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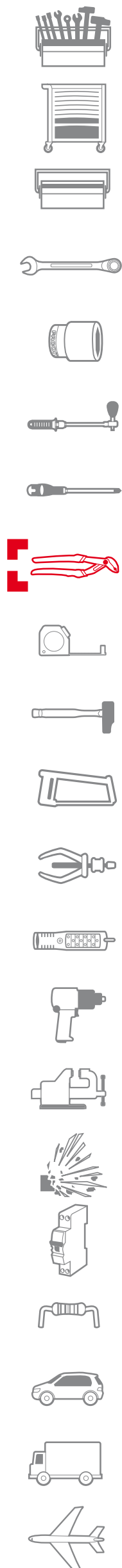
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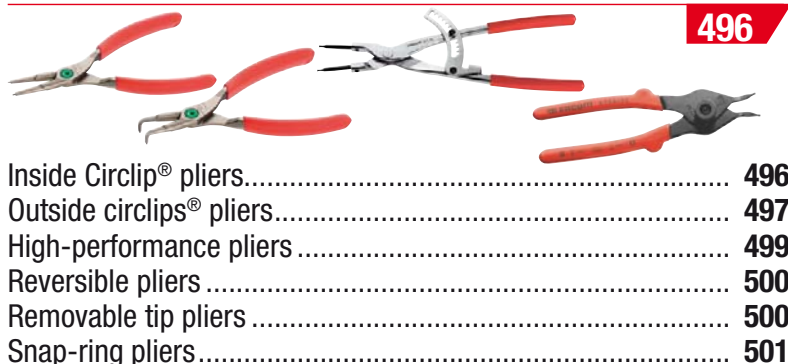
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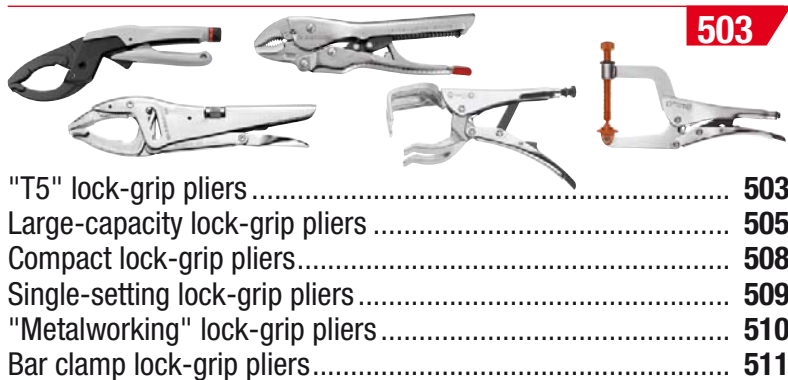
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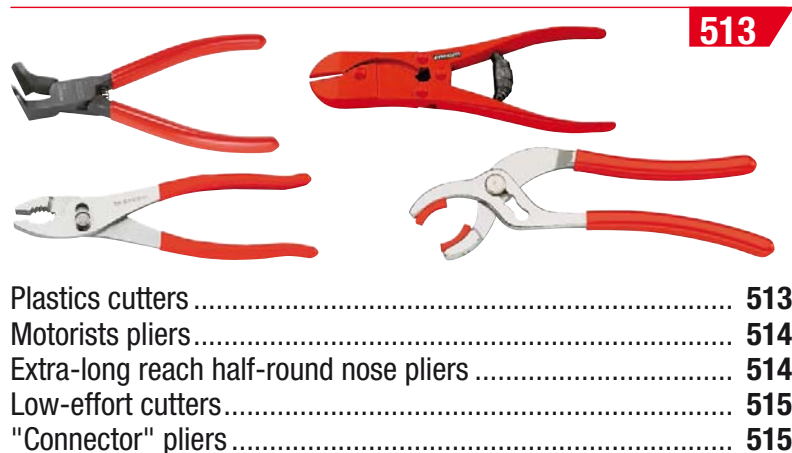
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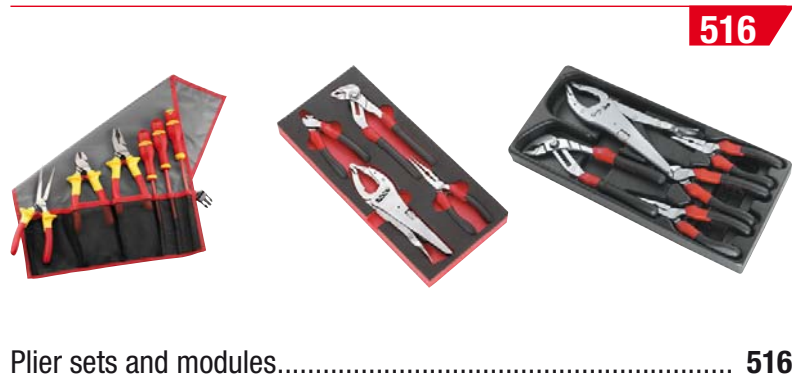
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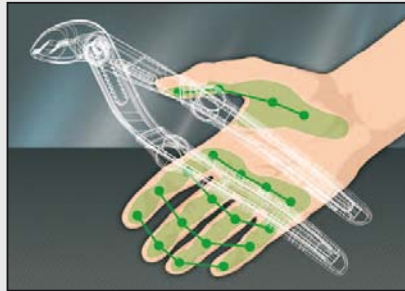


# MULTIGRIP PLIERS

## 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.

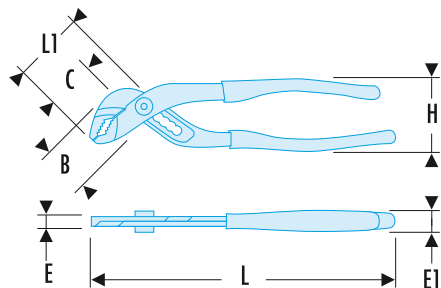


- **G version:**- Varnished.- Ergonomic grips.



