



ENGINEERS MULTIGRIP PLIERS



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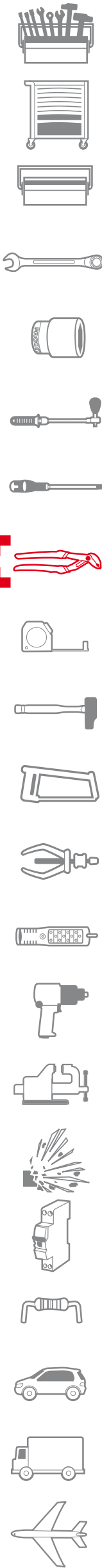
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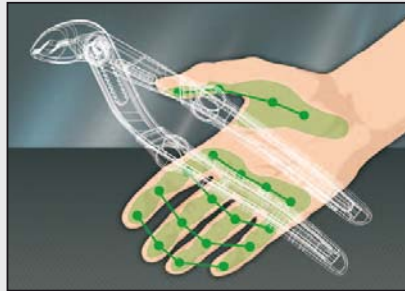
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MULTIGRIP PLIERS

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.

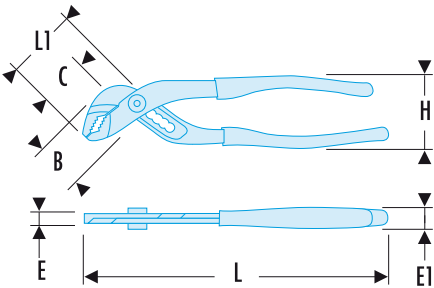


- **G version:**- Varnished.- Ergonomic grips.



181EF version: long nose

181A - Locking twin slip-joint multigrip pliers

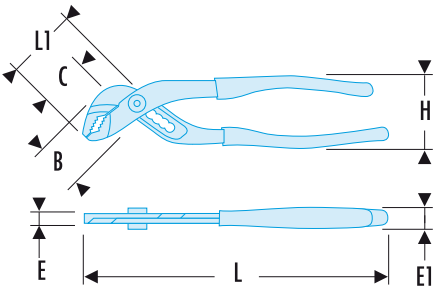


NF ISO 8976, ISO 8976, DIN ISO 8976, ASME B107.500

- 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:
 - Chromed, bi-material ergonomic grips: 181A.CPE.
 - Varnish finish, PVC grips: 181A.G.

	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

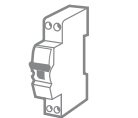
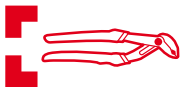
181EF- Locking twin slip-joint multigrip pliers



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

- 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.CPE .
 - Varnish finish, PVC grips: 181EF.G .

	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!

- 1 Long slim nose for improved reach in confined spaces.
- 2 7 positions.
- 3 Capacity (parallel jaws): 44 mm.

SAFE

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

1

44 mm

3

2

180 - High-performance multigrip pliers



- NF ISO 8976, ISO 8976, DIN ISO 8976, ASME B107.500
- 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.
 - 180.VE: Varnish finish, 1,000V insulated grips designed for electrical safety to EN 60 900 and qualified for working on or near live components.

	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

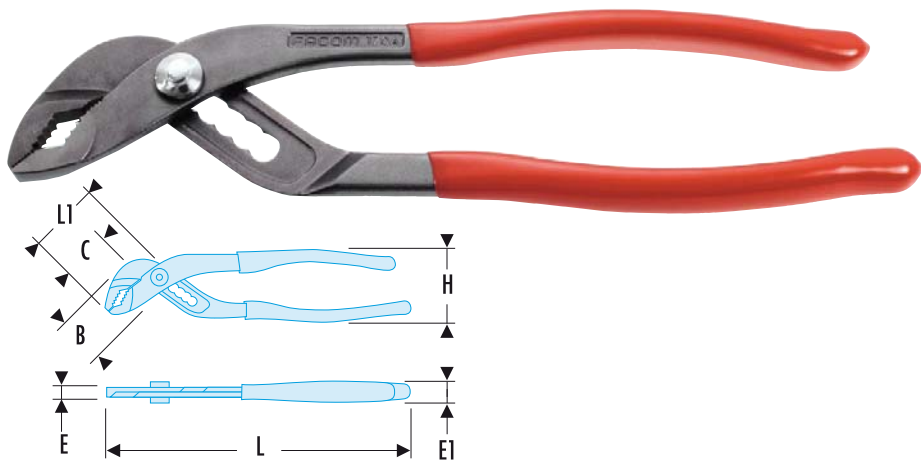
SLIP-JOINT MULTIGRIP PLIERS

SELF-TIGHTENING PLIERS

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

2

Standard multigrip pliers

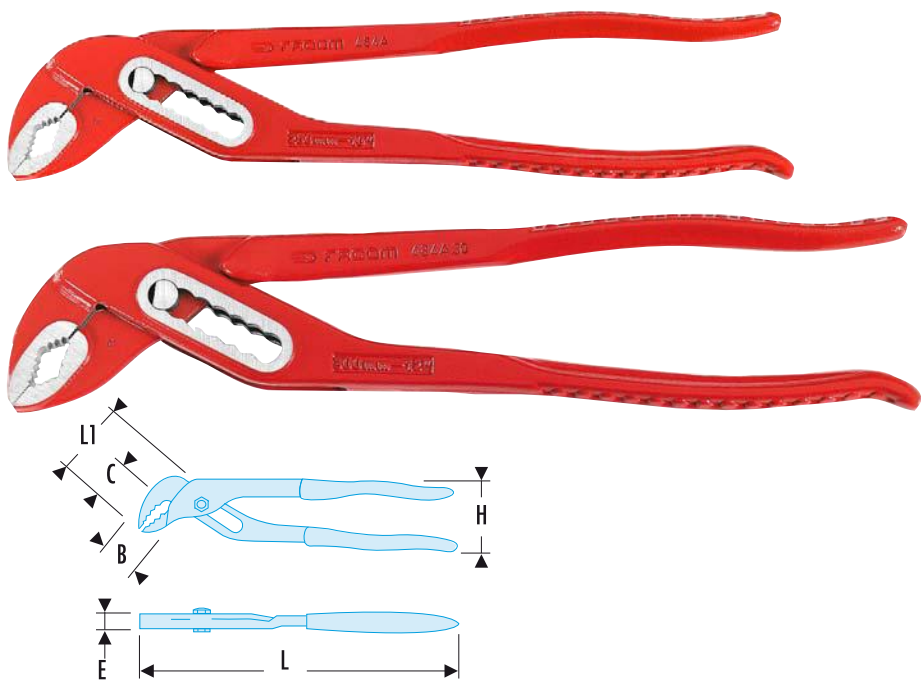


NF ISO 8976, ISO 8976, DIN ISO 8976, ASME B107.500

- Wide jaws for comfortable use.
- Self-gripping teeth.
- Capacity: 46 mm.
- Finger clearance.
- PVC grips.

	B	C	E	E1	H	L	L1	ΔΔ
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[g]
170A	32,5	35	8	17	55	240	56	310

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.
 - 484A0.30: 43 mm.
- Finish: satin surface.

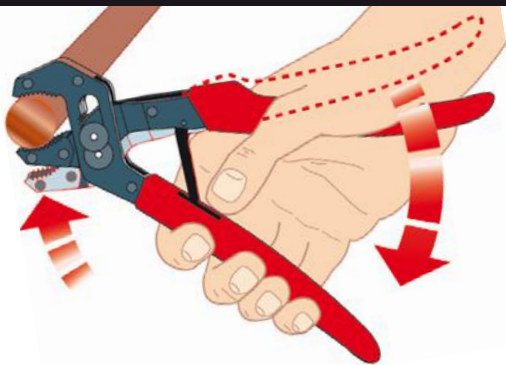
	A	B	C	E	H	L	L1	ΔΔ
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[g]
484A	33	33	38	7,0	50	240	60	345
484A.30	38	38	40	9,5	52	300	66	560

Automatic multigrip pliers

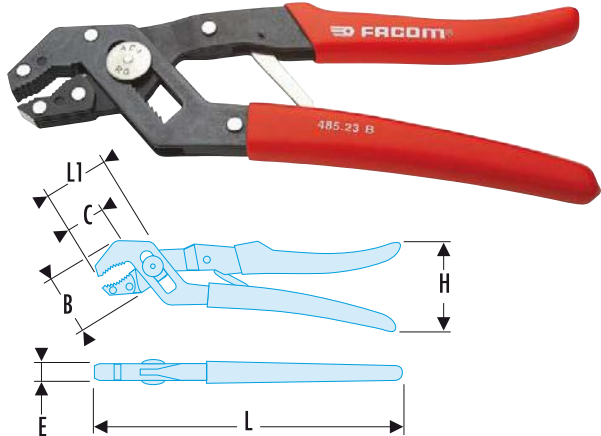
SELF-ADJUSTING MULTIGRIP PLIERS

FAST ADJUSTMENT

- Instant automatic setting with one hand while clamping.



485 - Automatic multigrip pliers

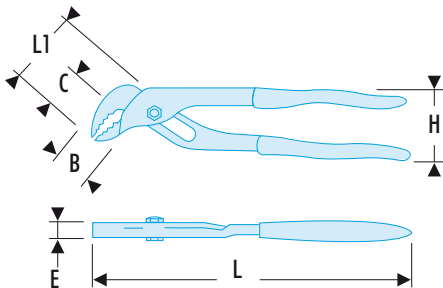


- Instant automatic setting with one hand while clamping.
- Capacity:
 - 485.17: diameter 28 mm, 6-point 23 mm.
 - 485.23: diameter 45 mm, 6-point 38 mm.
- Finish: burnished, PVC grip.

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

Standard multigrip pliers

"Mammoth" multigrip pliers



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

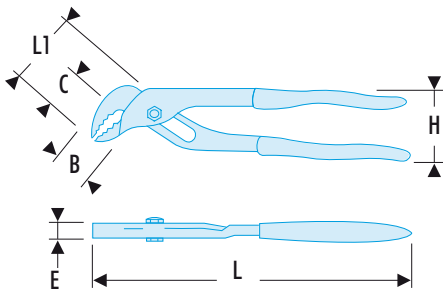
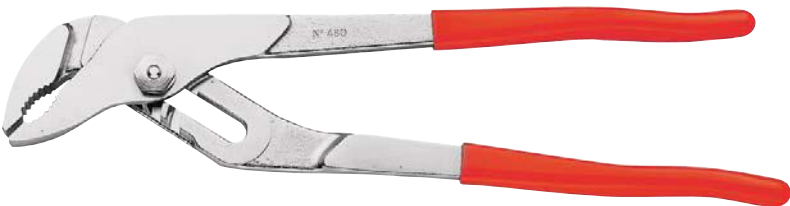
- Powerful, two-handed use ideal for heavy engineering and farm machinery.
- Forged and hardened to 48 HRc.
- Thick-gauge jaws withstand torsion.
- 7 positions.
- Capacity: 58 mm.
- Finish: chromed, polished tips.

Spare pivot pin: 182.SE.

	B [mm]	C [mm]	E [mm]	H [mm]	L [mm]	L1 [mm]	ΔΔ [g]
182A.CP	55	50	10,5	62	362	85	810

Notch-joint multigrip pliers

Notch-joint multigrip pliers

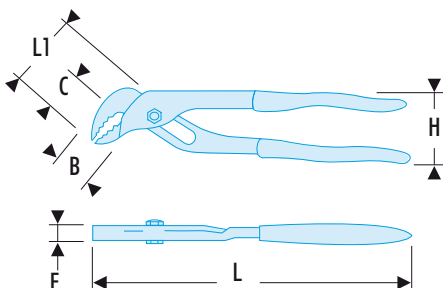


NF ISO 8976, ISO 8976, DIN ISO 8976, ASME B107.500

- Undercut arcs:
 - Positive engagement of notches provides high power.
 - Pivot pin is not load bearing.
 - Smooth adjustment.
- 5 positions.
- Capacity: 36 mm.
- Finish: chrome finish, red PVC grips.

	B [mm]	C [mm]	E [mm]	H [mm]	L [mm]	L1 [mm]	ΔΔ [g]
480.ECG	35	30	9,5	60	250	55	320

482 - Notch-joint multigrip pliers

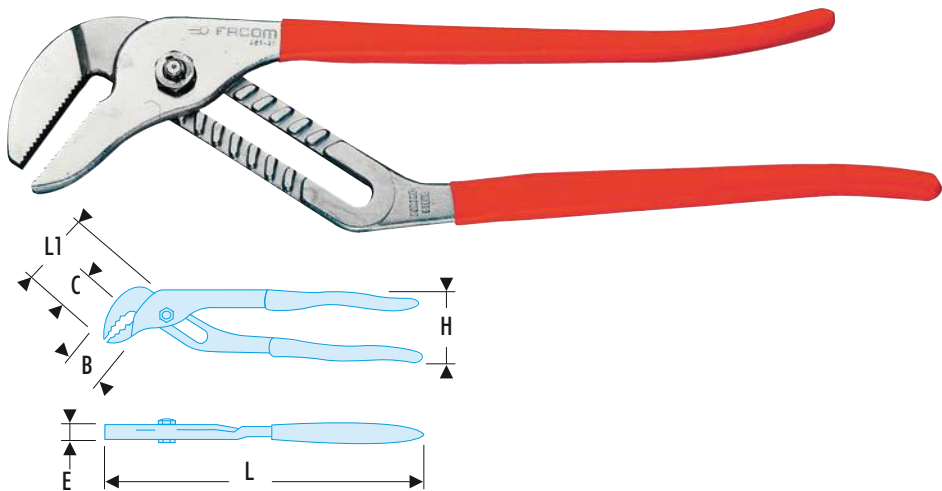


NF ISO 8976, ISO 8976, DIN ISO 8976, ASME B107.500

- Self-gripping teeth.
- Undercut arcs:
 - Positive engagement of notches provides high power.
 - Pivot pin is not load bearing.
- 5 positions.
- Capacity: 36 mm.
- Packaging:
 - CPE model: chrome finish, ergonomic grips.
 - EG model: burnished finish, red PVC grips.

	A [mm]	B [mm]	C [mm]	E [mm]	H [mm]	L [mm]	L1 [mm]	ΔΔ [g]
482.CPE	35	35	30	9,5	60	255	55	365
482.EG	35	35	30	9,5	60	255	55	320

"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	1,10

Cutting pliers

PRECISION CUTTERS

3 TYPES OF CUT:

AXIAL
Hard cutting edges
for all materials.



SEMI-FLUSH
Clean cut in semi-hard
materials.

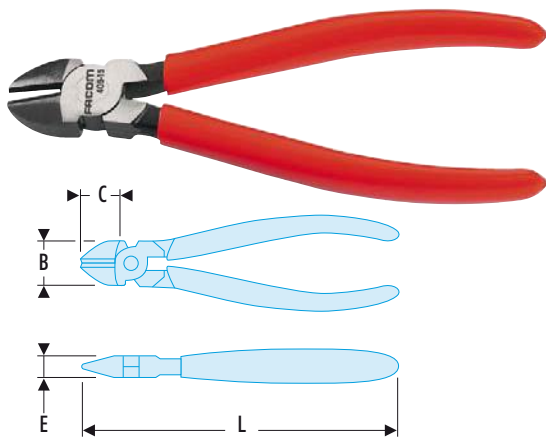


FLUSH
Smooth burr-free
finish.



▶ Micro-Tech® electronic pliers. See Electronic Section p.814.

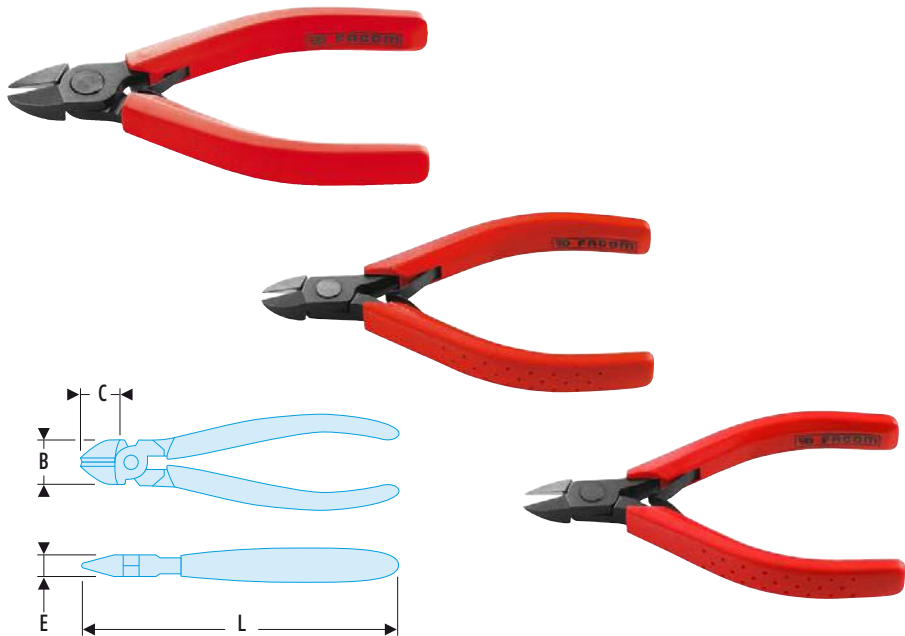
"Compact" diagonal cutters



- 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.
 - Finish: varnished finish, red PVC grips.

	B [mm]	C [mm]	E [mm]	L [mm]	ΔΔ [g]
405.15	20	17	11	160	195

Diagonal cutters

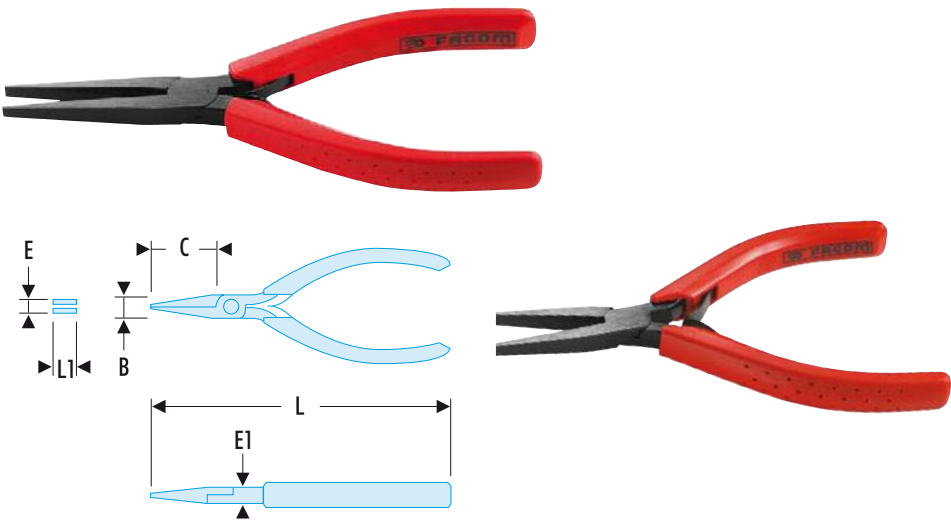


- NF ISO 5749, ISO 5749, DIN ISO 5749, ASME B107.500
- 405: Axial cut.
 - 416 - 435: Semi-flush cut, slim nose.
 - 425: Flush cut, nose extended 13 mm.
 - Finish: Matt burnished finish, red grips - return spring.

