- Finish: red paint finish.



Icon	B [mm]	C [mm]	d maxi [mm]	E [mm]	H [mm]	L [mm]	ΔΔ [g]
	48	9	2,5	17	34	210	660

191A.22EL

"CONNECTOR" PLIERS

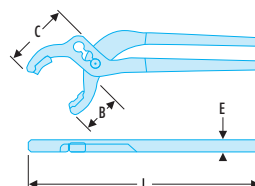
410 - "Connector" pliers

ASME B107.500

- For handling fragile round components, e.g. screwed connector sleeves, tubes, lamps or wire looms, etc.
- Wide capacity from 3-position slip joint: max. diameter 55 mm.
- Replaceable plastic jaws available in 2 jaw hardness options:
 - 410: hard jaws - 70 shore B.
 - 410.S: soft jaws - 55 shore B.
- Finish: polished chrome, red PVC grips.

Spare jaws:

- 410.1: Set of 2 jaws with screws (hard).
- 410.S1: Set of 2 jaws with screws (soft).



Icon	B [mm]	C [mm]	E [mm]	L [mm]	ΔΔ [g]
	68	47	10	230	320
	68	47	10	230	320

410
410.S



PLIERS SETS

Set of 3 CPE pliers



- Including:
 - Locking multigrip pliers 181A.25CPE.
 - Diagonal cutters 192A.16CPE.
 - Half-round nose pliers 185A.20CPE.
- Supplied in a cardboard box.



	$\Delta\Delta$ [g]
CPE.A3	790

Set of 4 CPE pliers



- Including:
 - Locking multigrip pliers 181A.25CPE.
 - Diagonal cutters 192A.16CPE.
 - Half-round nose pliers 185A.20CPE.
 - Combination pliers 187A.18CPE.
- Supplied in a cardboard box.



	$\Delta\Delta$ [g]
CPE.A4	1.02

■ Set of 3 1,000 Volt pliers

- 1,000V insulated tools to EN 60900900.
- Including:
 - Multigrip pliers 180.VE.
 - Diagonal cutters 391A.16VE.
 - Angled half-round nose pliers 195A.20VE.
- Supplied in a cardboard box.



	$\Delta\Delta$ [g]
VE.A3	790

■ "Mechanics" Heavy duty set of 3 pliers

- Comprising 3 tools:
 - Combination pliers 187A.20G.
 - Diagonal cutting pliers 192A.18G.
 - Half-round nose pliers 185A.20G.
- Supplied in a cardboard box.



	$\Delta\Delta$ [g]
GJPA3	750

■ "Mechanics" Standard set of 4 pliers

- Comprising 3 tools:
 - Diagonal cutting pliers 192A.16G.
 - Half-round nose pliers 185A.20G.
 - Half-round nose pliers 195A.20G.
 - Slip-joint multi-grip pliers 170A.25.
- Supplied in a cardboard box.



	$\Delta\Delta$ [g]
GJPA4	950



MODULES

Module of 3 "maintenance" pliers



- Including:
 - Half-round nose pliers 185A.20CPE.
 - Combination pliers 187A.18CPE.
 - Diagonal cutters 192A.16CPE.

MOD.CPEAO	H [mm]	L [mm]	Tray	ΔΔ [kg]
MOD.CPEAO	40	418	PL.MODCPEAO	0.942

Module of 5 pliers



- Including:
 - Diagonal cutters 192A.16CPE.
 - Half-round nose pliers 185A.20CPE.
 - Half-round nose pliers 195A.20CPE.
 - Locking twin slip-joint multigrip pliers 181A.25CPE.
 - Large-capacity lock-grip pliers 501A.

MOD.CPEA5	H [mm]	L [mm]	Tray	ΔΔ [g]
MOD.CPEA5	40	418	PL.MODCPEA5	2060

Module of 3 EN 60900-compliant 1,000 Volt VE pliers



- 1,000V insulated tools to EN 60900.
- Including:
 - Slip-joint locking multigrip pliers 180.VE.
 - Diagonal cutters 391A.16VE.
 - Standard wire strippers 194A.17VE.