181EF version: long nose

## 181A - Locking twin slip-joint multigrip pliers

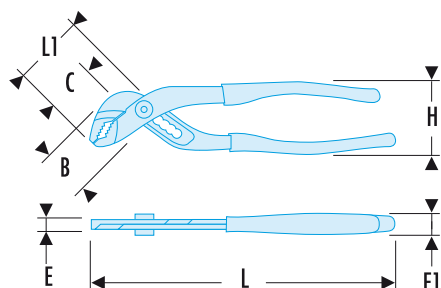


NF ISO 8976, ISO 8976, DIN ISO 8976, ASME B107.500

- 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]
<b>181A.18CPE</b>	22	24	7,5	20,0	185	48	36	36	230
<b>181A.25CPE</b>	28	28	7,5	22,5	245	54	41	42	360
<b>181A.18G</b>	22	24	7,5	20,0	185	48	36	36	225
<b>181A.25G</b>	28	28	7,5	19,0	245	54	41	42	350
<b>181A.30G</b>	35	33	9,0	22,5	300	73	46	49	680

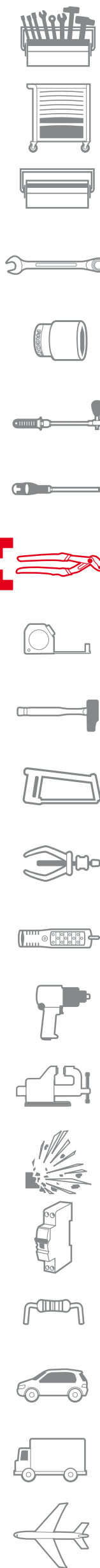
## 181EF- Locking twin slip-joint multigrip pliers



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]
<b>181EF.25CPE</b>	25	37,5	7,5	22,5	256	63	41	42	350
<b>181EF.25G</b>	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.



### 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]
<b>180</b>	30	30	35	8	14	250	58	320
<b>180.CPE</b>	30	30	35	8	22	250	58	360
<b>180.VE</b>	30	30	35	8	22	250	58	360