	B [mm]	C [mm]	E [mm]	L [mm]	L1 [mm]	ΔΔ [g]
405.12	16,0	16,0	16,0	120	8	95
405.10	11,5	10,5	10,5	110	7	60
435	13,0	10,5	10,5	110	7	60
416	11,5	10,5	10,5	110	7	60
425	13,0	10,5	10,5	110	7	60

Flat-nose pliers

401-421 - Flat nose pliers



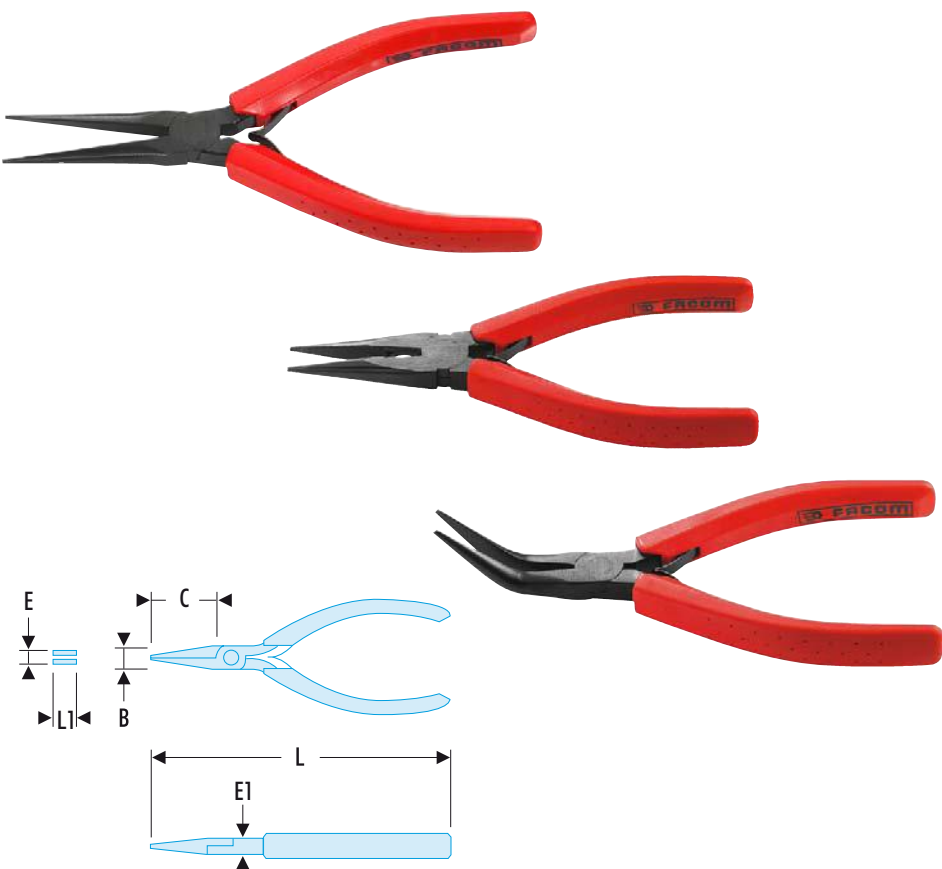
NF ISO 9655, ISO 9655, DIN ISO 9655, ASME B107.500

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

	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

Half-round nose pliers



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

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

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

Wire strippers

194.12 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.
- Weight: 70 g.

FACOM CUTTING PLIERS

HIGH PERFORMANCE !

A diagram of a pair of pliers. The jaws are labeled with red circles containing the numbers 1 and 2. The handle has the brand name 'LECOM' visible.

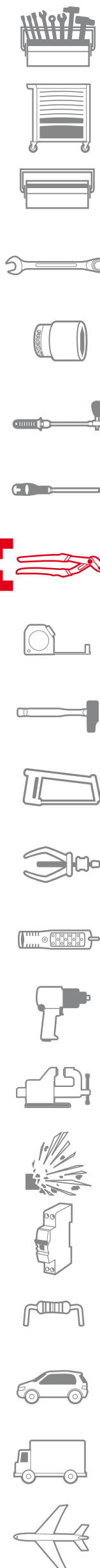
395 396

1

2

3

4



CPE SERIES CHROME-FINISHED PLIERS

STRENGTH

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



192.CPE High-performance diagonal cutters

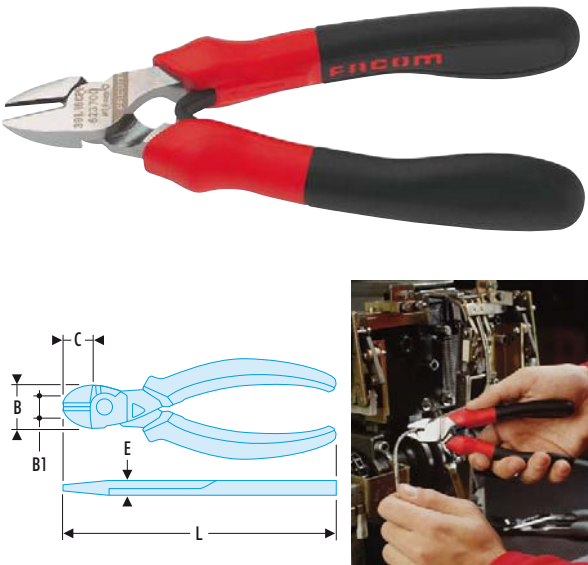


NF ISO 5749, ISO 5749, DIN ISO 5749, ASME B107.500

- Cutting edges designed to cleanly cut all types of wire: piano wire, soft wires and modern materials 200 kg/mm²).
- Minimum cutting force thanks to long lever arm and offset axis.
- High durability Chrome-Molybdenum-Vanadium steel, very hard cutting edges 61/63 HRc.
- Ergonomic grips resistant to chemical agents.
- Removable return spring.
- Finish: chromed.

	B [mm]	C [mm]	d maxi [mm]	E [mm]	L [mm]	ΔΔ [g]
192.14CPE	21,5	15,5	1,4	9,5	145	160
192.16CPE	24,0	18,0	1,6	10,0	160	200
192.18CPE	26,0	20,0	1,8	11,0	180	260
192.20CPE	28,0	22,0	2,0	11,5	200	320

Electricians diagonal cutters



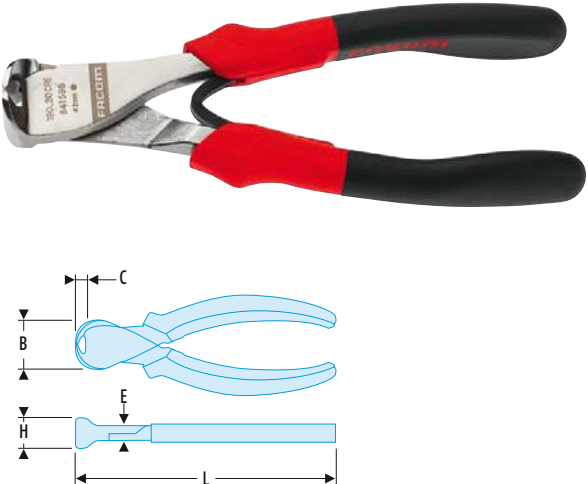
NF ISO 5749, ISO 5749, DIN ISO 5749, ASME B107.500

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

	B [mm]	C [mm]	E [mm]	L [mm]	L1 [mm]	ΔΔ [g]
391.16CPE	19	21	9	165	9	190

End cutters

190.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: piano wire, hard and soft wires (max. 200 kg/mm²).
- 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.
- Removable return spring.
- Finish: chromed.

	A [mm]	B [mm]	C [mm]	d maxi [mm]	E [mm]	L [mm]	ΔΔ [g]
190.16CPE	6,5	28	6,5	1,6	11,5	160	200
190.20CPE	7,5	31	7,5	2,0	13,5	200	340

Half-round nose pliers

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 short-nose pliers.

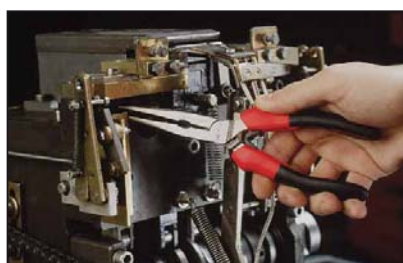
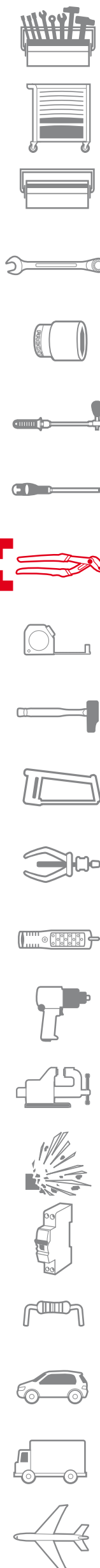
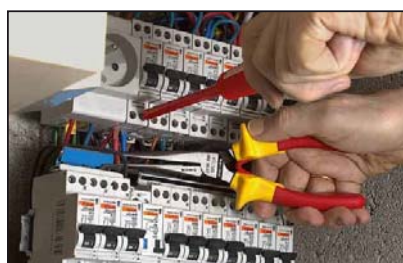
- Narrow, finely serrated tips (0.5mm pitch), with a side wire-cutter.

Straight and 40° angled long-nose pliers.

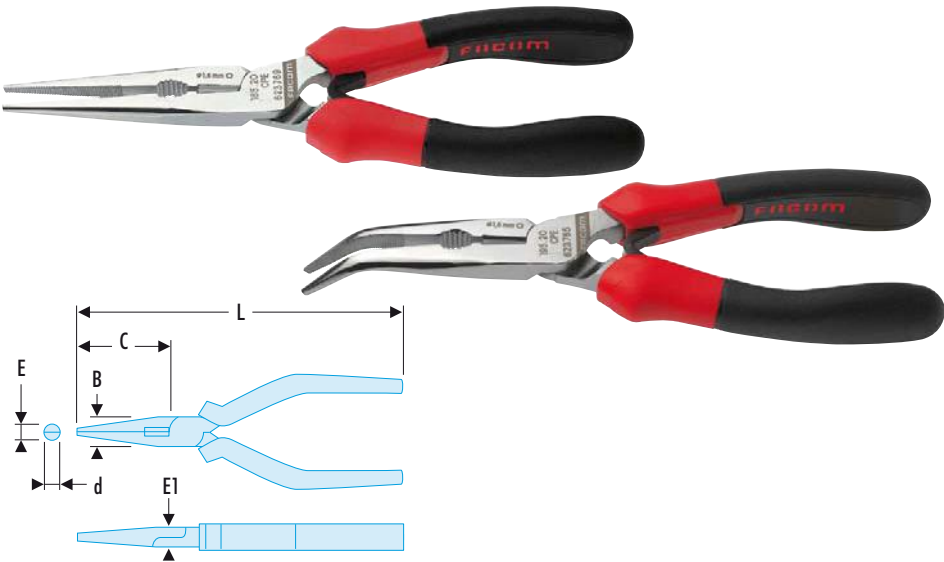
- Reinforced, serrated tips (0.8mm pitch), with a tube grip and side wire-cutter. For mechanics, industrial maintenance, automotive trades, etc. Finishes CPE and TE.
- Narrow, finely serrated tips (0.5mm pitch), with a side wire-cutter. For electricians, electrical fitters, delicate tasks. Finishes G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

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

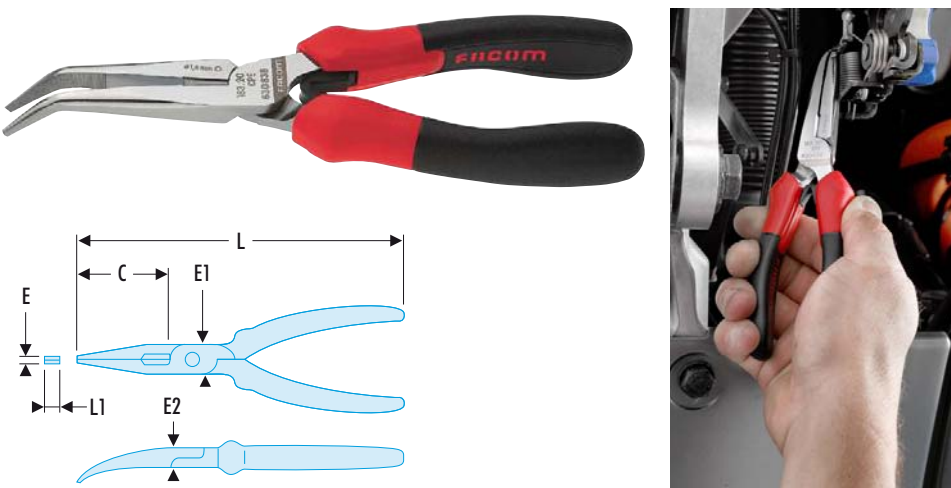
185-195.CPE - Long half-round nose pliers



- NF ISO 5745, ISO 5745, DIN ISO 5745, ASME B107.500
- 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.
 - Ergonomic grips resistant to chemical agents.
 - Removable return spring.
 - Finish: chromed.

	B [mm]	C [mm]	d [mm]	E [mm]	E1 [mm]	L [mm]	ΔΔ [g]
185.20CPE	18	75	2,9	3,6	9	200	192
195.20CPE	18	69	2,9	3,6	9	200	192

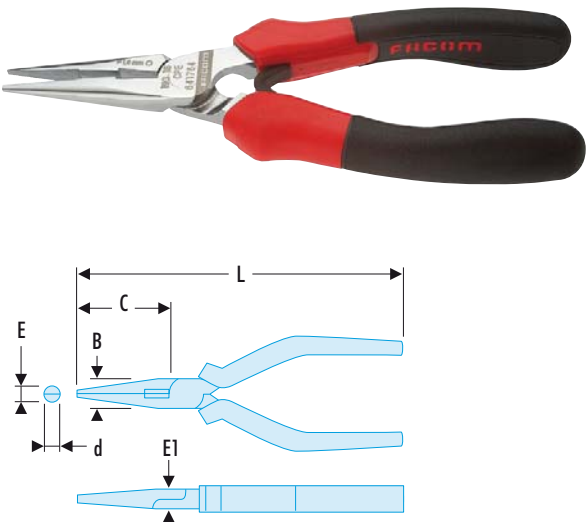
Half-round long snipe-nose pliers



- NF ISO 5745, ISO 5745, DIN ISO 5745, ASME B107.500
- Narrow, finely serrated tips, 40° angled nose.
 - Side cutter for copper and hard steel wire (max. 160 kg/mm²).
 - Ergonomic grips resistant to chemical agents.
 - Removable return spring.
 - Finish: chromed.

	C [mm]	E [mm]	E1 [mm]	E2 [mm]	L [mm]	L1 [mm]	ΔΔ [g]
183.20CPE	69	3	18	9	200	2,5	185

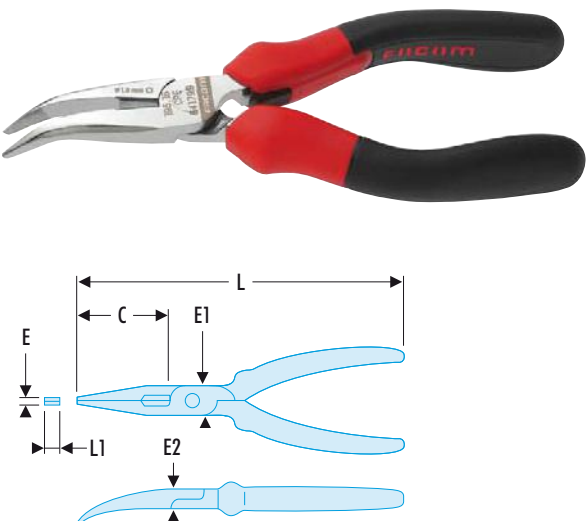
Short half-round nose pliers



- NF ISO 5745, ISO 5745, DIN ISO 5745, ASME B107.500
- Narrow, finely serrated tips.
 - Side cutter for copper and hard steel wire (max. 160 kg/mm²).
 - Ergonomic grips resistant to chemical agents.
 - Removable return spring.
 - Finish: chromed.

	B [mm]	C [mm]	d [mm]	E [mm]	E1 [mm]	L [mm]	ΔΔ [g]
193.16CPE	17	50	2,5	3	9	160	177

Short half-round nose pliers



- NF ISO 5745, ISO 5745, DIN ISO 5745, ASME B107.500
- Narrow, finely serrated tips, 40° angled nose.
 - Side cutter for copper and hard steel wire (max. 160 kg/mm²).
 - Ergonomic grips resistant to chemical agents.
 - Removable return spring.
 - Finish: chromed.

	B [mm]	C [mm]	d [mm]	E [mm]	E1 [mm]	L [mm]	ΔΔ [g]
195.16CPE	17	50	2,5	3	9	160	177

Combination pliers

187.CPE - Combination pliers

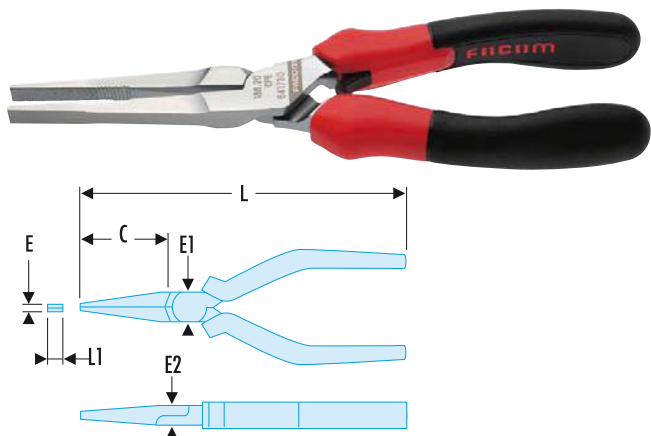


- NF ISO 5746, ISO 5746, DIN ISO 5746, ASME B107.500
- Cutting edges designed to cut all types of wire: piano wire, soft wires and modern materials (Fe 200 kg/mm²).
 - Long lever arm, offset pivot for minimum cutting effort.
 - High durability Chrome-Molybdenum-Vanadium steel, very hard cutting edges 61/63 HRC.
 - Ergonomic grips resistant to chemical agents.
 - Removable return spring.
 - Finish: chromed.

	B [mm]	C [mm]	E [mm]	L [mm]	ΔΔ [g]
187.16CPE	21	34	9,5	165	195
187.18CPE	23	36	10,0	185	225
187.20CPE	26	42	11,5	205	300

Flat-nose pliers

188 - Flat nose pliers

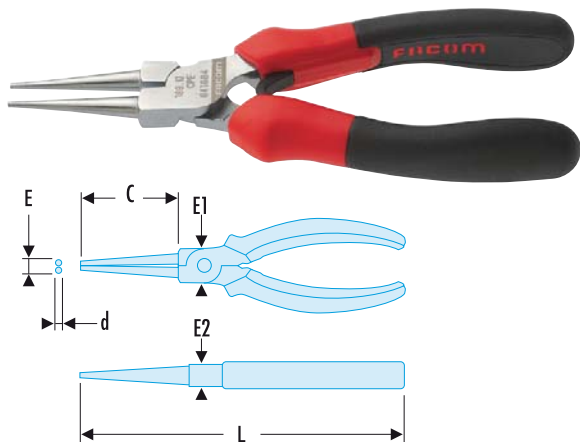


- NF ISO 5745, ISO 5745, DIN ISO 5745, ASME B107.500
- Serrated nose for a firm grip.
 - 188.E: snipe nose version for confined spaces.
 - Ergonomic grips resistant to chemical agents.
 - Removable return spring.
 - Finish: chromed.

	C [mm]	E [mm]	E1 [mm]	E2 [mm]	L [mm]	L1 [mm]	ΔΔ [g]
188.16CPE	46	4,0	18	9	168	6,5	140
188.20CPE	75	4,0	18	9	200	6,5	200
188E.16CPE	46	2,5	18	9	168	3,5	130

Round nose pliers

Round nose pliers

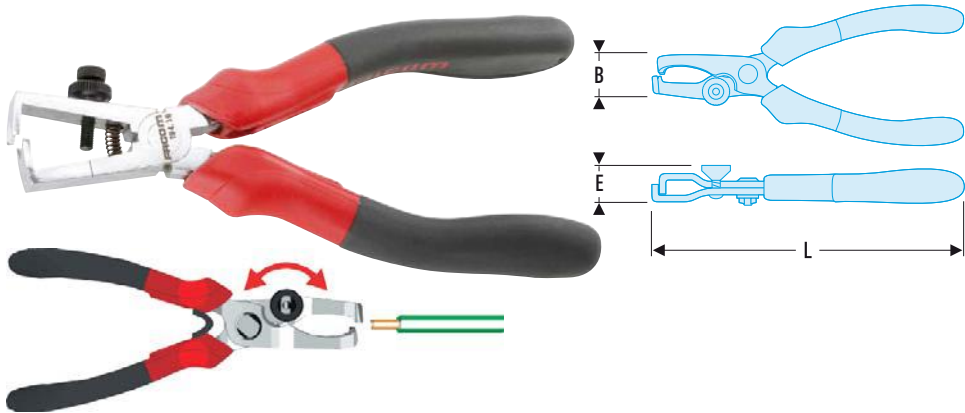


- NF ISO 5745, ISO 5745, DIN ISO 5745, ASME B107.500
- For shaping loops, bends or rings.
 - Finely serrated jaws for positive grip.
 - Diameter of each nose at the end: 2 mm.
 - Ergonomic grips resistant to chemical agents.
 - Removable return spring.
 - Finish: chromed.