MOD.VEAO	H [mm]	L [mm]	Tray	ΔΔ [kg]
MOD.VEAO	40	418	PL.MODVEAO	0.951

2-piece adjustable plier module



- Including:
 - Multigrip pliers 180.CPE.
 - Multigrip lock-grip pliers 501AMP.

MOD.PR4	H [mm]	L [mm]	Tray	ΔΔ [kg]
MOD.PR4	40	418	PL.330	1.2

Module of 2 adjustable pliers



- Including:
 - Multigrip pliers 180.CPE.
 - Short-nose lock-grip pliers 500A.

MOD.PR8	H [mm]	L [mm]	Tray	ΔΔ [kg]
MOD.PR8	40	418	PL.330	2.010

Module of 2 adjustable pliers



- Including:
 - Locking multigrip pliers 181A.25CPE.
 - Long-nose lock-grip pliers 501A.

MOD.PR9	H [mm]	L [mm]	Tray	ΔΔ [kg]
MOD.PR9	40	418	PL.330	0.504

Module of 2 adjustable pliers



- Including:
 - Locking multigrip pliers 181A.25CPE.
 - Multigrip lock-grip pliers 501AMP.

Icon	H [mm]	L [mm]	Tray	ΔΔ [kg]
MOD.PR11	40	418	PL.330	1.2

Module of 2 adjustable pliers



- Including:
 - Locking multigrip pliers 181A.25CPE.
 - Angled nose lock-grip pliers 580.10.

Icon	H [mm]	L [mm]	Tray	ΔΔ [kg]
MOD.PR12	40	418	PL.330	1.2

Module of 4 Circlips® pliers



- Including:
 - Straight external pliers 177A.13 & 177A.18.
 - Straight internal pliers 179A.13 & 179A.18.

Icon	H [mm]	L [mm]	Tray	ΔΔ [kg]
MOD.PCSN	40	418	PL.683	0.842

Module of 4 Circlips® pliers



- Including:
 - Straight external pliers 177A.18.
 - 90° external pliers 197A.18.
 - Straight internal pliers 179A.18
 - 90° internal pliers 199A.18.

Icon	H [mm]	L [mm]	Tray	ΔΔ [kg]
MOD.PC	40	418	PL.332A	0.842



MODULES

■ Foam module of 3 pliers



- Including:
 - Diagonal cutters 192A.16CPE.
 - Half-round nose pliers 185A.20CPE.
 - Combination pliers 187A.18CPE.



	Tray	ΔΔ [g]
 MODM.CPEAO	PM.MODCPEAO	975

■ Foam module of 4 pliers



- Including:
 - Diagonal cutters 192A.16CPE.
 - Half-round nose pliers 185A.20CPE.
 - Locking twin slip-joint multigrip pliers 181A.25CPE.
 - Large-capacity lock-grip pliers 501A.



	Tray	ΔΔ [g]
 MODM.CPEA1	PM.MODCPEA1	1580

■ Foam module of 4 pliers & Shears



- Including:
 - Diagonal cutters 192A.16CPE.
 - Half-round nose pliers 185A.20CPE.
 - Locking twin slip-joint multigrip pliers 181A.25CPE.
 - Multi-purpose shears 980C.



	Tray	ΔΔ [g]
 MODM.CPEA2	PM.MODCPEA2	974

■ Foam module of 3 pliers

- Including:
 - Wire Stripping Plier 194A.17CPE.
 - Locking twin slip-joint multigrip pliers 181A.25CPE.
 - Large-capacity lock-grip pliers 500A.



	Tray	ΔΔ [g]
MODM.CPEA3	PM.MODCPEA3	1280

■ Foam module of 2 lock grip pliers

- Including:
 - Large-capacity lock-grip pliers 501AMP.
 - Large-capacity lock-grip pliers 501A.



	Tray	ΔΔ [g]
MODM.501A	PM.MOD501A	1920

■ Foam module of 4 Circlips® pliers

- Including:
 - Straight external pliers 177A.13 & 177A.18.
 - Straight internal pliers 179A.13 & 179A.18.



	Tray	ΔΔ [g]
MODM.PCSN	PM.MODPCSN	946