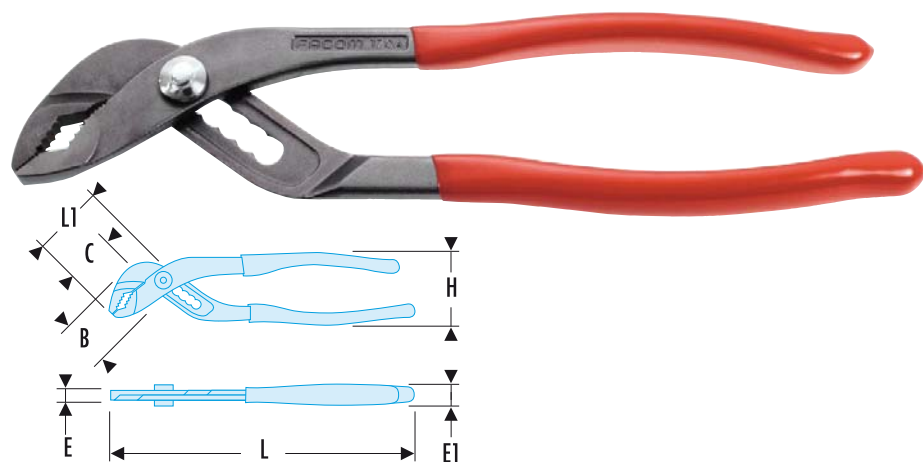
## SLIP-JOINT MULTIGRIP PLIERS

### SELF-TIGHTENING PLIERS

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



### Standard multigrip pliers

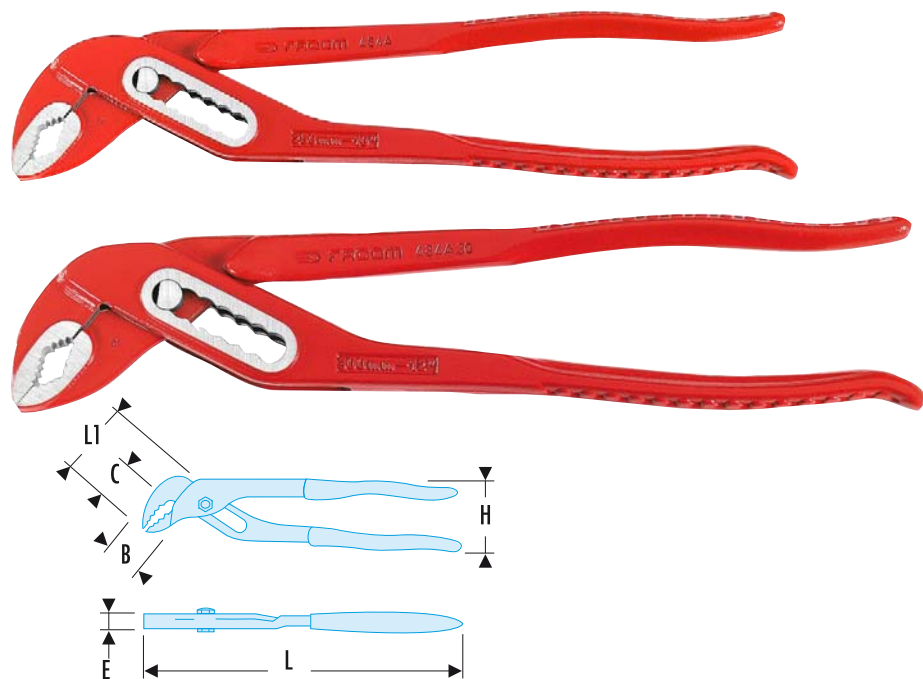


NF ISO 8976, ISO 8976, DIN ISO 8976, ASME B107.500

- 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]
<b>170A</b>	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.

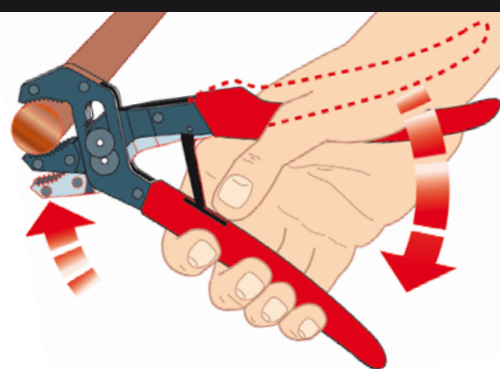
	A	B	C	E	H	L	L1	ΔΔ
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[g]
<b>484A</b>	33	33	38	7,0	50	240	60	345
<b>484A.30</b>	38	38	40	9,5	52	300	66	560

### Automatic multigrip pliers

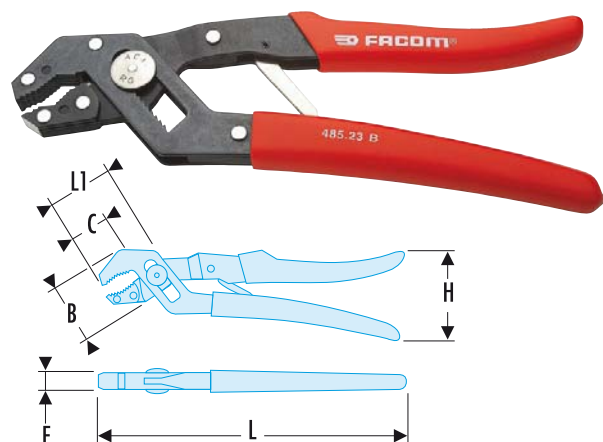
#### SELF-ADJUSTING MULTIGRIP PLIERS

##### FAST ADJUSTMENT

- Instant automatic setting with one hand while clamping.

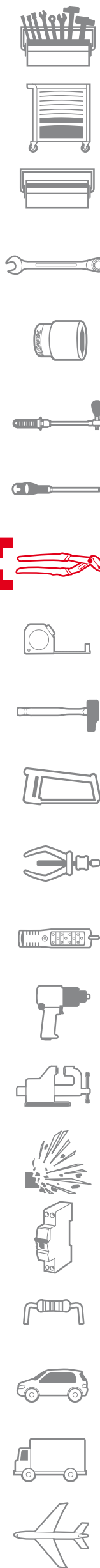


### 485 - Automatic multigrip pliers



- 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.

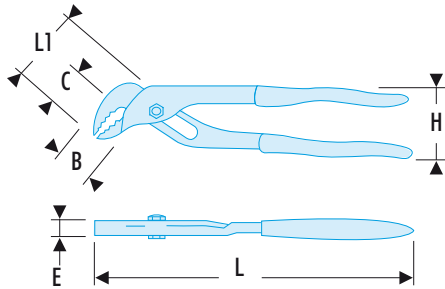
	A	B	C	E	H	L	L1	ΔΔ
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[g]
<b>485.17</b>	28	28	23	7	42	170	42	150
<b>485.23</b>	40	40	30	10	70	230	57	380





## Standard multigrip pliers

### ■ "Mammoth" multigrip pliers



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

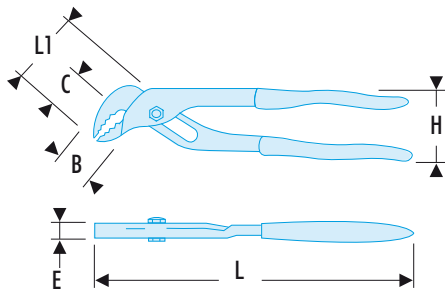
- Powerful, two-handed use ideal for heavy engineering and farm machinery.
- Forged and hardened to 48 HRc.
- Thick-gauge jaws withstand torsion.
- 7 positions.
- Capacity: 58 mm.
- Finish: chromed, polished tips.