	C [mm]	d [mm]	E [mm]	E1 [mm]	E2 [mm]	L [mm]	ΔΔ [g]
189.17CPE	41	2	4	18	9	170	135

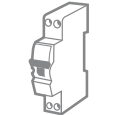
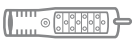
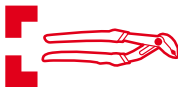
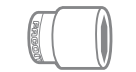
Standard wire strippers

Wire strippers



- For single and multi-core wires 0.5 to 6 mm².
- Adjustment screw with lock nut.
- Metal return screw.
- Ergonomic grips resistant to chemical agents.
- Finish: chromed.

	B [mm]	d mini - maxi [mm]	E [mm]	L [mm]	ΔΔ [g]
194.17CPE	17	0,5 - 6,0	8,5	170	185

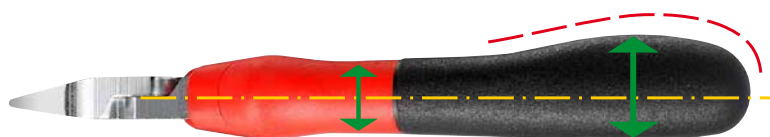
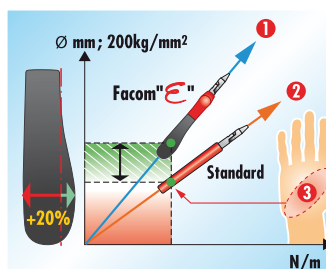


SERIES "E" PLIERS

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.



Return spring

Comfort and precision.

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

Three levels of finish



TE series varnished



CPE series chromed



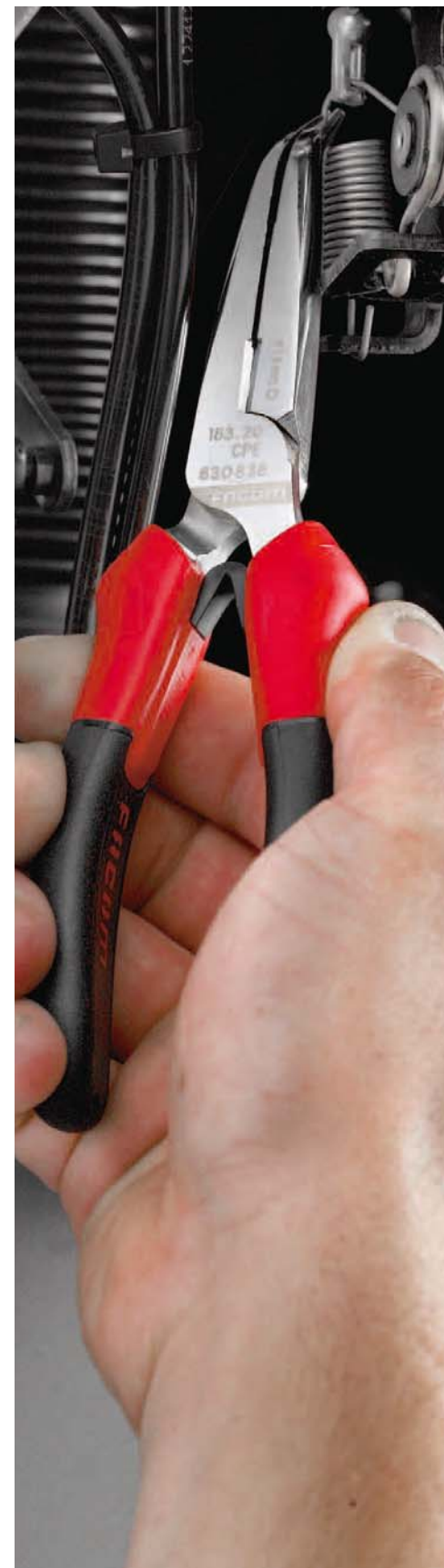
VE series 1,000 V insulated

Highly resistant materials

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

SAFE

- Facom 1,000 V insulated safety pliers meet the requirements of EN 60900 European standard



Diagonal cutters

TE SERIES

VARNISHED, POLISHED PLIERS

Ergonomic!

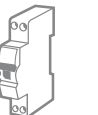
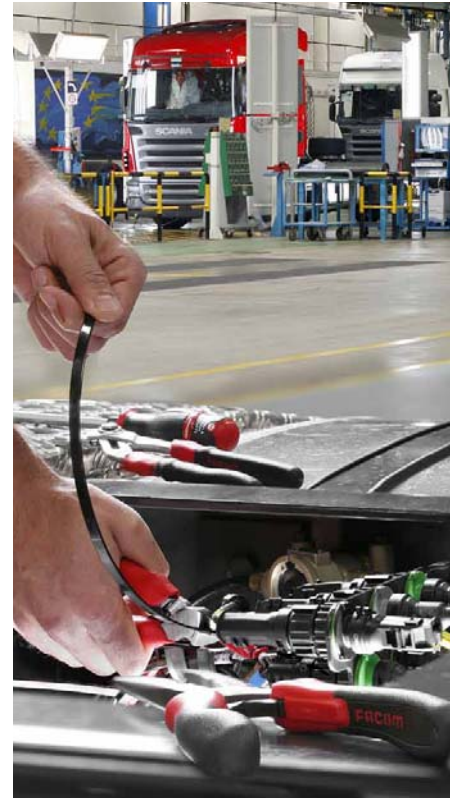
- 1 Spatula-shaped pressure areas**
 - + 20% more slip-resistant.
 - Maximum comfort. Reduced pressure on the hand.
- 2 Return spring**

Comfort and precision.

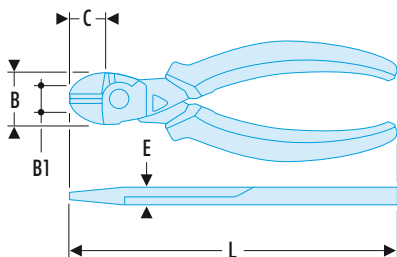
 - The spring naturally wedges the handles snugly between fingers and palm.
- 3 Guard**
 - Designed to provide a firm, comfortable grip for pushing or pulling pressure.

RESISTANT

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



192.TE - High-performance diagonal cutters

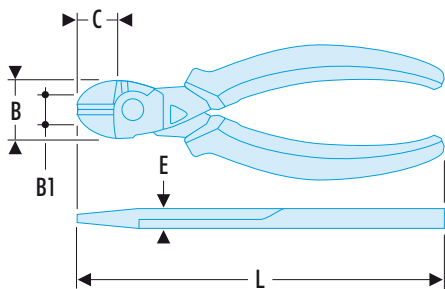


NF ISO 5749, ISO 5749, DIN ISO 5749, ASME B107.500

- Cutting edges designed to cleanly cut all types of wire: piano wire, soft wires and modern materials 200 kg/mm²).
- Minimum cutting force thanks to long lever arm and offset axis.
- High durability Chrome-Molybdenum-Vanadium steel, very hard cutting edges 61/63 HRc.
- Ergonomic grips resistant to chemical agents.
- Removable return spring.
- Finish: polished, varnished.

	B [mm]	C [mm]	d maxi [mm]	E [mm]	L [mm]	$\Delta\Delta$ [g]
192.14TE	21,5	15,5	1,4	9,5	145	160
192.16TE	24,0	18,0	1,6	10,0	160	200
192.18TE	26,0	20,0	1,8	11,0	180	260
192.20TE	28,0	22,0	2,0	11,5	200	320

Electricians diagonal cutters

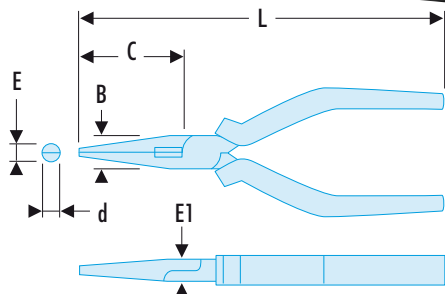


- NF ISO 5749, ISO 5749, DIN ISO 5749, ASME B107.500
- Snipe nose for confined space (electrical cabinets, wiring).
 - Semi-flush cutting edges, designed to cleanly cut through all types of wire: hard wires (max. 160 kg/mm²), thin copper wires, modern materials.
 - Minimum cutting force thanks to long lever arm and offset axis.
 - High durability Chrome-Molybdenum-Vanadium steel, very hard cutting edges 61/63 HRc.
 - Ergonomic grips resistant to chemical agents.
 - Removable return spring.
 - Finish: polished, varnished.

	B [mm]	C [mm]	E [mm]	L [mm]	ΔΔ [g]
391.16TE	19	21	9	165	190

Half-round nose pliers

185-195.TE - Long half-round nose pliers

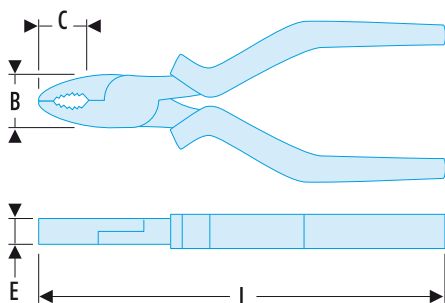


- NF ISO 5745, ISO 5745, DIN ISO 5745, ASME B107.500
- Narrow, finely serrated tips with a pipe-grip.
 - Side cutter for copper and hard steel wire (max. 160 kg/mm²).
 - 185.TE: straight nose.
 - 195.TE: 40° angled nose.
 - Ergonomic grips resistant to chemical agents.
 - Removable return spring.
 - Finish: polished, varnished.

	B [mm]	C [mm]	d [mm]	E1 [mm]	L [mm]	ΔΔ [g]
185.20TE	18	75	2,9	9	200	192
195.20TE	18	69	2,9	9	200	192

Combination pliers

187.TE - Combination pliers

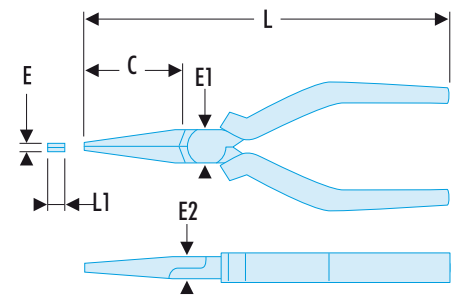


- NF ISO 5746, ISO 5746, DIN ISO 5746, ASME B107.500
- Cutting edges designed to cut all types of wire: piano wire, soft wires and modern materials (Fe 200 kg/mm²).
 - Long lever arm, offset pivot for minimum cutting effort.
 - High durability Chrome-Molybdenum-Vanadium steel, very hard cutting edges 61/63 HRc.
 - Ergonomic grips resistant to chemical agents.
 - Removable return spring.
 - Finish: polished, varnished.

	B [mm]	C [mm]	E [mm]	L [mm]	ΔΔ [g]
187.18TE	23	36	10,0	185	225
187.20TE	26	42	11,5	205	300

Flat-nose pliers

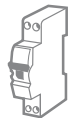
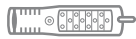
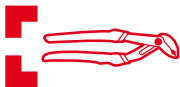
Flat-nose pliers



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

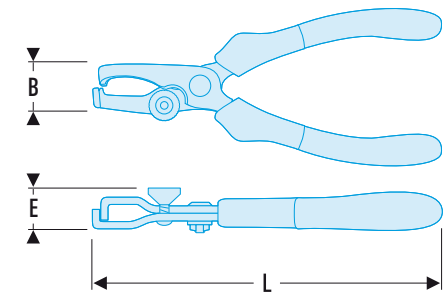
- Serrated jaws for a firm grip.
- Ergonomic grips resistant to chemical agents.
- Removable return spring.
- Finish: polished, varnished.

	C [mm]	E [mm]	E1 [mm]	E2 [mm]	L [mm]	L1 [mm]	ΔΔ [g]
 188.16TE	46	4	18	9	168	6,5	140



Standard wire strippers

Wire strippers



- For single and multi-core wires 0.5 to 6 mm².
- Adjustment screw with lock nut.
- Metal return screw.
- Ergonomic grips resistant to chemical agents.
- Finish: polished, varnished.

	A [mm]	B [mm]	C [mm]	E [mm]	L [mm]	ΔΔ [g]
 194.17TE	17	17	8,5	8,5	170	185

VSE INSULATED CRIMPING PLIERS, WIRE STRIPPERS, ETC.



Electricity section p. 758

Diagonal cutters

SERIES "G"

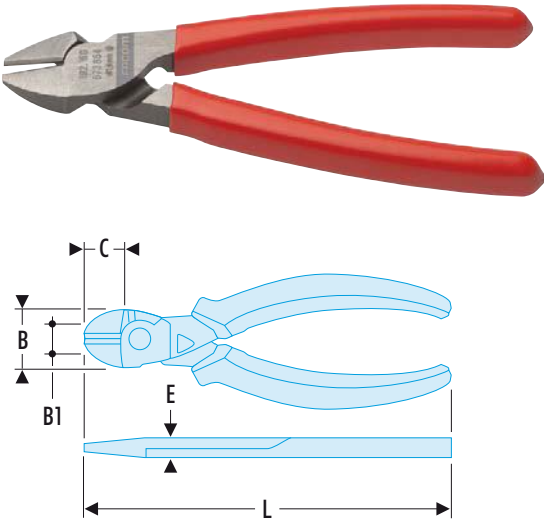
VARNISHED, POLISHED PLIERS

PVC GRIPS

- Identical characteristics and specifications to series CPE and TE.



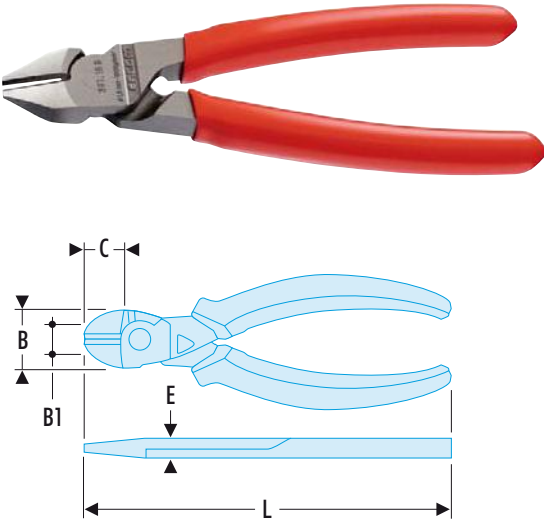
192.G - High-performance diagonal cutters



- NF ISO 5749, ISO 5749, DIN ISO 5749, ASME B107.500
- Cutting edges designed to cleanly cut all types of wire: piano wire, soft wires and modern materials (max. 200 kg/mm²).
 - Long lever arm, offset pivot for minimum cutting effort.
 - High durability Chrome-Molybdenum-Vanadium steel, very hard cutting edges 61/63 HRc.
 - PVC grips.
 - Finish: polished, varnished.

	B [mm]	C [mm]	d maxi [mm]	E [mm]	L [mm]	ΔΔ [g]
192.14G	21,5	15,5	1,4	9,5	145	130
192.16G	24,0	18,0	1,6	10,0	160	170
192.18G	26,0	20,0	1,8	11,0	180	230
192.20G	28,0	22,0	2,0	11,5	200	290

Electricians diagonal cutters

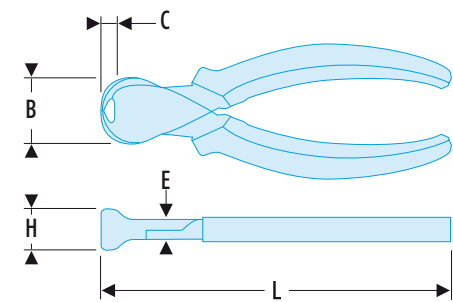
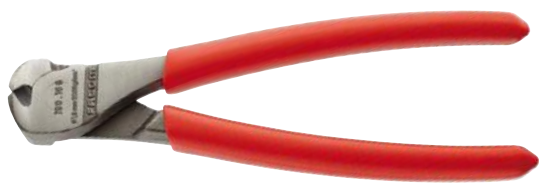


- NF ISO 5749, ISO 5749, DIN ISO 5749, ASME B107.500
- Snipe nose for confined space (electrical cabinets, wiring).
 - Semi-flush cutting edges, designed to cleanly cut through all types of wire: hard wires (max. 160 kg/mm²), thin copper wires, modern materials.
 - Long lever arm, offset pivot for minimum cutting effort.
 - High durability Chrome-Molybdenum-Vanadium steel, very hard cutting edges 61/63 HRc.
 - PVC grips.
 - Finish: polished, varnished.

	B [mm]	C [mm]	E [mm]	L [mm]	ΔΔ [g]
391.16G	19	21	9	165	160

End cutters

190.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: piano wire, hard and soft wires (max. 200 kg/mm²).
 - Long lever arm, offset pivot for minimum cutting effort.
 - High durability Chrome-Molybdenum-Vanadium steel, very hard cutting edges 61/63 HRc.
 - PVC grips.
 - Finish: polished, varnished.

	B [mm]	C [mm]	d maxi [mm]	E [mm]	H [mm]	L [mm]	ΔΔ [g]
190.16G	28	6,5	1,6	11,5	23	160	170
190.20G	31	7,5	2,0	13,5	29	200	310

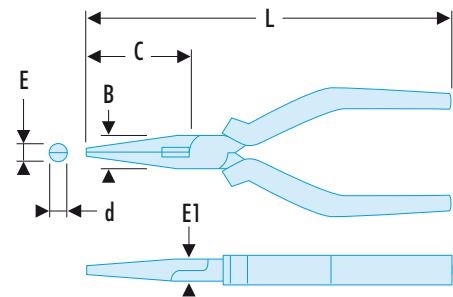
CUTTING PLIERS END “CUTTING” AND “NIPPER”



Find these products in p. 512

Half-round nose pliers

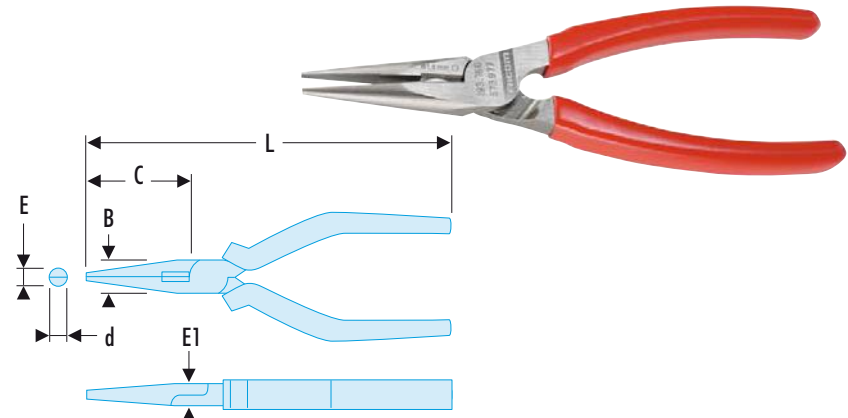
185-195.G - Long half-round nose pliers



- NF ISO 5745, ISO 5745, DIN ISO 5745, ASME B107.500
- Narrow, finely serrated tips with a pipe-grip.
 - Side cutter for copper and hard steel wire (max. 160 kg/mm²).
 - 185.G: straight nose.
 - 195.G: 40° angled nose.
 - PVC grips.
 - Finish: polished, varnished.

	B [mm]	C [mm]	d [mm]	E [mm]	E1 [mm]	L [mm]	ΔΔ [g]
185.20G	18	75	2,9	3,6	9	200	192
195.16G	17	50	2,5	3,0	9	160	177
195.20G	18	69	2,9	3,6	9	200	192

Short half-round nose pliers

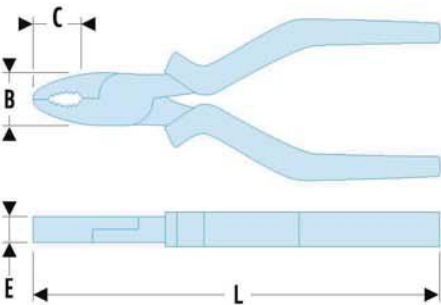


- NF ISO 5745, ISO 5745, DIN ISO 5745, ASME B107.500
- Narrow, finely serrated tips.
 - Side cutter for copper and hard steel wire (max. 160 kg/mm²).
 - PVC grips.
 - Finish: polished, varnished.