Spare pivot pin: 182.SE.

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

## Notch-joint multigrip pliers

### ■ Notch-joint multigrip pliers

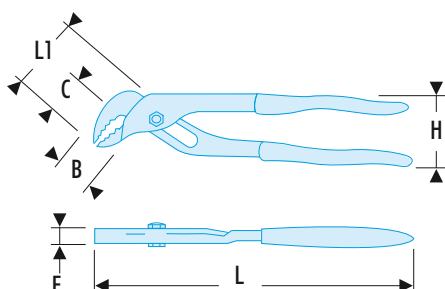


#### NF ISO 8976, ISO 8976, DIN ISO 8976, ASME B107.500

- 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]
<b>480.ECG</b>	35	30	9,5	60	250	55	320

### ■ 482 - Notch-joint multigrip pliers

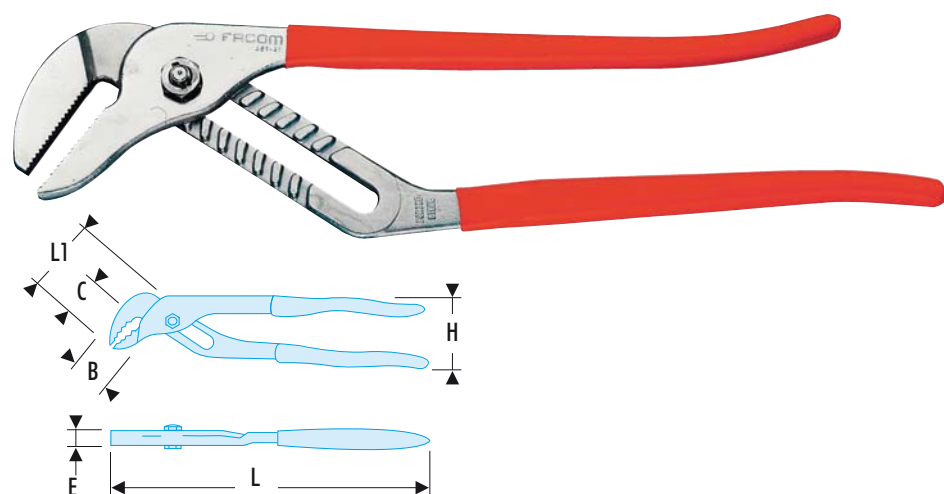


#### NF ISO 8976, ISO 8976, DIN ISO 8976, ASME B107.500

- 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]
<b>482.CPE</b>	35	35	30	9,5	60	255	55	365
<b>482.EG</b>	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]
<b>481.40</b>	56	50	14	102	412	90	1,10

### Cutting pliers

#### PRECISION CUTTERS

#### 3 TYPES OF CUT:

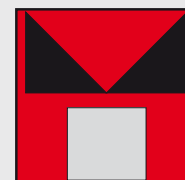
**AXIAL**  
Hard cutting edges for all materials.



**SEMI-FLUSH**  
Clean cut in semi-hard materials.

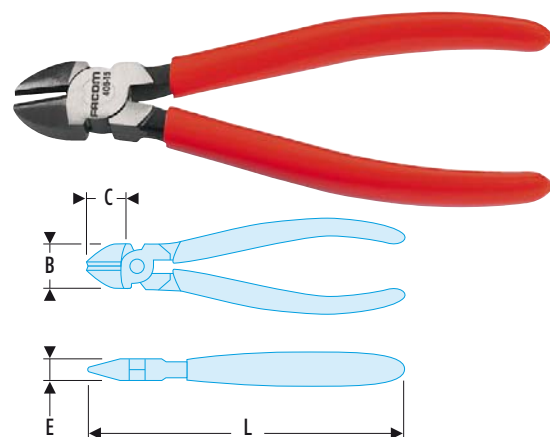


**FLUSH**  
Smooth burr-free finish.



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

### ■ "Compact" diagonal cutters

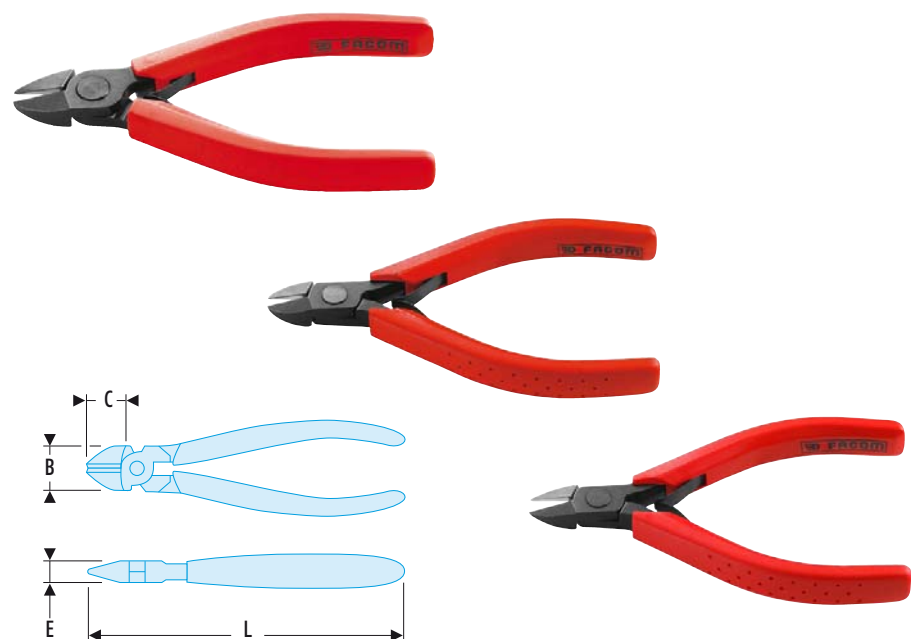


NF ISO 5749, ISO 5749, DIN ISO 5749, ASME B107.500

- Capacity:
  - Hard wire 160 kg/mm<sup>2</sup>: diameter 1.6 mm.
  - Semi-hard wire 100 kg/mm<sup>2</sup>: diameter 1.8 mm.
- Finish: varnished finish, red PVC grips.

➤	B [mm]	C [mm]	E [mm]	L [mm]	ΔΔ [g]
<b>405.15</b>	20	17	11	160	195

### ■ Diagonal cutters



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

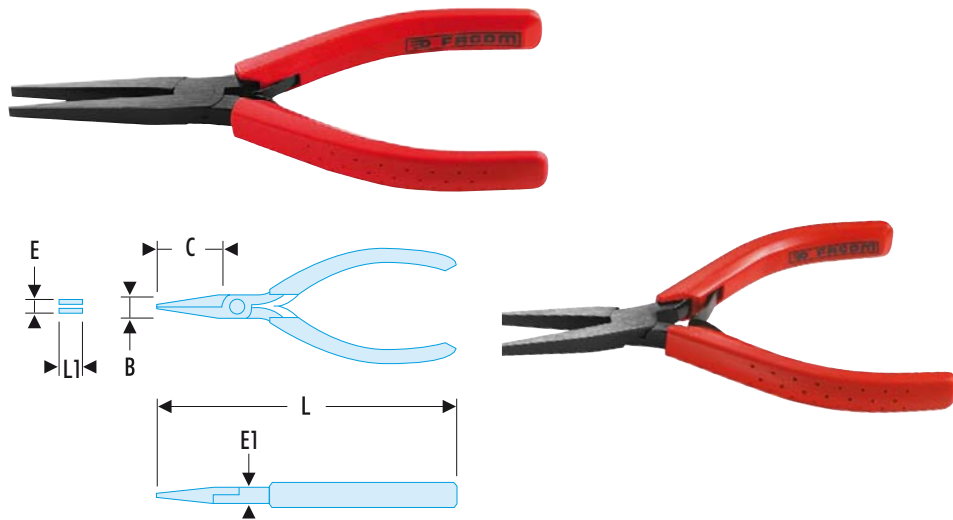
- 405: Axial cut.
- 416 - 435: Semi-flush cut, slim nose.
- 425: Flush cut, nose extended 13 mm.
- Finish: Matt burnished finish, red grips - return spring.

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



## Flat-nose pliers

### 401-421 - Flat nose pliers



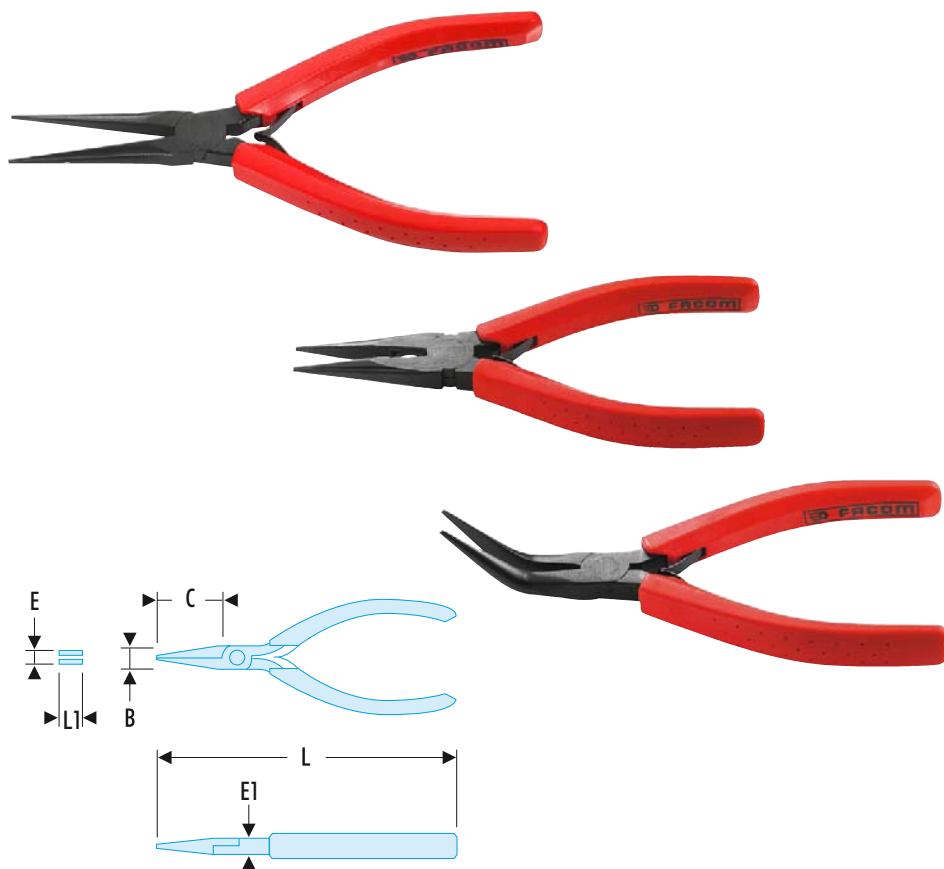
NF ISO 9655, ISO 9655, DIN ISO 9655, ASME B107.500