	B [mm]	C [mm]	d [mm]	E [mm]	E1 [mm]	L [mm]	ΔΔ [g]
193.16G	17	50	2,5	3	9	160	177

Combination pliers

187.G - Combination pliers



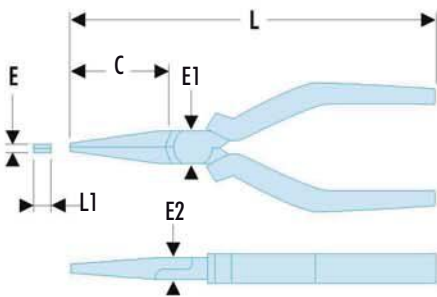
NF ISO 5746, ISO 5746, DIN ISO 5746, ASME B107.500

- Cutting edges designed to cut all types of wire: piano wire, soft wires and modern materials (Fe 200 kg/mm²)
- Long lever arm, offset pivot for minimum cutting effort.
- High durability Chrome-Molybdenum-Vanadium steel, very hard cutting edges 61/63 HRc.
- PVC grips.
- Finish: polished, varnished.

	B [mm]	C [mm]	E [mm]	E1 [mm]	L [mm]	ΔΔ [g]
187.16G	21	34	21	9,5	165	195
187.18G	23	36	23	10,0	185	225
187.20G	26	42	26	11,5	205	300

Flat-nose pliers

188.G - Flat nose pliers



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

- Serrated nose for a firm grip.
- PVC grips.
- Finish: polished, varnished.

	C [mm]	E [mm]	E1 [mm]	E2 [mm]	L [mm]	L1 [mm]	ΔΔ [g]
188.16G	46	4	18	9	168	6,5	140
188.20G	75	4	18	9	200	6,5	200

Diagonal cutters

VE SERIES

1,000 V INSULATED PLIERS



20% MORE SLIP RESISTANT WITH SPATULA SHAPED PRESSURE AREAS Guard

- Firm, comfortable grip for pushing or pulling pressure.

Return spring for added safety

- 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 10,000 V immersion test
- 2 5,000 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

- 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.



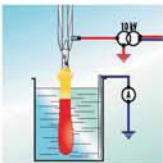
Guard



Return spring for added safety

SAFETY

- Prevent damage to insulation from:
 - heat (-20 to +70° working temperature)
 - chemicals
 - cuts or perforations
- Visually check the insulation before use.
- Wear glasses and gloves.



1



2



3

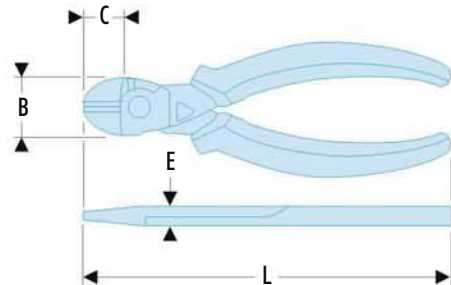


4



5

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

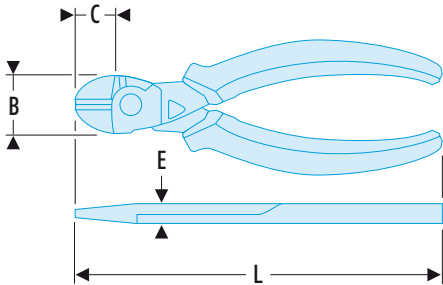


NF ISO 5749, NF EN 60900, ISO 5749, EN 60900, DIN ISO 5749, DIN EN 60900, ASME B107.500

- For your safety, all pliers are tested individually at 10,000 Volt for 10 seconds, at the end of the manufacturing cycle.
- Cutting edges designed to cleanly cut through all types of wire: piano wire, soft wires, modern materials, etc.
- Minimum cutting force thanks to long lever arm and offset axis.
- High durability thanks to Chrome-Molybdenum-Vanadium steel (hard cutting edges: 61/63 HRC).
- Removable return spring.
- Ergonomic anti-slip grips.
- Finish: polished, varnished.

	B [mm]	C [mm]	E [mm]	L [mm]	ΔΔ [g]
192.14VE	21,5	15,5	9,5	145	160
192.16VE	24,0	18,0	10,0	160	200
192.18VE	26,0	20,0	11,0	180	260

1,000 Volt insulated electricians diagonal cutters

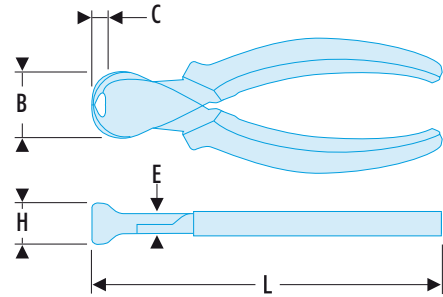


- NF ISO 5749, NF EN 60900, ISO 5749, EN 60900, DIN ISO 5749, DIN EN 60900, ASME B107.500
- For your safety, all pliers are tested individually at 10,000 Volt for 10 seconds, at the end of the manufacturing cycle.
 - Slim head for confined access (electric cabinets, wiring works, etc.).
 - Semi-flush cutting edges to cleanly cut through all types of wire: hard wire, thin copper wires, modern materials, etc.
 - Minimum cutting force thanks to long lever arm and offset axis.
 - High durability thanks to Chrome-Molybdenum-Vanadium steel (hard cutting edges: 61/63 HRc).
 - Removable return spring.
 - Ergonomic anti-slip grips.
 - Finish: polished, varnished.

	B [mm]	C [mm]	E [mm]	L [mm]	ΔΔ [g]
391.16VE	19	21	9	165	190

End cutters

1,000 Volt insulated high-performance end cutters

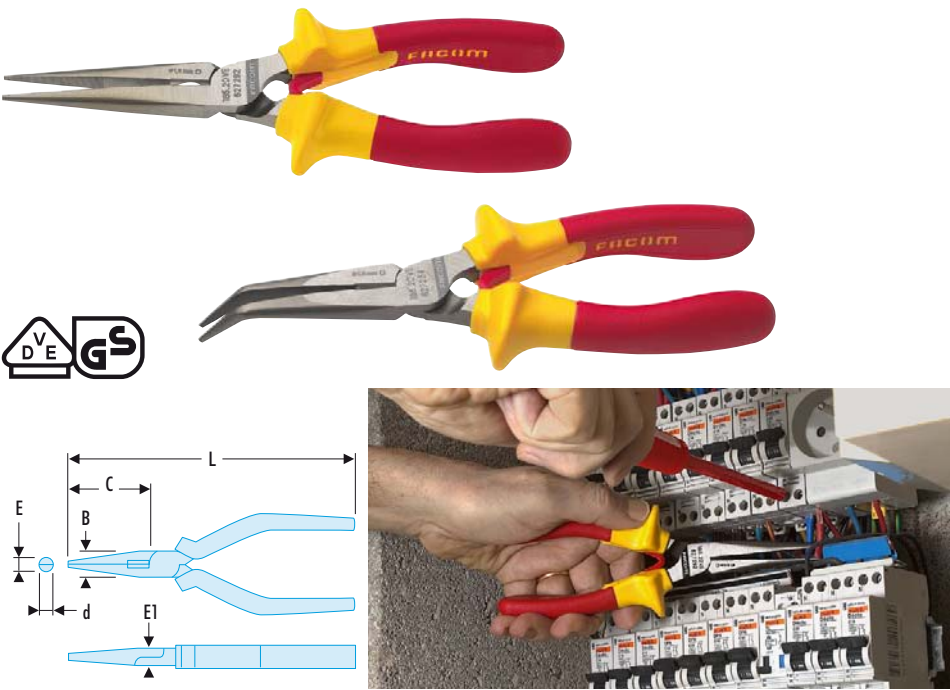


- NF ISO 5748, NF EN 60900, ISO 5748, EN 60900, DIN ISO 5748, DIN EN 60900, ASME B107.500
- For your safety, all pliers are tested individually at 10,000 Volt for 10 seconds, at the end of the manufacturing cycle.
 - Cutting edges designed to cleanly cut through all types of wire: piano wire, hard and soft wires.
 - Minimum cutting force thanks to long lever arm and offset axis.
 - High durability thanks to Chrome-Molybdenum-Vanadium steel (hard cutting edges: 61/63 HRc).
 - Removable return spring.
 - Ergonomic anti-slip grips.
 - Finish: polished, varnished.

	B [mm]	C [mm]	E [mm]	H [mm]	L [mm]	ΔΔ [g]
190.16VE	28	6,5	11,5	23	160	200

Half-round nose pliers

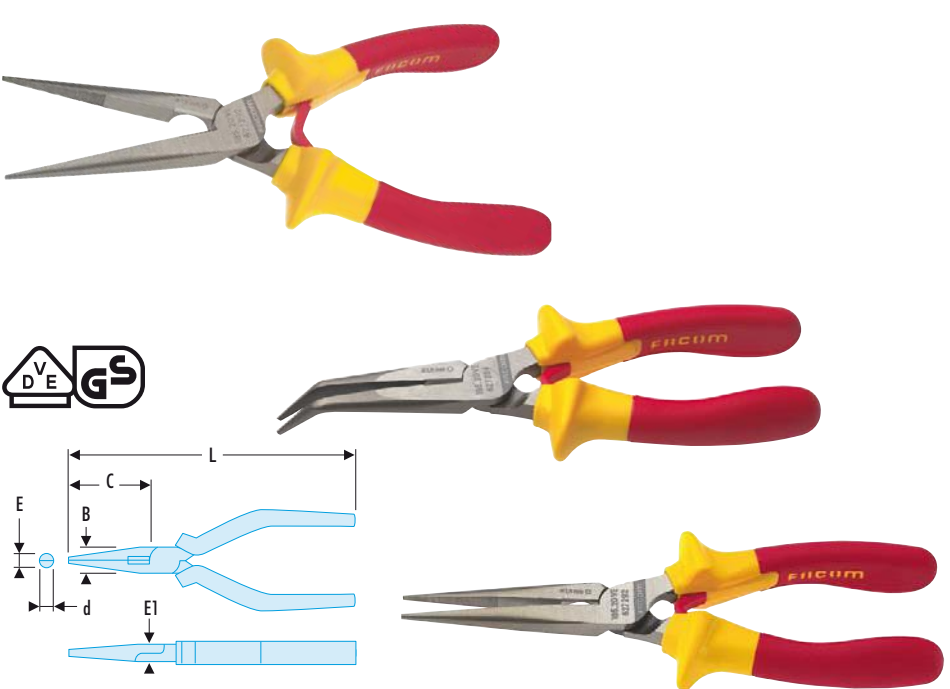
185-195.VE - 1,000 Volt insulated long half-round nose pliers



- NF ISO 5745, NF EN 60900, ISO 5745, EN 60900, DIN ISO 5745, DIN EN 60900, ASME B107.500
- 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.
 - 185.VE: straight nose. Checked by VDE.
 - 195.VE: 40° angled nose.
 - Removable return spring.
 - Ergonomic anti-slip grips.
 - Finish: polished, varnished.

	B [mm]	C [mm]	d [mm]	E [mm]	E1 [mm]	L [mm]	ΔΔ [g]
185.20VE	18	75	2,9	3,6	9	200	192
195.20VE	18	69	2,9	3,6	9	200	192

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

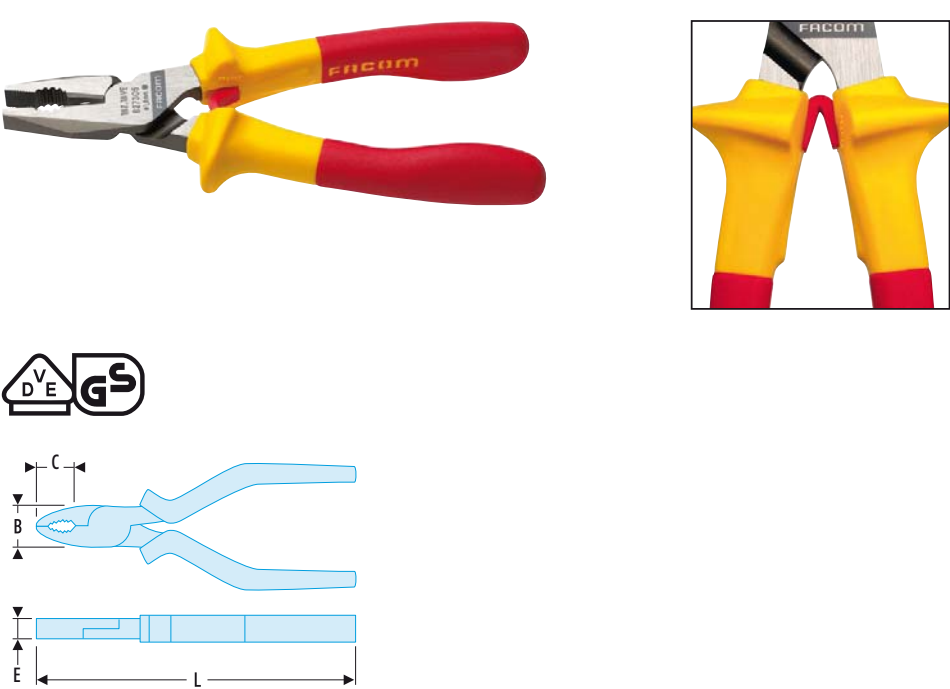


- NF ISO 5745, NF EN 60900, ISO 5745, EN 60900, DIN ISO 5745, DIN EN 60900, ASME B107.500
- For your safety, all pliers are tested individually at 10,000 Volt for 10 seconds, at the end of the manufacturing cycle.
 - Slim, fine serrated noses.
 - Lateral wire cutter for copper and hard steel wire.
 - 193.VE: straight nose.
 - 195.VE: 40° angled nose.
 - Removable return spring.
 - Ergonomic anti-slip grips.
 - Finish: polished, varnished.

	B [mm]	C [mm]	d [mm]	E [mm]	E1 [mm]	L [mm]	ΔΔ [g]
193.16VE	17	50	2,5	3	9	160	177
195.16VE	17	50	2,5	3	9	160	177

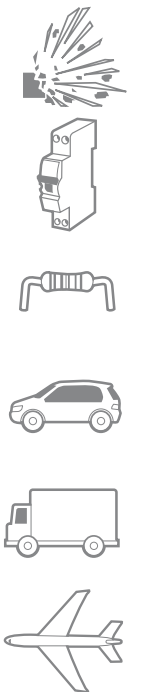
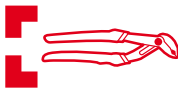
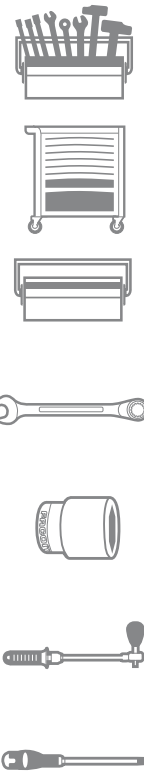
Combination pliers

187.VE - 1,000 Volt insulated combination pliers



- NF ISO 5746, NF EN 60900, ISO 5746, EN 60900, DIN ISO 5746, DIN EN 60900, ASME B107.500
- For your safety, all pliers are tested individually at 10,000 Volt for 10 seconds, at the end of the manufacturing cycle.
 - Cutting edges designed to cut through all types of wire: piano wire, soft wires, modern materials, etc.
 - Minimum cutting force thanks to long lever arm and offset axis.
 - High durability thanks to Chrome-Molybdenum-Vanadium steel (hard cutting edges: 61/63 HRC).
 - Removable return spring.
 - Ergonomic anti-slip grips.
 - Finish: polished, varnished.

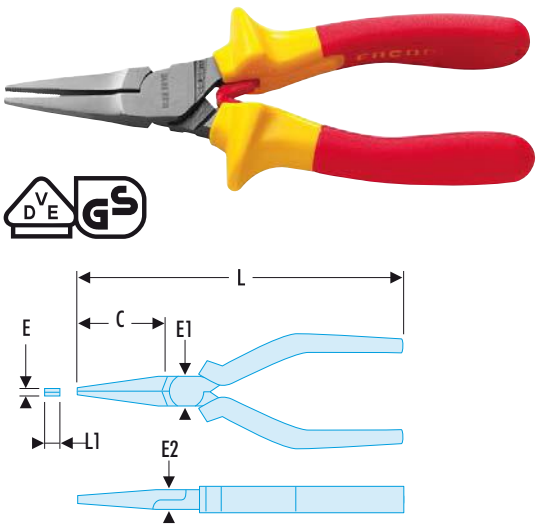
	B [mm]	C [mm]	E [mm]	L [mm]	ΔΔ [g]
187.16VE	21	34	9,5	165	195
187.18VE	23	36	10,0	185	225



VE series 1,000 Volt pliers

Flat-nose pliers

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

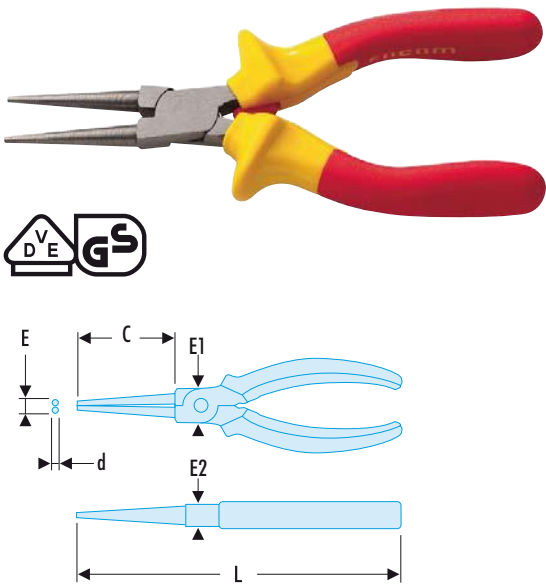


- NF ISO 5745, NF EN 60900, ISO 5745, EN 60900, DIN ISO 5745, DIN EN 60900, ASME B107.500
- For your safety, all pliers are tested individually at 10,000 Volt for 10 seconds, at the end of the manufacturing cycle.
 - Serrated nose for stronger grip.
 - Removable return spring.
 - Ergonomic anti-slip grips.
 - Finish: polished, varnished.

	C [mm]	E [mm]	E1 [mm]	E2 [mm]	L [mm]	L1 [mm]	ΔΔ [g]
188.16VE	46	4	18	9	168	6,5	140
188.20VE	75	4	18	9	200	6,5	200

Round nose pliers

1,000 Volt insulated round nose pliers

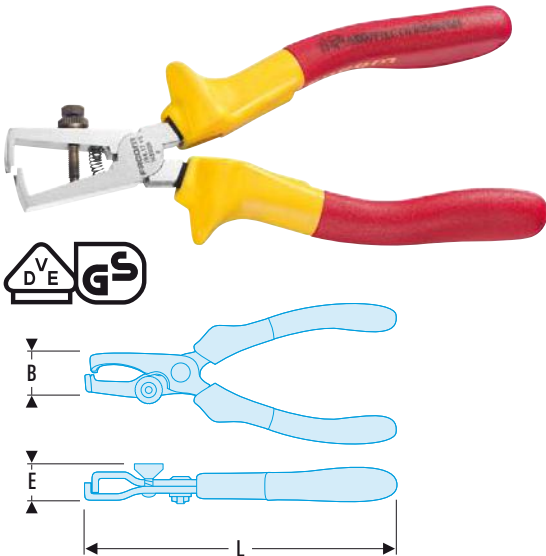


- NF ISO 5745, NF EN 60900, ISO 5745, EN 60900, DIN ISO 5745, DIN EN 60900, ASME B107.500
- For your safety, all pliers are tested individually at 10,000 Volt for 10 seconds, at the end of the manufacturing cycle.
 - To make loops, angles or rings.
 - Nose finely serrated inside for stronger grip.
 - Diameter of each nose at the end: 2 mm.
 - Removable return spring.
 - Ergonomic anti-slip grips.
 - Finish: polished, varnished.