- 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]
<b>401</b>	48	14	5	1	160	8	80
<b>421</b>	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/mm<sup>2</sup>).
- 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]
<b>402</b>	48	14	14	1,5	160	8	76
<b>442</b>	42	14	14	3,8	150	8	88
<b>403</b>	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 mm<sup>2</sup>.
  - Length: 130 mm.
  - Finish: burnished, PVC grip.
- Weight: 70 g.

Diagonal cutters

# FACOM CUTTING PLIERS

## HIGH PERFORMANCE !

FACOM'S CUTTING PLIERS ARE DESIGNED TO MEET THE 3 MAIN REQUIREMENTS OF PROFESSIONAL USERS.

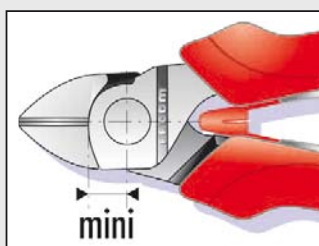
### 1- One tool for cutting all materials

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



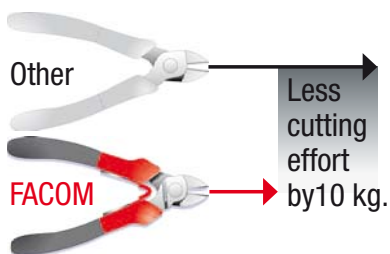
### 2- A reduced cutting effort

- Facom cutting pliers reduce the cutting effort by 20% :
  - Optimised cutting-edge geometry.
  - Long lever arm.
  - Pivot pin offset as close as possible to the cutting edges.



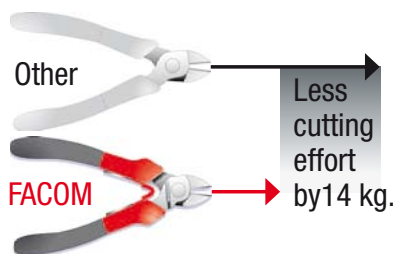
For cutting: 4 mm screws

FACOM cutters require 10 kg less cutting effort on the part of the user.



For cutting: Piano wire 200 kg/mm<sup>2</sup>

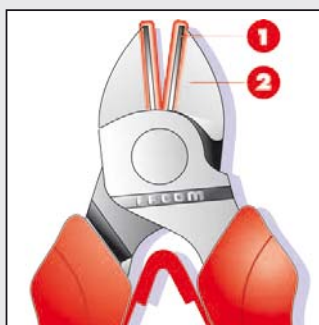
FACOM cutters require 14 kg less cutting effort on the part of the user.



### 3- Durable cutting power

- Very high resistance to wear when used to cut hard wire or subject to intensive use.
- FACOM cutters are made of high strength steel for maximum durability. The cutting edges are double heat treated.

- ① Very hard cutting edges: 61/63 HRc.
- ② CHROME-MOLYBDENUM-VANADIUM steel.



### Cutting capacity

• (Max. diameter of wires in "mm" - Tensile strength in "Kg/mm<sup>2</sup>")

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

### Copper

• (Electrical fitters cutters)

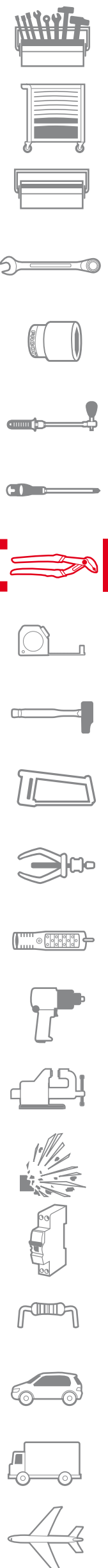
⇒	∅ max	⇒	∅ max	⇒	∅ max
<b>391</b>	: 3.5 mm	<b>435</b>	: 1.3 mm	<b>405</b>	: 1.0 mm
<b>405</b>	: 2.0 mm	<b>416</b>	: 1.0 mm	<b>436</b>	: 0.7 mm

### Plastic

⇒	<b>395</b>	<b>396</b>
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### Four types of finish

- ① CPE series chromed
- ② TE series varnished
- ③ VE-VSE series 1000 Volts insulated
- ④ G series PVC grip

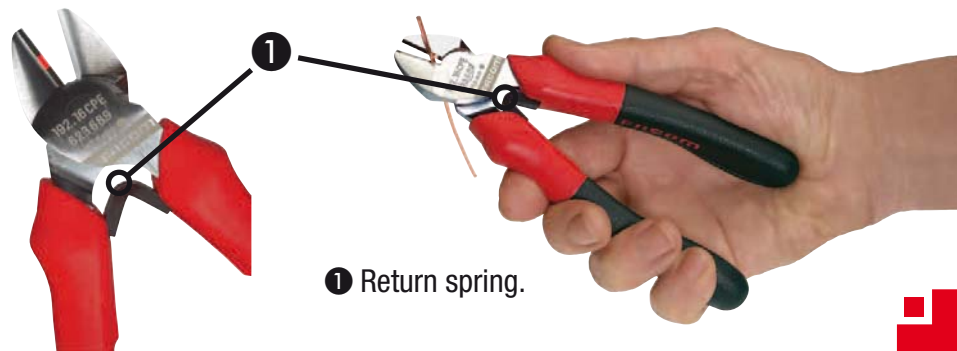




## CPE SERIES CHROME-FINISHED PLIERS

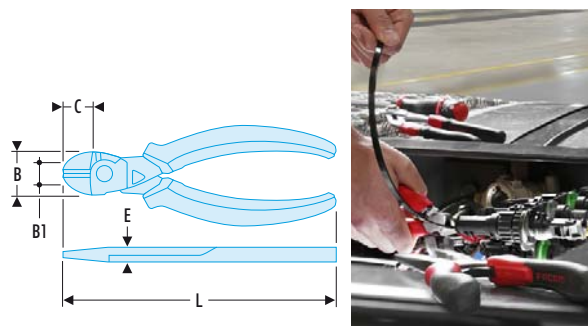
### STRENGTH

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



1 Return spring.

### 192.CPE High-performance diagonal cutters

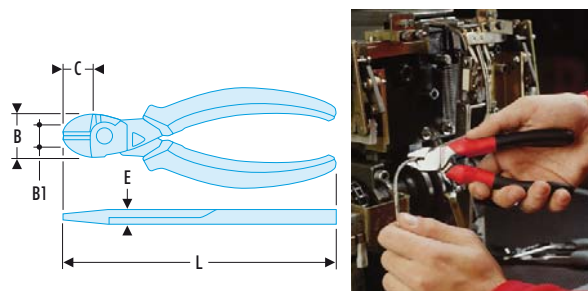


NF ISO 5749, ISO 5749, DIN ISO 5749, ASME B107.500

- Cutting edges designed to cleanly cut all types of wire: piano wire, soft wires and modern materials 200 kg/mm<sup>2</sup>).
- 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]
<b>192.14CPE</b>	21,5	15,5	1,4	9,5	145	160
<b>192.16CPE</b>	24,0	18,0	1,6	10,0	160	200
<b>192.18CPE</b>	26,0	20,0	1,8	11,0	180	260
<b>192.20CPE</b>	28,0	22,0	2,0	11,5	200	320

### Electricians diagonal cutters



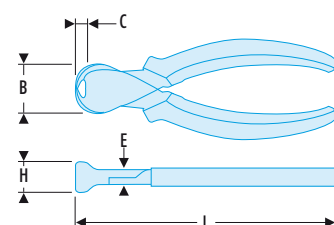
NF ISO 5749, ISO 5749, DIN ISO 5749, ASME B107.500

- 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/mm<sup>2</sup>), 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]
<b>391.16CPE</b>	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/mm<sup>2</sup>).
- 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]
<b>190.16CPE</b>	6,5	28	6,5	1,6	11,5	160	200
<b>190.20CPE</b>	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).

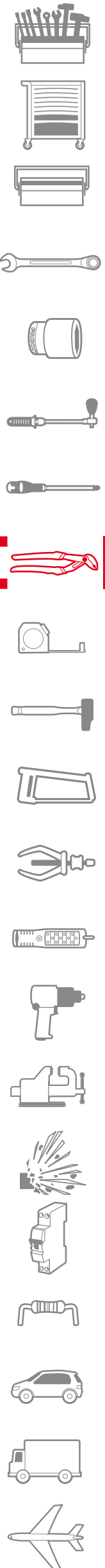
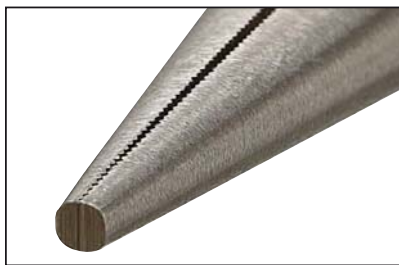
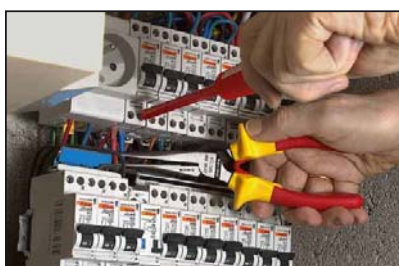
### Guaranteed cutting accuracy and consistency.

- For cleanly cutting thin copper wire and modern materials, hard wires (max. 1.6mm diameter at 160 kg/mm<sup>2</sup>).