	C [mm]	d [mm]	E [mm]	E1 [mm]	E2 [mm]	L [mm]	ΔΔ [g]
189.17VE	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 multiple or single strand wires 0.5 --> 6 mm².
 - Adjustment screw with lock nut.
 - Metal return screw.
 - Ergonomic anti-slip grips.
 - Finish: polished, varnished.

	B [mm]	E [mm]	L [mm]	ΔΔ [g]
194.17VE	17	8,5	170	185

MULTIGRIP PLIERS 180.VE - RIVETED PIVOT



Find the 180.VE pliers p. 792

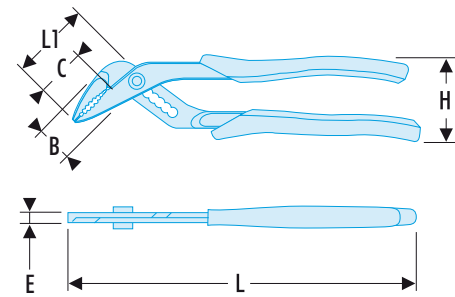
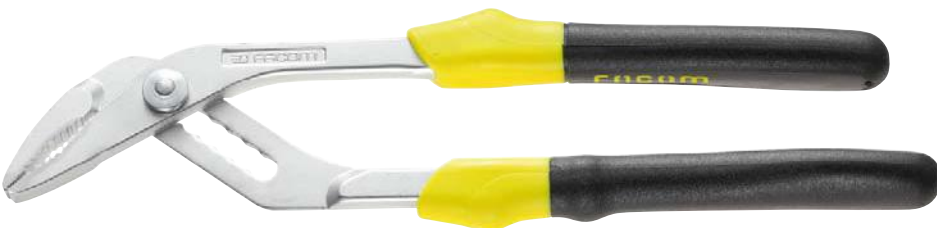
Slip-joint locking multigrip pliers with fluorescent grips



- NF ISO 8976, ISO 8976, DIN ISO 8976, ASME B107.500
- Detect the tool thanks to its fluorescence, activated by a lamp or UV neon light.
 - Fast, precise push-button adjustment with safety lock.
 - Self-tightening.
 - Double heat-treated noses; hardness 60/62 HRc.
 - Finish: chromed.

	A [mm]	C [mm]	E [mm]	Capacity Nuts [mm]
181.25CPEF	33,8	55	28	41

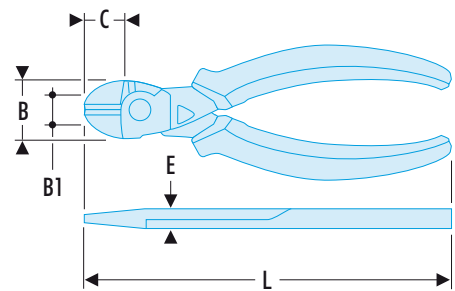
Slip-joint multigrip pliers with fluorescent grips



- NF ISO 8976, ISO 8976, DIN ISO 8976, ASME B107.500
- Detect the tool thanks to its fluorescence, activated by a lamp or UV neon light.
 - Capacity: 44 mm.
 - Ideal for confined spaces: Long reach thin noses.
 - Double heat-treated tips: high wear resistance, hardness 60/62 HRc.
 - Finish: chromed, bi-material ergonomic grips.

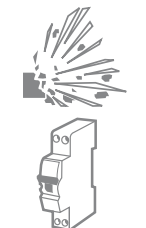
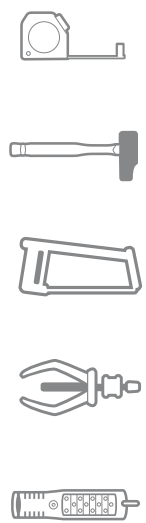
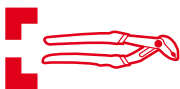
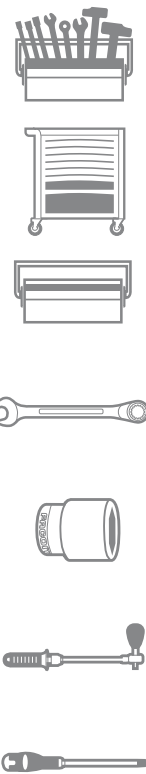
	B [mm]	C [mm]	E [mm]	E1 [mm]	L [mm]	L1 [mm]
180.CPEF	30	35	8	22	250	58

192.CPEF - Diagonal cutters with fluorescent grips

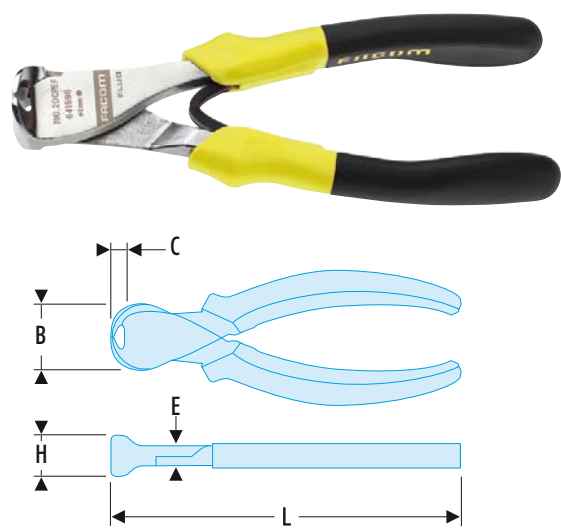


- NF ISO 5749, ISO 5749, DIN ISO 5749, ASME B107.500
- Detect the tool thanks to its fluorescence, activated by a lamp or UV neon light.
 - Cutting edges designed to cleanly cut through all types of wire: piano wire, soft wires and modern materials (max. 200 kg/mm²).
 - Long lever arm, offset pivot for minimum cutting effort.
 - High durability Chrome-Molybdenum-Vanadium steel, very hard cutting edges 61/63 HRc.
 - Ergonomic grips resistant to chemical agents.
 - Removable return spring.
 - Finish: chromed.

	B [mm]	C [mm]	d maxi [mm]	E [mm]	L [mm]	ΔΔ [g]
192.14CPEF	21,5	15,5	1,5	9,5	145	160
192.20CPEF	28,0	22,0	2,5	11,5	200	320



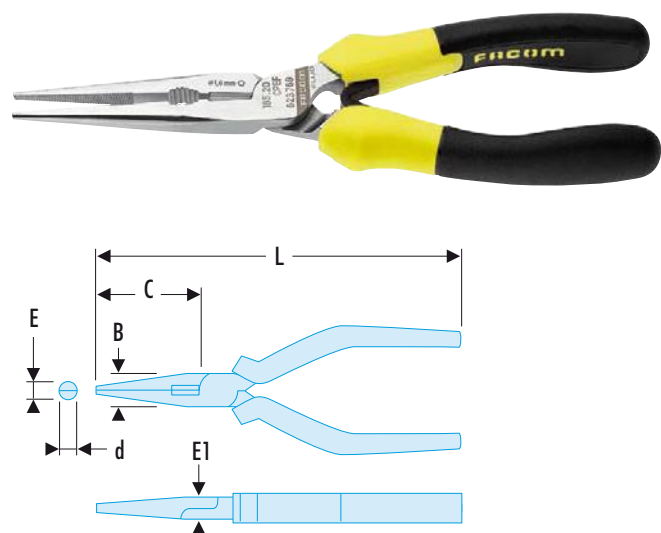
Front cutters with fluorescent grips



- NF ISO 5748, ISO 5748, DIN ISO 5748, ASME B107.500
- Detect the tool thanks to its fluorescence, activated by a lamp or UV neon light.
 - Cutting edges designed to cleanly cut through all types of wire: piano wire, hard and soft wires (max. 200 kg/mm²).
 - 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.
 - Removable return spring.
 - Finish: chromed.

	A [mm]	B [mm]	C [mm]	E [mm]	L [mm]	ΔΔ [g]
190.20CPEF	7,5	31	7,5	13,5	200	340

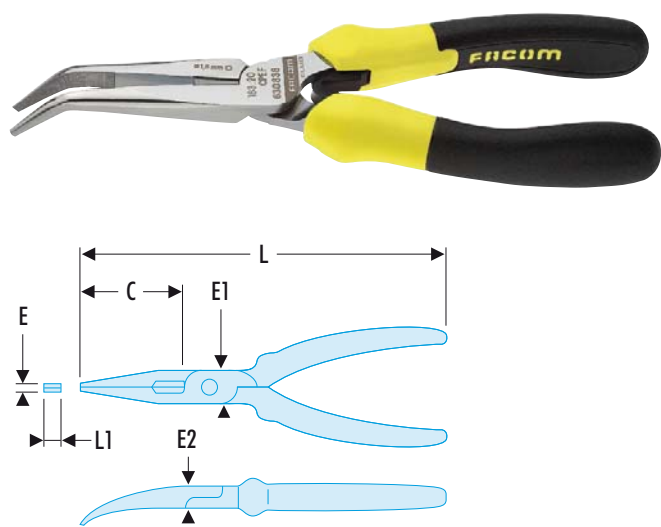
Long-reach half-round nose pliers with fluorescent grips



- NF ISO 5745, ISO 5745, DIN ISO 5745, ASME B107.500
- Detect the tool thanks to its fluorescence, activated by a lamp or UV neon light.
 - Narrow, finely serrated tips with a pipe-grip.
 - Side cutter for copper and hard steel wire (max. 160 kg/mm²).
 - Ergonomic grips resistant to chemical agents.
 - Removable return spring.
 - Finish: chromed.

	B [mm]	C [mm]	d [mm]	E [mm]	E1 [mm]	L [mm]	ΔΔ [g]
185.20CPEF	18	75	2,9	3,6	9	200	200

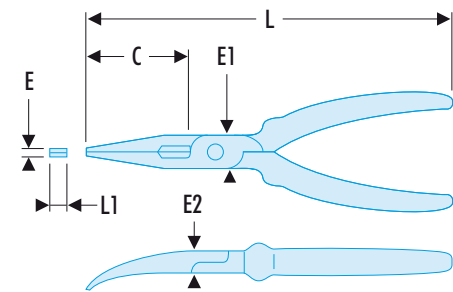
Long-reach slim half-round nose pliers with fluorescent grips



- NF ISO 5745, ISO 5745, DIN ISO 5745, ASME B107.500
- Detect the tool thanks to its fluorescence, activated by a lamp or UV neon light.
 - Narrow, finely serrated tips, 40° angled nose.
 - Side cutter for copper and hard steel wire (max. 160 kg/mm²).
 - Ergonomic grips resistant to chemical agents.
 - Removable return spring.
 - Finish: chromed.

	C [mm]	E [mm]	E1 [mm]	E2 [mm]	L [mm]	L1 [mm]	ΔΔ [g]
183.20CPEF	69	3	18	9	200	2,5	185

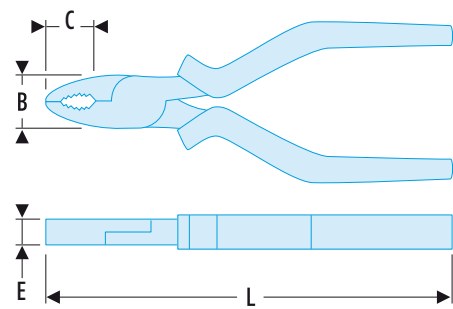
Short half-round nose pliers with fluorescent grips



- NF ISO 5745, ISO 5745, DIN ISO 5745, ASME B107.500
- Detect the tool thanks to its fluorescence, activated by a lamp or UV neon light.
 - Narrow, finely serrated tips, 40° angled, with a pipe-grip.
 - Side cutter for copper and hard steel wire (max. 160 kg/mm²).
 - Ergonomic grips resistant to chemical agents.
 - Removable return spring.
 - Finish: chromed.

	B [mm]	C [mm]	d [mm]	E [mm]	E1 [mm]	L [mm]	ΔΔ [g]
195.16CPEF	17	50	2,5	3	9	160	177

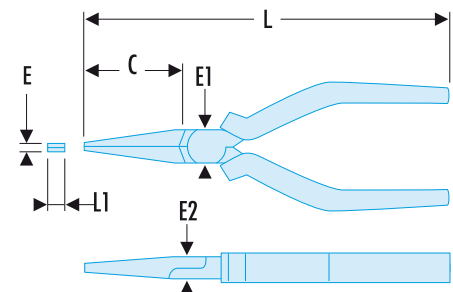
Combination pliers with fluorescent grips



- NF ISO 5746, ISO 5746, DIN ISO 5746, ASME B107.500
- Detect the tool thanks to its fluorescence, activated by a lamp or UV neon light.
 - Cutting edges designed to cut through all types of wire: piano wire, soft wires and modern materials (max. Fe 200 kg/mm²).
 - 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.
 - Removable return spring.
 - Finish: chromed.

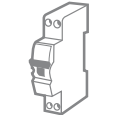
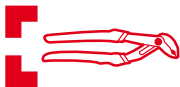
	B [mm]	C [mm]	E [mm]	L [mm]	ΔΔ [g]
187.16CPEF	21	34	9,5	165	195

Flat nose pliers with fluorescent grips

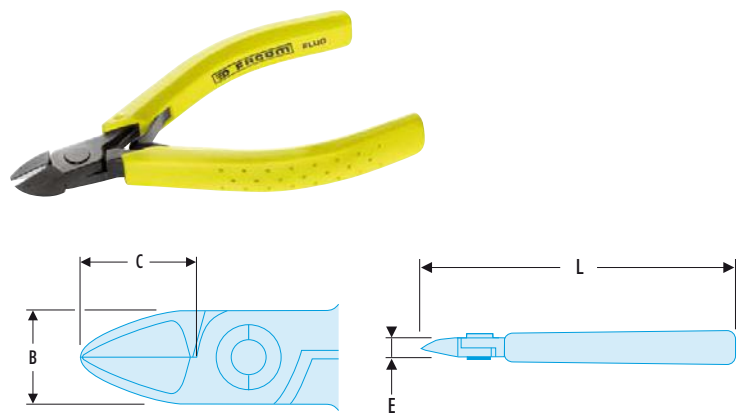


- NF ISO 5745, ISO 5745, DIN ISO 5745, ASME B107.500
- Detect the tool thanks to its fluorescence, activated by a lamp or UV neon light.
 - Serrated nose for stronger grip.
 - Ergonomic grips resistant to chemical agents.
 - Removable return spring.
 - Finish: chromed.

	C [mm]	E [mm]	E1 [mm]	E2 [mm]	L [mm]	L1 [mm]	ΔΔ [g]
188.20CPEF	75	4	18	9	200	6,5	200



Micro-Tech® "heavy-duty" cutters with fluorescent grips

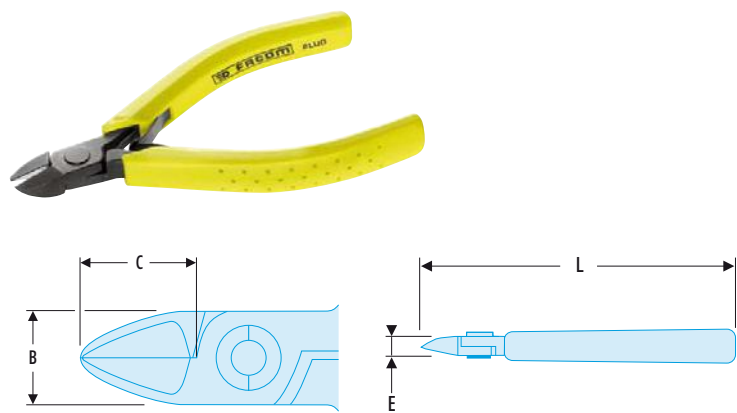


NF ISO 9654, ISO 9654, DIN ISO 9654, ASME B107.500

- Detect the tool thanks to its fluorescence, activated by a lamp or UV neon light.
- Pliers for clear cutting multiple materials: from copper wire to piano wire up to 0.5 mm.

	B [mm]	C [mm]	E [mm]	L [mm]	Cu - Ni wire diameter [mm]	Fe wire 30 HRc diameter [mm]	Cut	ΔΔ [g]
405.10MTF	10,5	11,5	7	110	0,3 - 1,4	0,8		60

Micro-Tech® long-reach cutters with fluorescent grips

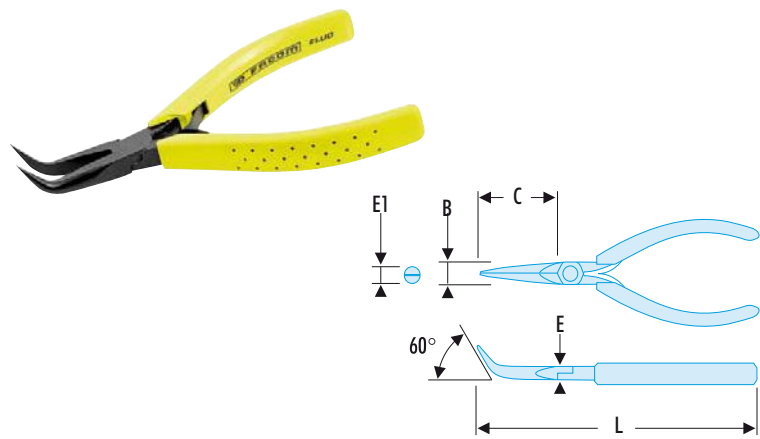


NF ISO 9654, ISO 9654, DIN ISO 9654, ASME B107.500

- Detect the tool thanks to its fluorescence, activated by a lamp or UV neon light.
- Long-reaching pliers up to 1.5 to 2 mm more than with standard pliers.
- The model with retention system prevents the wire from being ejected.

	B [mm]	C [mm]	E [mm]	L [mm]	Cu - Ni wire diameter [mm]	Cut	ΔΔ [g]
425F	10,5	13	7	110	0,1 - 1,3		60

Micro-Tech® gripping pliers with fluorescent grips



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

- Detect the tool thanks to its fluorescence, activated by a lamp or UV neon light.
- Rigid jaws, angled 60°.

	B [mm]	C [mm]	E [mm]	E1 [mm]	L [mm]	ΔΔ [g]
423.MTF	11	25	7	1,4	125	70

Inside Circlip® pliers with fluorescent grips - straight nose



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

- Detect the tool thanks to its fluorescence, activated by a lamp or UV neon light.
- For Circlips® 19 --> 60 mm.

	d [mm]	d mini - maxi [mm]	L [mm]	ΔΔ [g]
179A.18F	1,8	19 - 60	185	215

Inside Circlip® pliers with fluorescent grips - 45° angled



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

- Detect the tool thanks to its fluorescence, activated by a lamp or UV neon light.
- For Circlips® 19 --> 60 mm.

	d [mm]	d mini - maxi [mm]	L [mm]	ΔΔ [g]
199A.18F	1,8	19 - 60	170	215

Outside Circlip® pliers with fluorescent grips - straight nose



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

- Detect the tool thanks to its fluorescence, activated by a lamp or UV neon light.
- For Circlips® 19 --> 60 mm.

	d [mm]	d mini - maxi [mm]	L [mm]	ΔΔ [g]
177A.18F	1,8	19 - 60	180	175

Outside Circlip® pliers with fluorescent grips - 90° angled

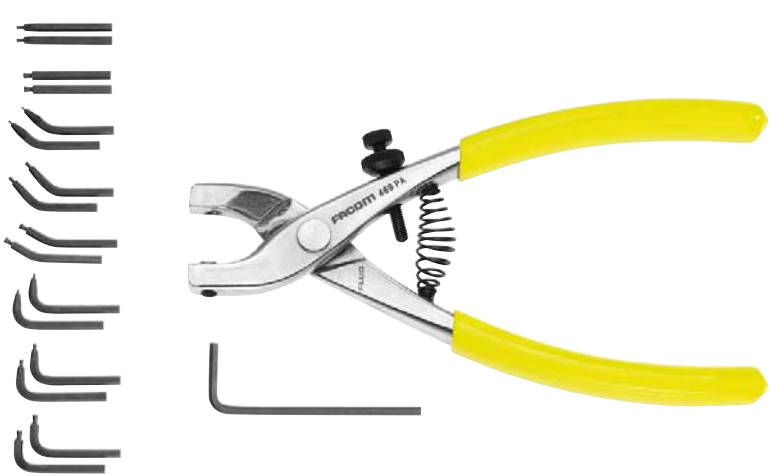


NF E 73-130, DIN 5254, ASME B107.500

- Detect the tool thanks to its fluorescence, activated by a lamp or UV neon light.
- For Circlips® 19 --> 60 mm.

	d [mm]	d mini - maxi [mm]	L [mm]	ΔΔ [g]
197A.18F	1,8	19 - 60	170	175

469F Inside Circlip® pliers with fluorescent grips

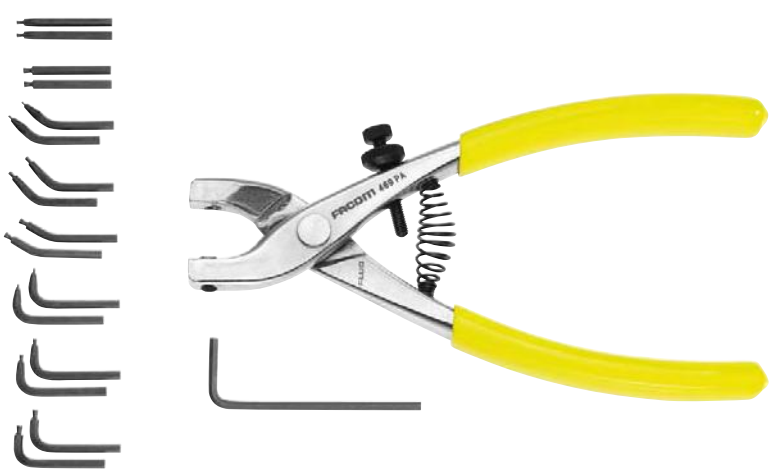


NF E 73-130DIN 5256, ASME B107.500

- Detect the tool thanks to its fluorescence, activated by a lamp or UV neon light.
- Interchangeable tips for a capacity of diam. 8 --> 63 mm.
- Thumbscrew position setting.
- Opening return spring.
- Finish: chrome finish, PVC grip.
- Supplied in a case with key and set of bits E1 - E2 - E3 - E5 - E6 - E8 - E9.

Weight: 160 g.

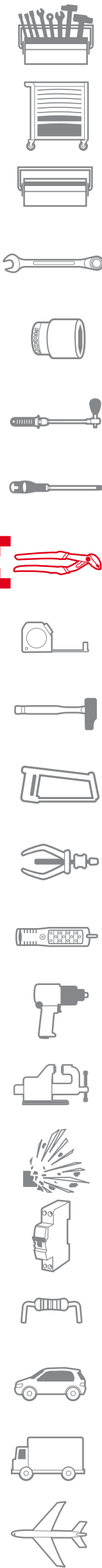
467FLUO Outside Circlip® pliers with fluorescent grips



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

- Detect the tool thanks to its fluorescence, activated by a lamp or UV neon light.
- Interchangeable tips for a capacity of diam. 8 --> 63 mm.
- Thumbscrew position setting.
- Opening return spring.
- Finish: chrome finish, PVC grip.
- Supplied in a case with key and set of bits E1 - E2 - E3 - E5 - E6 - E8 - E9.

Weight: 160 g.



Inside circlip® pliers

FACOM CIRCLIP® 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.

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.



Slim-line and accessibility

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



Productivity

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



Closing



Opening

INSIDE CIRCLIP® PLIERS

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

SAFETY

- Eye protection is recommended.



179A - Straight nose inside circlip® 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.

	d [mm]	d mini - maxi [mm]	L [mm]	$\Delta\Delta$ [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 circlip® pliers



NF E 73-130ASME 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.

➤	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	115

199A - 90° angled nose inside circlip® 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.

➤	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	215
199A.32	3,2	85 - 200	290	215

Outside circlip® pliers

OUTSIDE CIRCLIP® PLIERS

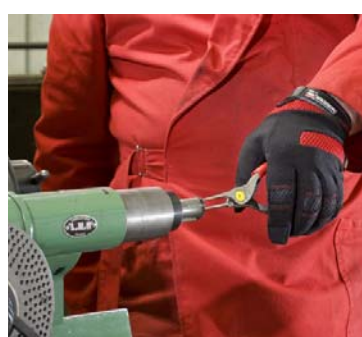
- Straight, 45° or 90° profiles.
- Chrome finish.

SAFETY

- Eye protection is recommended.



177A - Straight nose outside circlip® pliers

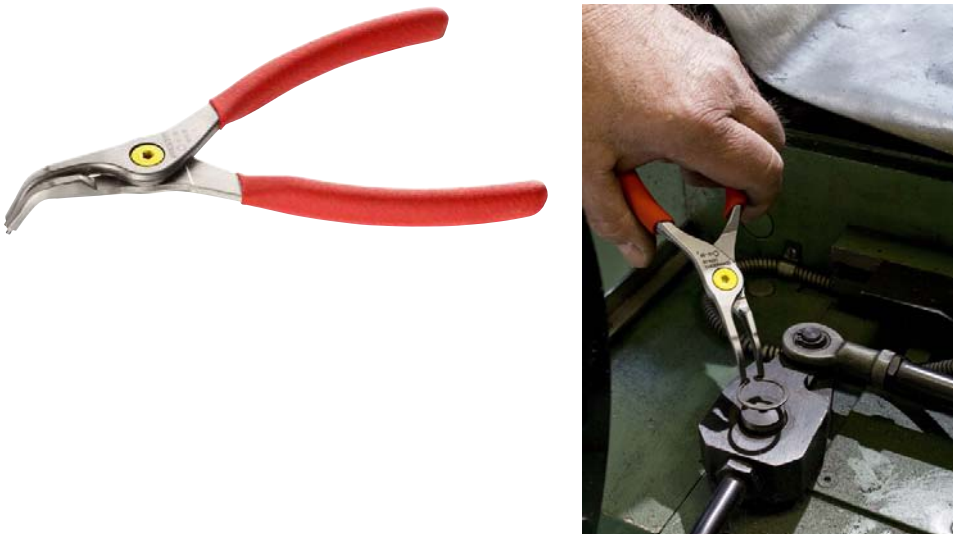


NF E 73-130, DIN 5254, ASME B107.500

- 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]
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

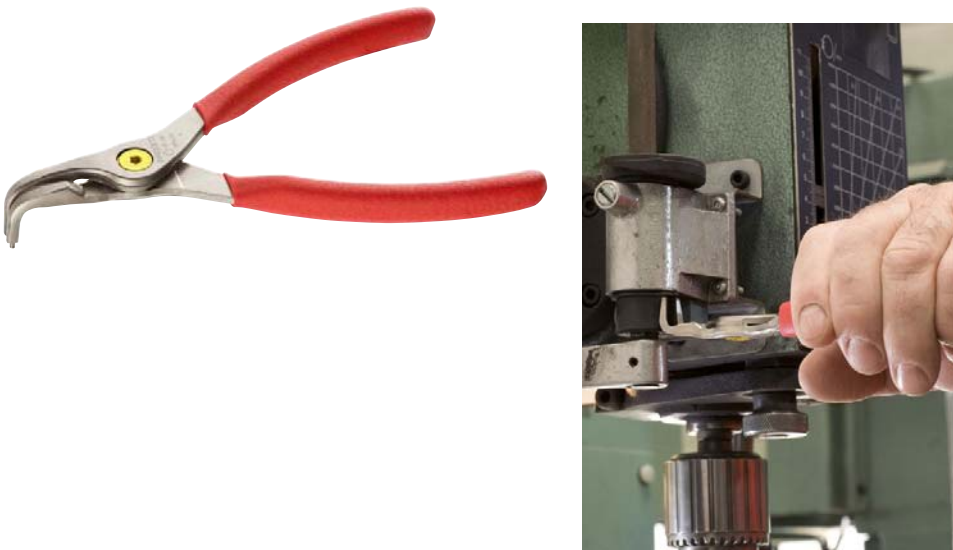
167A - 45° angled nose outside circlip® pliers



- 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 circlip® 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

PCJ4 Set of 4 straight and 90° angled nose circlip® 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.
- Weight: 860 g.

PCSNJ4 Set of 4 straight nose circlip® pliers - 10 to 60 mm

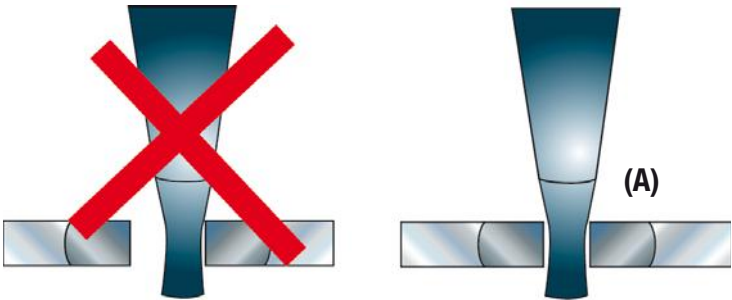


- Including:
 - 177A.13: Straight nose outside Circlip® pliers for Circlips® 10 --> 25 mm.
 - 177A.18: Straight nose outside Circlip® pliers for Circlips® 19 --> 60 mm.
 - 179A.13: Straight nose inside Circlip® pliers for Circlips® 12 --> 25 mm.
 - 179A.18: Straight nose inside Circlip® pliers for Circlips® 19 --> 60 mm.
- Weight: 740 g.

High-performance pliers

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®.



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.

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

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



- ASME B107.500**
- Interchangeable tip.
 - Rack holds circlips® compressed for easy fitting and removal (with release trigger).
 - Finish: chrome finish, red PVC grips.

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

490.SE - Spare tips for pliers 477 to 499



- Each reference includes 2 tips and 2 screws.

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



Position 1 for outside Circlips®.

Position 2 for inside Circlips®.

475A - Reversible inside and outside circlip® 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

475A.J1 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.
- Weight: 430 g.

Removable tip pliers

470 Inside and outside circlip® pliers



- Interchangeable tips for:
 - diam. 8 --> 63 mm, for inside circlips®.
 - diam. 3 --> 63 mm, for outside circlips®.
- Including:
 - 469.PA: Inside circlip® pliers.
 - 467.PA: Outside circlip® pliers.
 - 82H.2.5: Key.
 - Set of 18 removable tips.
 - Supplied in a plastic case.
- Weight: 1.50 kg.

469 Inside circlip® pliers



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

- 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.

Weight: 160 g.

467 Outside circlip® 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.

Weight: 160 g.

467.01AJ2 Spare tips



• For products Ref: 467 - 469 - 470.

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



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

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

Snap-ring pliers

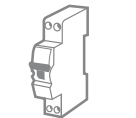
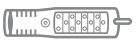
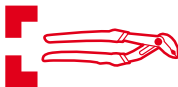
411A - Outside snap-ring pliers



ASME B107.500

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

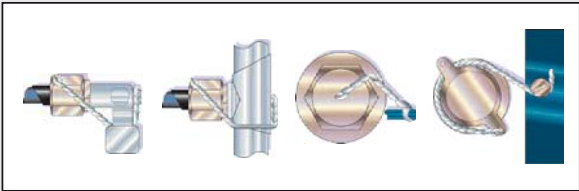
	d mini - maxi [mm]	L [mm]	[g]
411A.17	15 - 62	150	190
411A.20	60 - 160	190	275



FACOM LOCKING-WIRE PLIERS

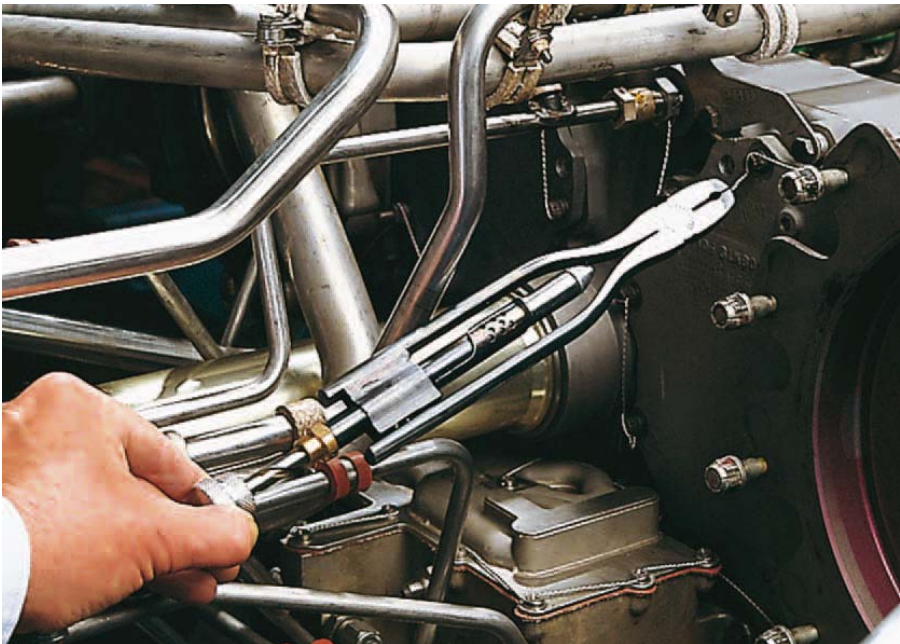
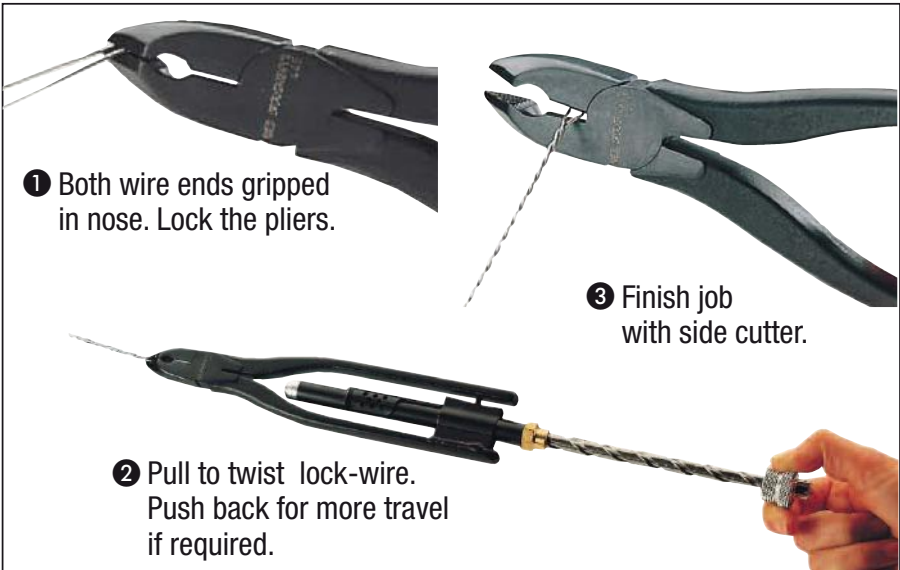
Fast twist in lock-wire securing assemblies subject to vibration.

- 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.

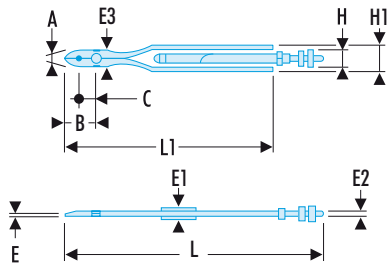


Automatic model

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



Short locking-wire pliers 8"

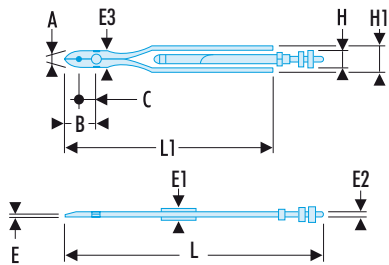


ASME B107.500

- "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

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

"T5" lock-grip pliers

T5 SERIES

LOCK-GRIP PLIERS

ERGONOMIC AND SAFE

SAFE, PRACTICAL AND ERGONOMIC

Articulated upper jaw for a clearer view of work pieces.

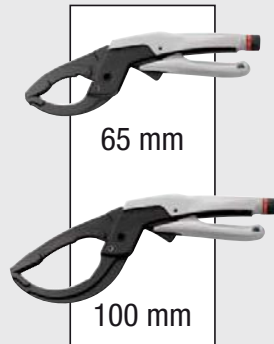
Thumbscrew jaw adjustment.

Totally enclosed mechanism and screw.

Smooth-action release trigger.

Multipurpose forged and hardened jaws. Capacity: 40 mm 65 mm 100 mm

Fixed lower jaw for resting on a workbench or damping in a vice.



Smooth, controlled release.



One-hand operation



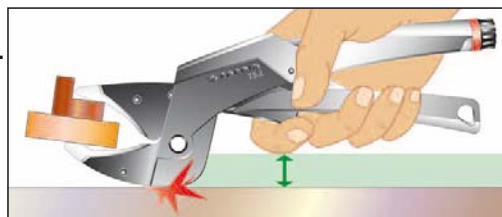
T5: INCREASED SAFETY

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

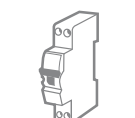
- The pliers clamp and release with one hand even when very tight.
- Leaves the other hand free to hold components.

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 reduce fatigue.



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.

	Open Position 0 maxi [mm]	Dimension [mm]/	ΔΔ [g]
T5.L	d. 40 mm	250 x 75 x 22	631
T5.L65	d. 65 mm	290 x 80 x 22	819

T5.1L Plastic-sheathed trigger-release lock-grip pliers



- 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.
- Weight: 565 g.

Large-capacity lock-grip pliers

SERIES 500

LOCK-GRIP PLIERS

"ORIGINAL 500" LOCK-GRIP PLIERS

LARGE CAPACITY LOCKS ON TO ANY SHAPE



The range of "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.

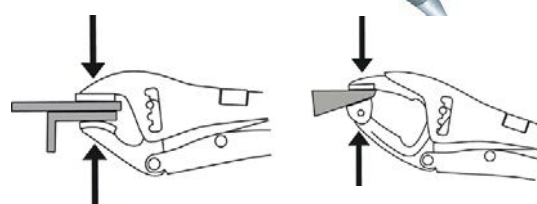
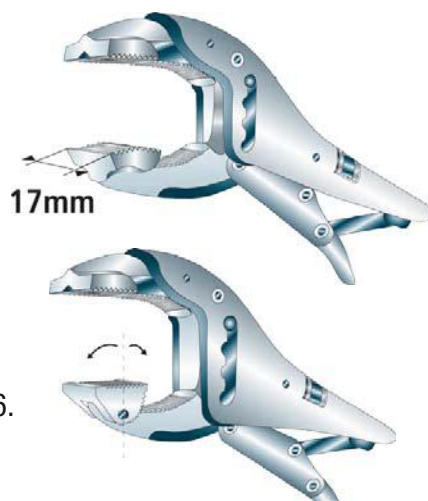


Jaws engineered for secure grip.

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

Hinged tip versions.

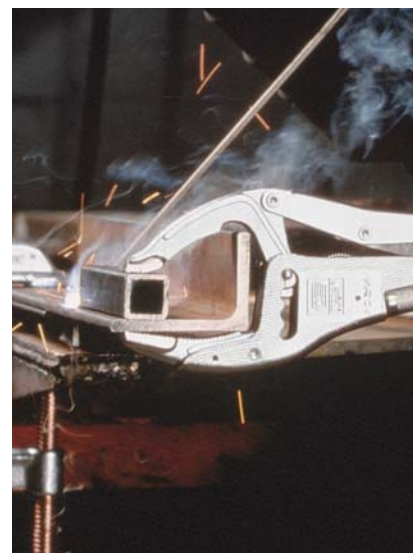
- To adapt to any grip configuration.
- Moving-tip options on model 506/516.



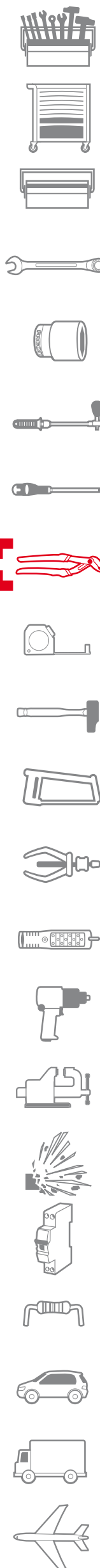
Round up to 135 mm



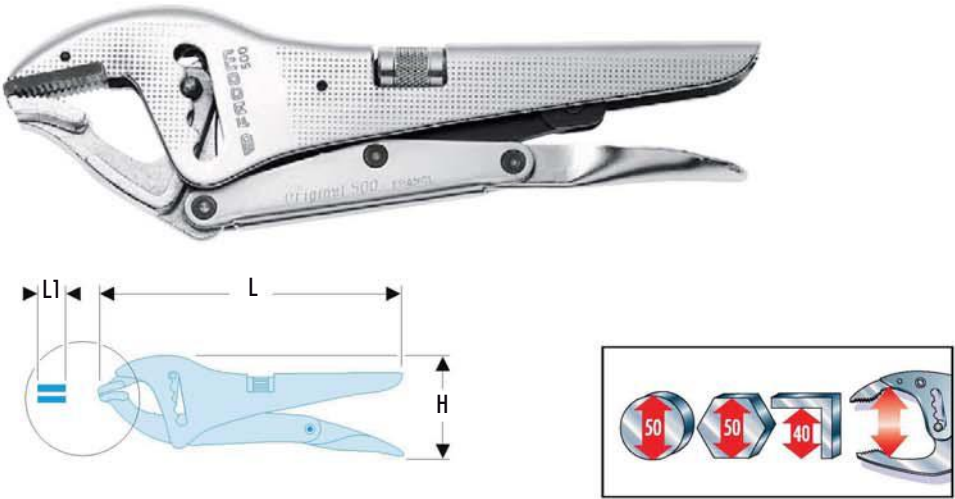
Hexagonal up to 125 mm



Angle section up to 70 mm



Short-nose lock-grip pliers



- ASME B107.500**
- 4-position slip joint system.
 - Nose width 17 mm.
 - Machined groove in upper jaw holds small round sections.
 - Finish: chromed.

	H [mm]	L [mm]	L1 [mm]	ΔΔ [g]
500	58	225	17	540

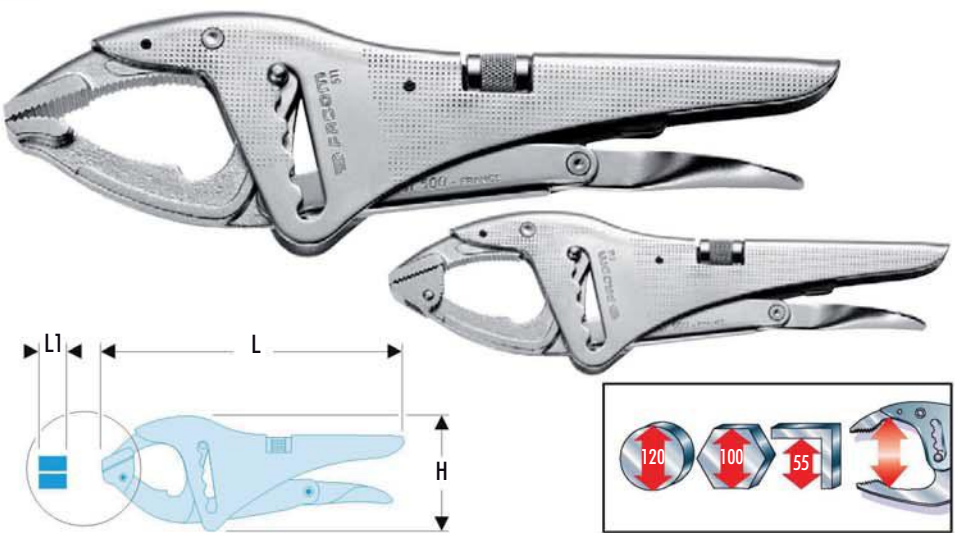
501-506 - Long-nose lock-grip pliers



- ASME B107.500**
- 4-position slip joint system.
 - Nose width 17 mm.
 - Machined groove in upper jaw holds small round sections.
 - 506 models: type 501 with hinged tip, adapts to all grip configurations.
 - Finish: chromed.
 - Weight: 620 g.

	H [mm]	L [mm]	L1 [mm]	ΔΔ [g]
501	63	250	17	620
506	63	250	17	640

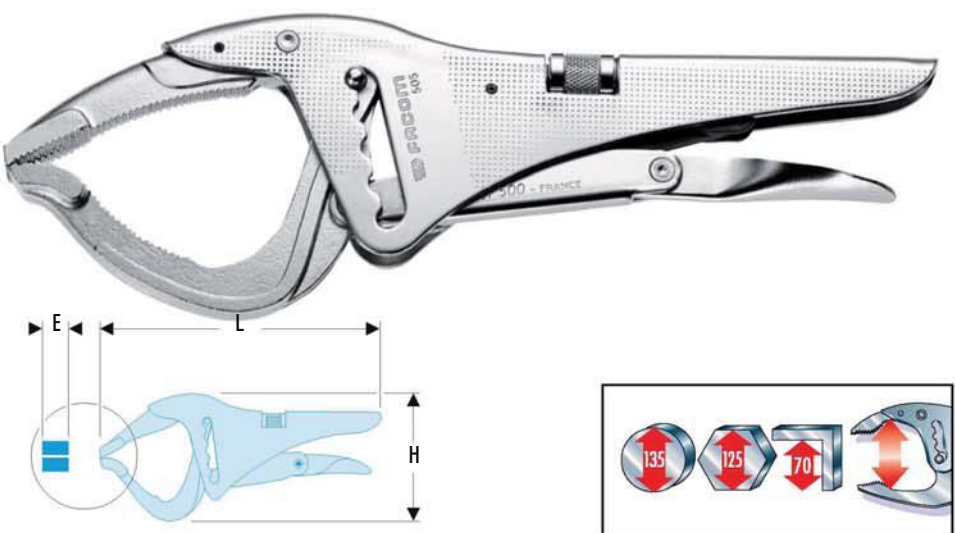
511-516 5-position slip joint large-capacity pliers



- ASME B107.500**
- 5-position slip joint for increased capacity.
 - Nose width 17 mm.
 - Machined groove in upper jaw holds small round sections.
 - 516 models: type 511 with hinged tip, adapts to all grip configurations.
 - Finish: chromed.
 - Weight: 680 g.

	H [mm]	L [mm]	L1 [mm]	ΔΔ [g]
511	79	250	17	680
516	79	250	17	695

5-position slip joint large-capacity pliers



- ASME B107.500**
- 5-position slip joint system, deep jaw.
 - Nose width 17 mm.
 - Machined groove in upper jaw holds small round sections.
 - Finish: chromed.

	H [mm]	L [mm]	L1 [mm]	ΔΔ [g]
505	89	270	17	720

SERIES 580

AUTOMATIC LOCK-GRIP PLIERS

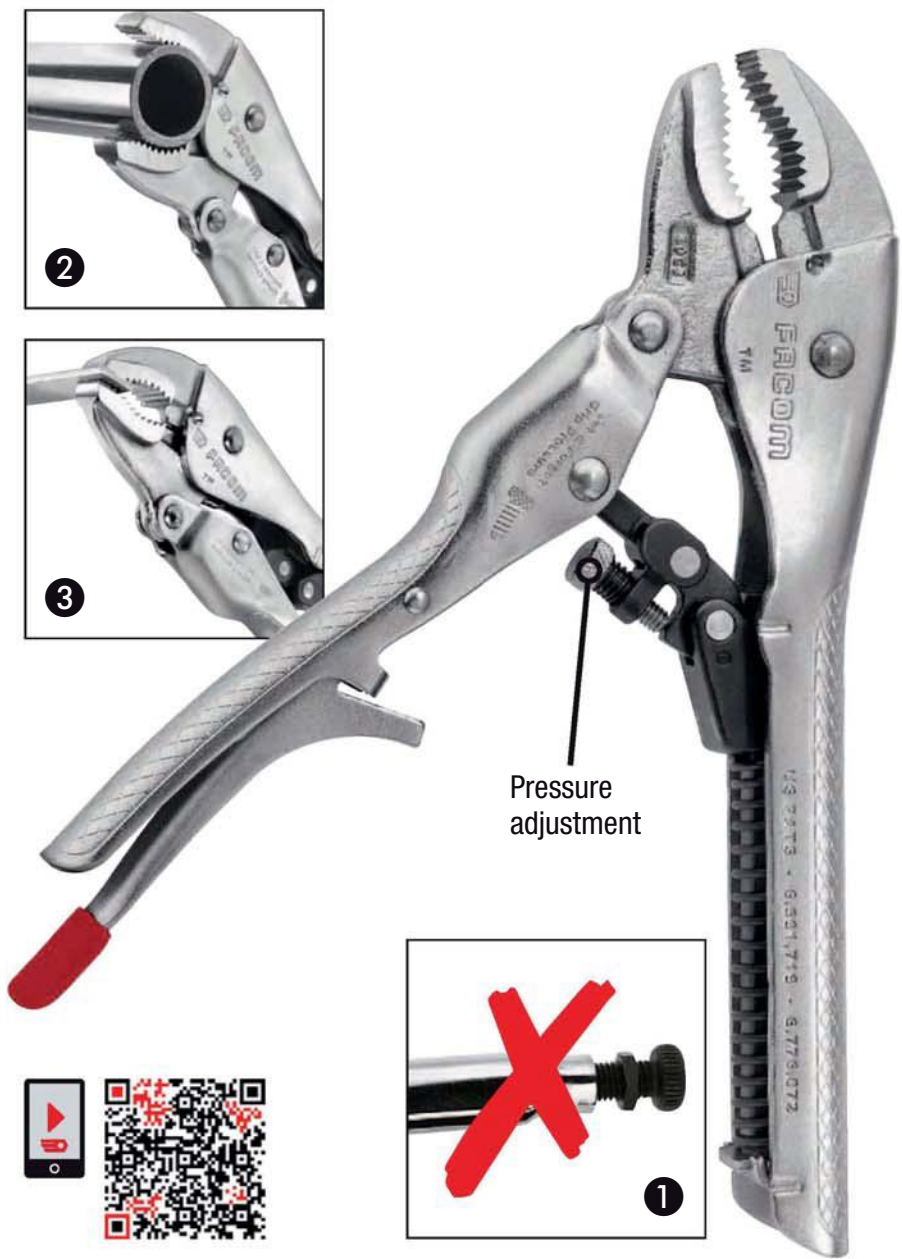
IDEAL FOR SAVING TIME AND FOR PRODUCTION WORK

No adjustment!

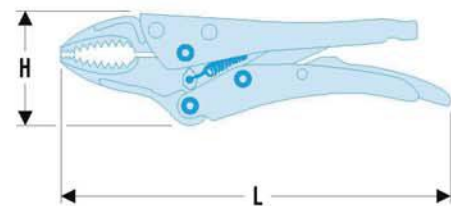
- 1 Just adjust the pressure no readjustment required.
- 2 The tool automatically adjusts from thick parts to thin and from thin parts to thick.

Patented automatic closing mechanism.

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



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

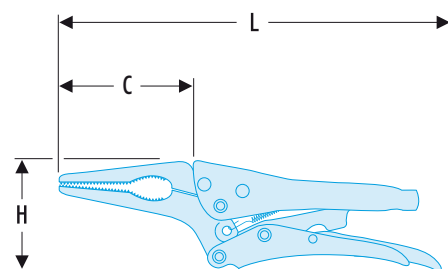


ASME B107.500

- 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

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	270

Compact lock-grip pliers

SERIES 507

507 SERIES COMPACT LOCK-GRIP PLIERS

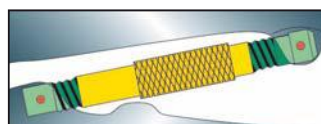
The “compact 507” range offers two major benefits

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.



507A Short-nose compact lock-grip pliers



ASME B107.500

- 4-position slip joint system.
- Fine adjustment with the unique Facom knurl system.
- Forged jaws.
- Nose width 9.6 mm.
- Length: 200 mm.
- Height: 42 mm.
- Finish: chromed.

Weight: 330 g.

- 4-position slip joint system.
- Fine adjustment with the unique Facom knurl system.
- Forged jaws.
- Nose width 9.6 mm.
- Length: 215 mm.
- Finish: chromed.

Weight: 370 g.

A diagram of a pair of pliers. The vertical dimension of the jaws is labeled H . The horizontal dimension from the tip of the jaws to the center of the fulcrum is labeled L .

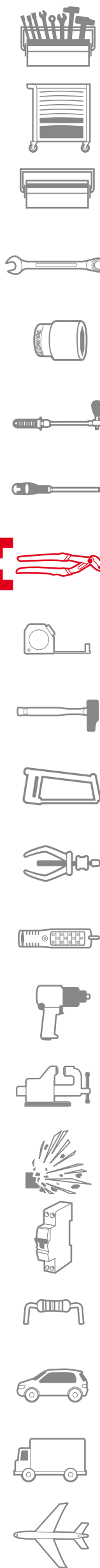
- Slim jaws.
- Hand-screw adjustment.
- Finish: black cataphoretic finish.

	A [mm]	B [mm]	C [mm]	H [mm]	L [mm]	$\Delta\Delta$ [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

A diagram of a hand tool, possibly a plier or a similar gripping device, shown in profile. The tool is light blue. Three dimensions are indicated with arrows and labels: L is the total length of the tool; C is the distance from the handle to the jaws; and H is the height of the handle at the grip end.

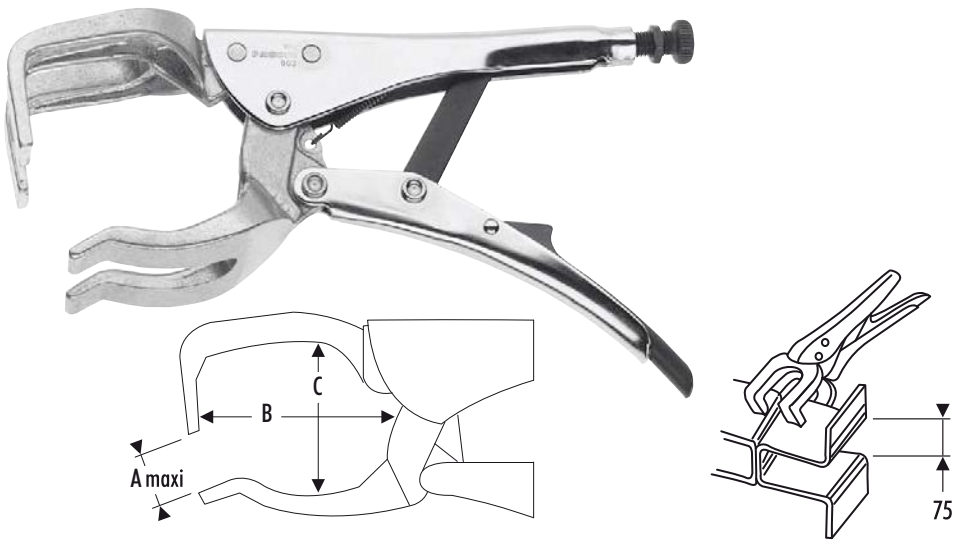
- For reaching and gripping components in confined spaces.
- Hand-screw adjustment.
- Finish: chromed.

	A maxi [mm]	C [mm]	H [mm]	L [mm]
517.6	55	50	48	165
517.10	70	80	60	235



"Metalworking" lock-grip pliers

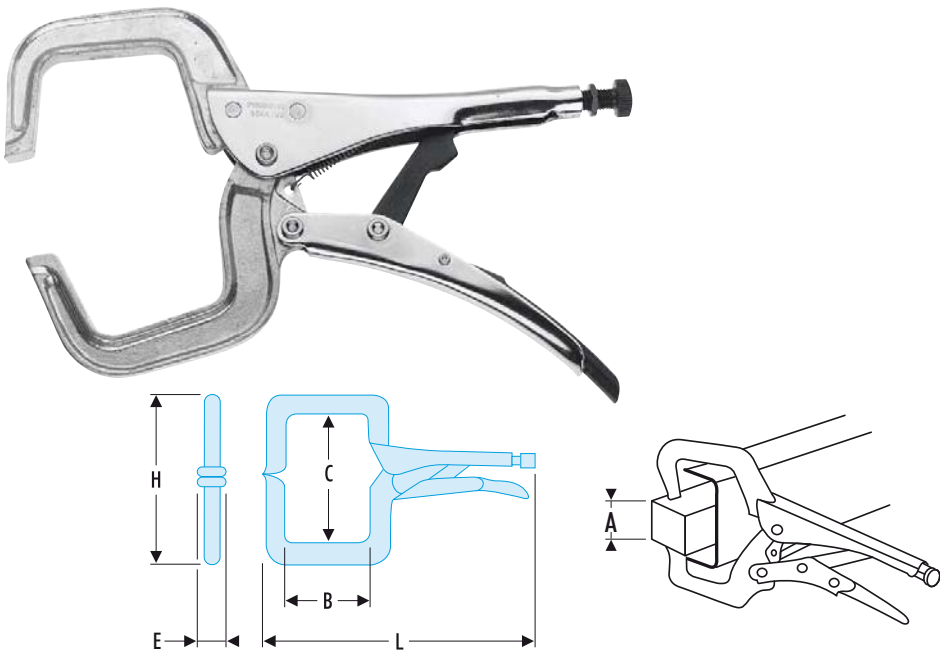
Arc-welding lock-grip pliers



- 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: chromed.

	A max [mm]	B [mm]	C [mm]	$\Delta\Delta$ [g]
502A	75	65	50	735

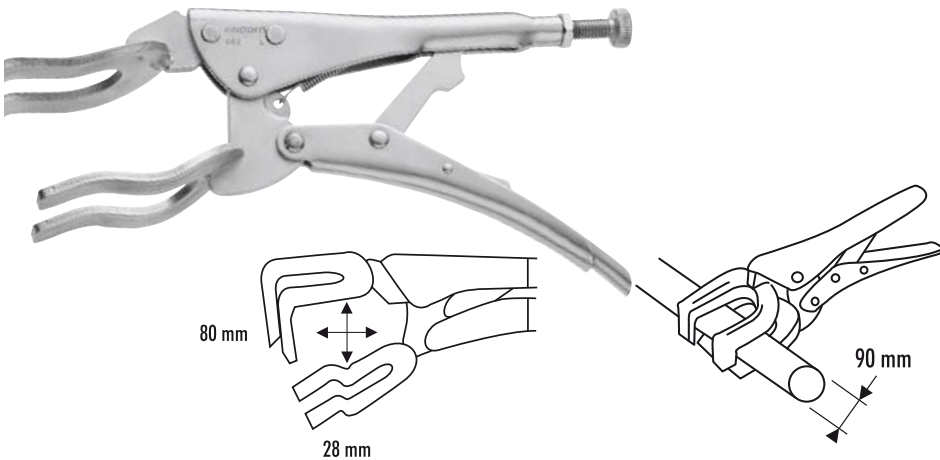
504A - "C-clamp" arc-welding lock-grip pliers



- ASME B107.500**
- Light alloy spatter-proof jaws.
 - Steel body.
 - Secure clamp for welding shaped or angled sections, and channels.
 - Hand-screw adjustment.
 - Finish: chromed.

	A max [mm]	B [mm]	C [mm]	E [mm]	H [mm]	L [mm]
504A.100	80	65	100	12	147	280
504A.180	125	120	180	20	240	350

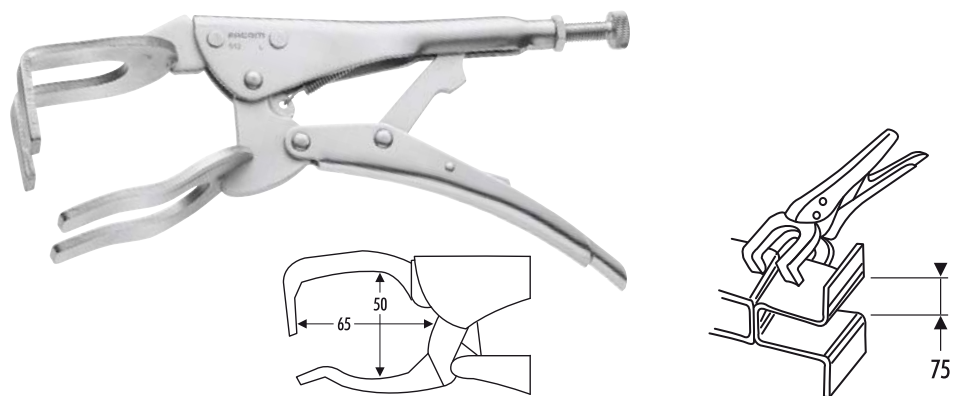
Lock-grip pliers for round sections



- ASME B107.500**
- Secure clamping of round sections.
 - Pressed-steel jaws and body.
 - Hand-screw adjustment.
 - Dimensions: 280 x 85 x 68 mm.
 - Finish: chromed.

	A max [mm]	B [mm]	C [mm]	$\Delta\Delta$ [g]
503	90	80	28	945

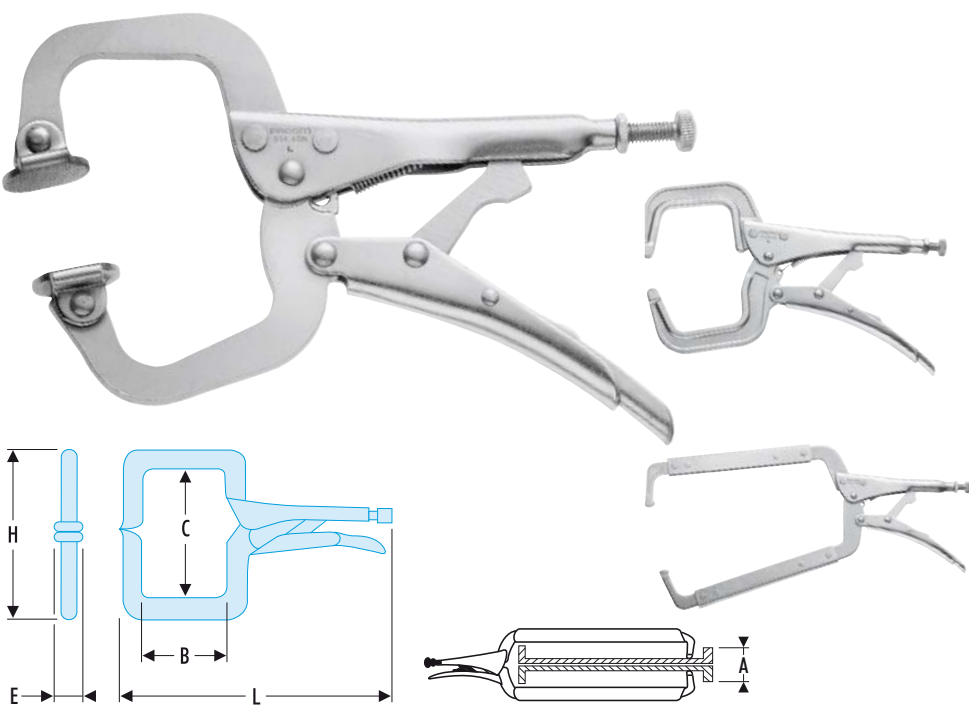
Lock-grip pliers for angle sections



- 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: chromed.

	A max [mm]	B [mm]	C [mm]	$\Delta\Delta$ [g]
512	75	65	50	953

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

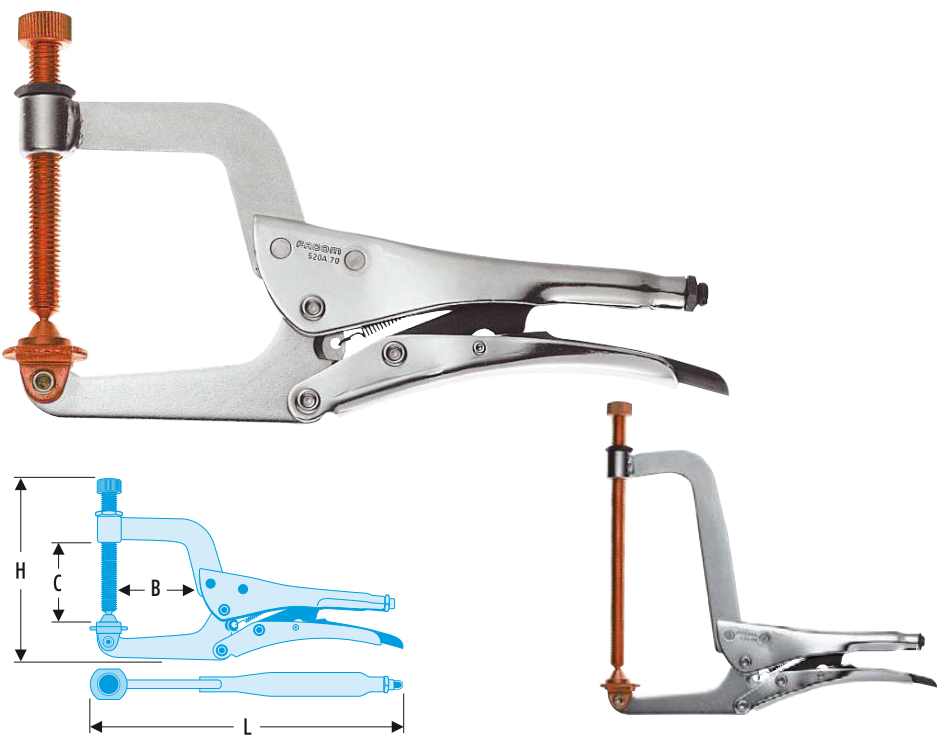


- ASME B107.500
- Special forged-steel jaws for secure clamping of angle sections and deep channels
 - Pressed-steel body.
 - "R" models have hinged shoes at their tips.
 - Hand-screw adjustment.
 - Finish: chromed.

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

Bar clamp lock-grip pliers

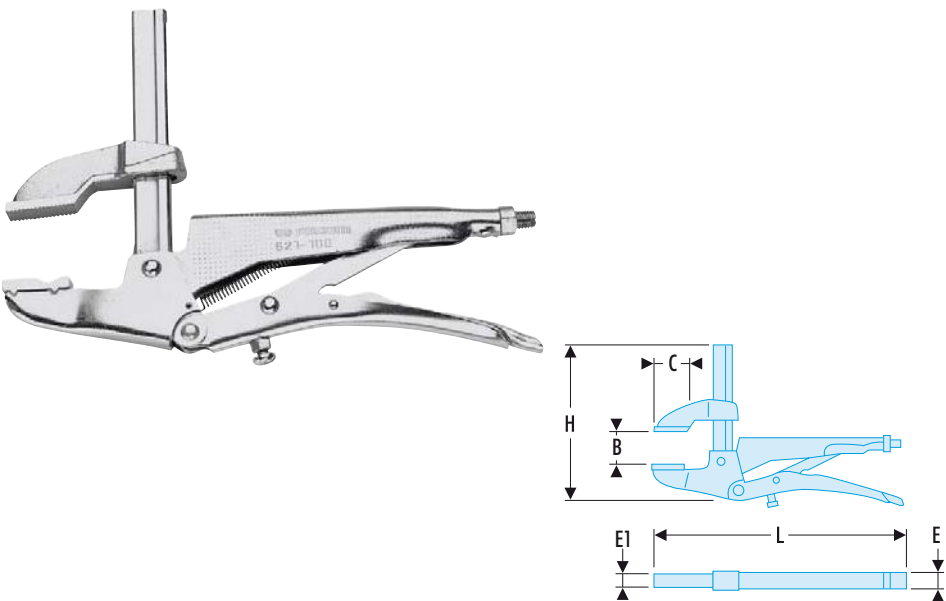
520A - Lock-grip G-clamps



- ASME B107.500
- Coppered screw with swivel shoe.
 - Fine setting with locknut.
 - Finish: chromed.

	B [mm]	C [mm]	H [mm]	L [mm]	ΔΔ [kg]
520A.70	70	70	165	280	1,020
520A.100	70	100	196	280	1,095
520A.170	70	170	270	280	1,250

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: chromed.

	B [mm]	C [mm]	E [mm]	E1 [mm]	H [mm]	L [mm]	ΔΔ [kg]
521.100	100	65	28	15	190	260	1,020
521.150	150	65	28	15	240	260	1,110
521.200	200	65	28	15	290	260	1,180

Heavy-duty end nippers

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.

Min.

Very long lever arm

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

Heavy-duty end nippers

491 - End nippers

NF ISO 5748, ISO 5748, DIN ISO 5748

- Protruding cutting edges, for soft and hard wire (max. 160 kg/mm²).
- Offset pivot for maximum cutting power.
- 60/62 HRc high-frequency hardened cutting edges for long life.
- Finish: burnished, polished head, PVC grips.

	B [mm]	C [mm]	E [mm]	H [mm]	L [mm]	ΔΔ [g]
491.18G	39	11,5	14,6	32	180	300
491.20G	39	11,5	14,6	32	200	400
491.22G	43	12,7	14,6	34	220	450

For bolt croppers see p. 612

For PVC grip pliers see p. 484

PLASTICS CUTTERS

SPECIAL CUTTERS TO REMOVE TAILS AND BURRS FROM INJECTION-MOULDED COMPONENTS.

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

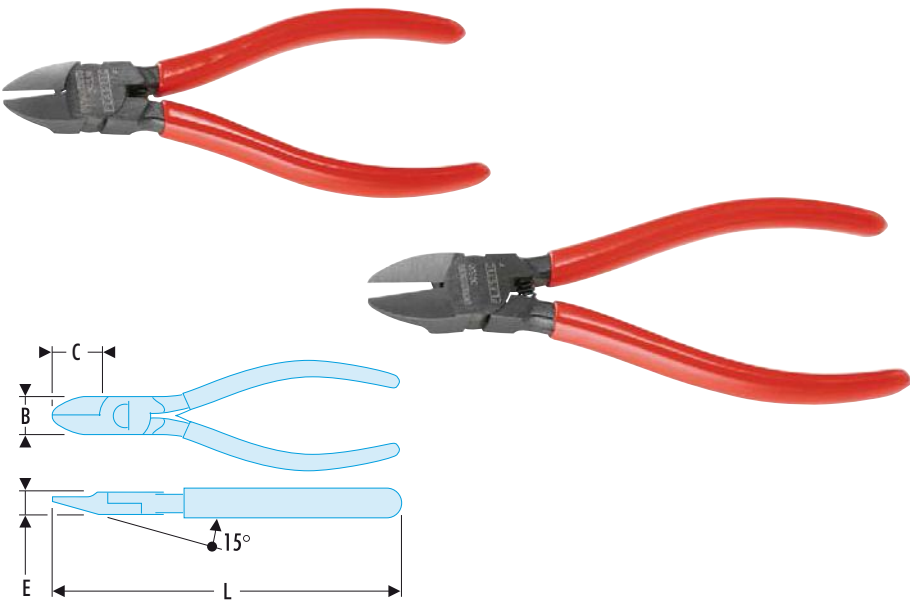


Flush cut



Plastics cutters

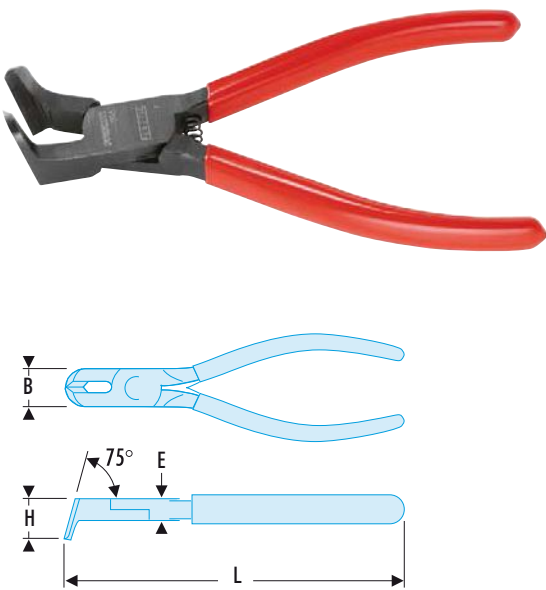
395 - Diagonal plastics cutters



- 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



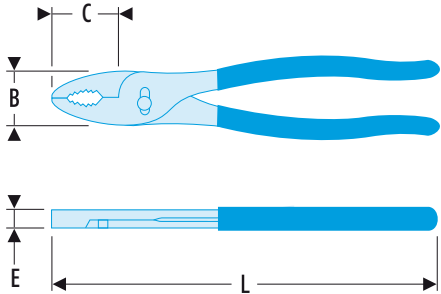
- 75° cutting edges.
- Opening return spring.
- Finish: polished burnish, red PVC grips.

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



Motorists pliers

186 - Motorists pliers



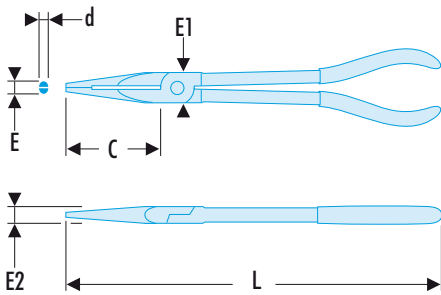
NF ISO 9343, ISO 9343, DIN ISO 9343, ASME B107.500

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

	B [mm]	C [mm]	E [mm]	E1 [mm]	L [mm]
186.7CPG	29	31	9,0	6,5	166
186.8CPG	31	35	10,5	7,5	204
186.10CPG	37	45	11,5	8,5	250

Extra-long reach half-round nose pliers

Extra-long reach half-round nose pliers



- For reaching components in confined spaces.
- Serrated jaws.
- Finish: polished, red PVC grips.

	C [mm]	d [mm]	E [mm]	E1 [mm]	E2 [mm]	L [mm]	ΔΔ [g]
185.28EG	73	3,5	5	17	10	295	304

■ 184.J2 "Mechanics" set



- Comprising 4 tools:
 - 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 N.38A-4B, dim. (L. x W. x H.): 260 x 100 x 50 mm.
- Weight: 985 g.

■ 184.J3CPE "Maintenance" set



- Comprising 12 tools:
 - Locking multigrip pliers 181A.25CPE.
 - Combination pliers 187.18CPE.
 - Diagonal cutters 192.18CPE.
 - End cutters 190.20CPE.
 - 1 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.
- Supplied as a roll set N.38A-12C.
- Weight: 2.200 kg

■ 184.J4CPE "Electrical fitters" set



- Comprising 10 tools:
 - 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, 1,000 V insulated A2.5X75VE - A3.5X100VE - A5.5X125VE.
 - Adjustable wrench 113A.8C.
- Supplied as a roll set N.38A-10C.
- Weight: 1.700 kg.

184.J5VE "Electricians" set



- 1,000V insulated tools to EN 60900900.
- Comprising 6 tools:
 - Diagonal cutters 192.16VE.
 - Combination pliers 187.18VE.
 - Half-round nose pliers 185.20VE.
 - 2 screwdrivers for slotted heads A.VE (4x100 - 5.5x125).
 - 1 screwdriver for Pozidriv® heads AD1X100VE.
- Supplied as a roll set N.38A-6F.

Weight: 1.100 kg.

CPE.3 3-piece CPE plier set



- Including:
 - Locking multigrip pliers 181A.25CPE.
 - Diagonal cutters 192.16CPE.
 - Half-round nose pliers 185.20CPE.
- Supplied in a cardboard box.

Weight: 790 g.

CPE.4 4-piece CPE plier set



- Including:
 - Locking multigrip pliers 181A.25CPE.
 - Diagonal cutters 192.16CPE.
 - Half-round nose pliers 185.20CPE.
 - Combination pliers 187.18CPE.
- Supplied in a cardboard box.

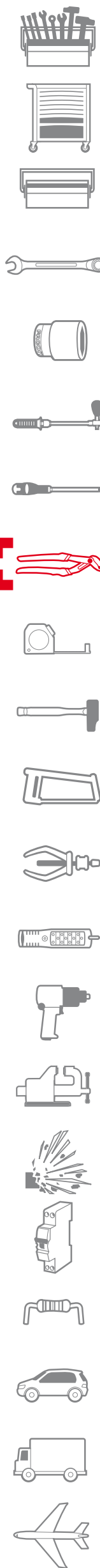
Weight: 1.020 kg.

VE.3 3-piece set of 1,000 Volt pliers



- 1,000V insulated tools to EN 60900900.
- Including:
 - Multigrip pliers 180.VE.
 - Diagonal cutters 391.16VE.
 - Angled half-round nose pliers 195.20VE.
- Supplied in a cardboard box.

Weight: 790 g.



▣ **MODM.CPE1** Foam 4-piece plier set



- Including:
 - Diagonal cutters 192.16CPE.
 - Half-round nose pliers 185.20CPE.
 - Locking twin slip-joint multigrip pliers 181A.25CPE.
 - Large-capacity lock-grip pliers 501.
 - PM.MODCPE1 foam tray.
- Weight: 1.480 kg.

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



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

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



- Including:
 - Half-round nose pliers 185.20TE.
 - Combination pliers 187.18TE.
 - Diagonal cutters 192.16TE, .
 - Tray PL.627.
- Weight: 942 g.

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



- 1,000V insulated tools to EN 60900900.
 - Including:
 - Slip-joint locking multigrip pliers 180.VE.
 - Diagonal cutters 391.16VE.
 - Standard wire strippers 194.17VE.
 - Tray PL.622.
- Weight: 950 g.

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



- Including:
 - Multigrip pliers 180.CPE.
 - Multigrip lock-grip pliers T5.L.
 - Tray PL.330.
- Weight: 1.158 kg.

▣ **MOD.PR5** PR5 - 2-piece adjustable plier module

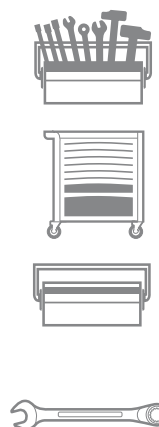


- Including:
 - Multigrip pliers 181EF.25CPE.
 - Multigrip lock-grip pliers T5.L.
 - Tray PL.330.
- Weight: 1.158 kg.

MOD.PR7 PR7 - 2-piece adjustable plier module



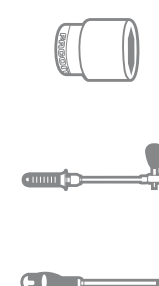
- Including:
 - Multigrip pliers 181EF.25CPE.
 - Short-nose lock-grip pliers 500.
 - Tray PL.330.
- Weight: 1.094 kg.



MOD.PR8 PR8 - 2-piece adjustable plier module



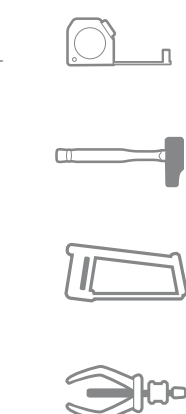
- Including:
 - Multigrip pliers 180.CPE.
 - Short-nose lock-grip pliers 500.
 - Tray PL.330.
- Weight: 1.094 kg.



MOD.PR9 PR9 - 2-piece adjustable plier module



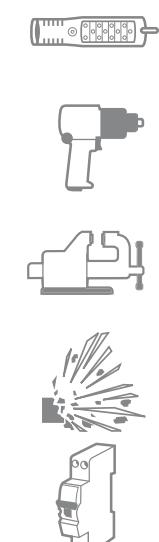
- Including:
 - Locking multigrip pliers 181A.25CPE.
 - Long-nose lock-grip pliers 501.
 - Tray PL.330.
- Weight: 1.094 kg.



MOD.PR11 PR11 - 2-piece adjustable plier module



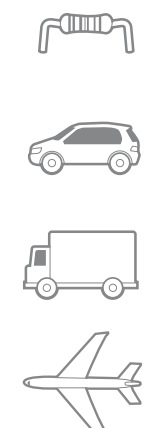
- Including:
 - Locking multigrip pliers 181A.25CPE.
 - Multigrip lock-grip pliers T5.L.
 - Tray PL.330.
- Weight: 1.160 kg.



MOD.PR12 PR12 - 2-piece adjustable plier module



- Including:
 - Locking multigrip pliers 181A.25CPE.
 - Angled nose lock-grip pliers 580.10.
 - Tray PL.330.
- Weight: 1.160 kg.



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