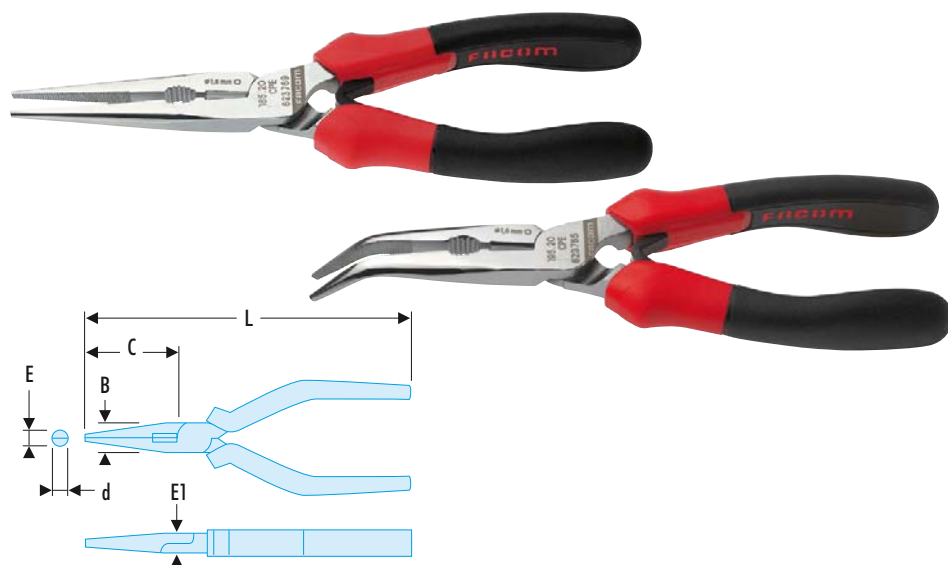
#### Industrial, automotive applications, etc...



#### Electrical, electromechanical applications, etc...



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

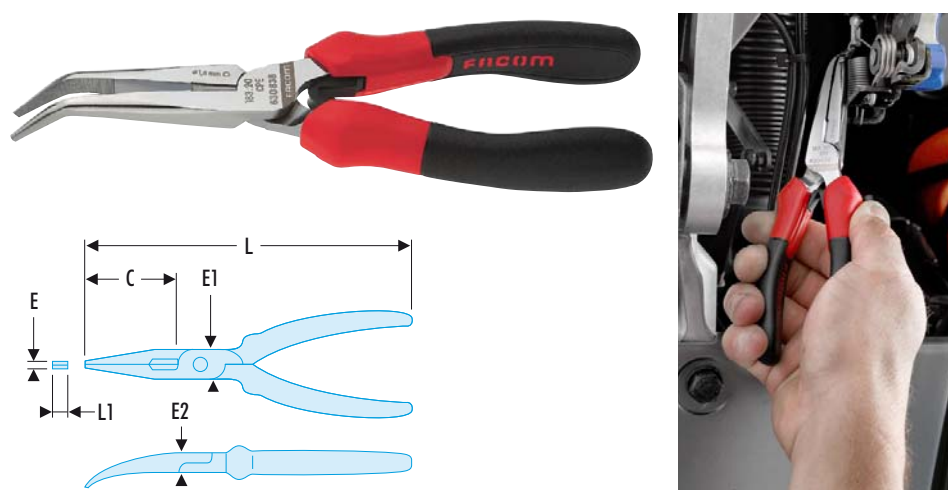


NF ISO 5745, ISO 5745, DIN ISO 5745, ASME B107.500

- Narrow, finely serrated tips with a pipe-grip.
- Side cutter for copper and hard steel wire (max. 160 kg/mm<sup>2</sup>).
- 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]
<b>185.20CPE</b>	18	75	2,9	3,6	9	200	192
<b>195.20CPE</b>	18	69	2,9	3,6	9	200	192

## Half-round long snipe-nose pliers

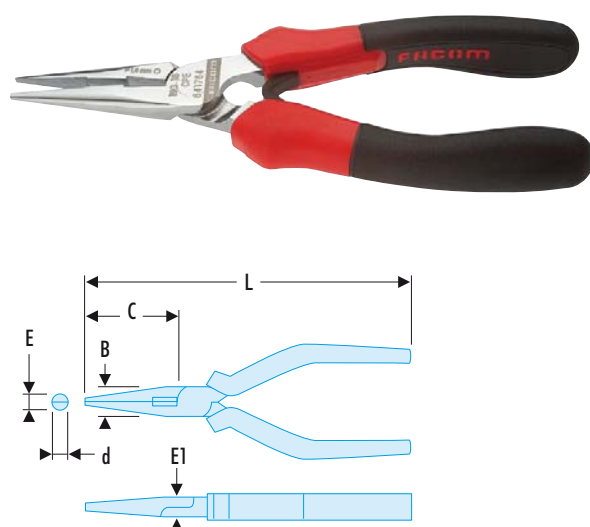


NF ISO 5745, ISO 5745, DIN ISO 5745, ASME B107.500

- Narrow, finely serrated tips, 40° angled nose.
- Side cutter for copper and hard steel wire (max. 160 kg/mm<sup>2</sup>).
- 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]
<b>183.20CPE</b>	69	3	18	9	200	2,5	185

## Short half-round nose pliers

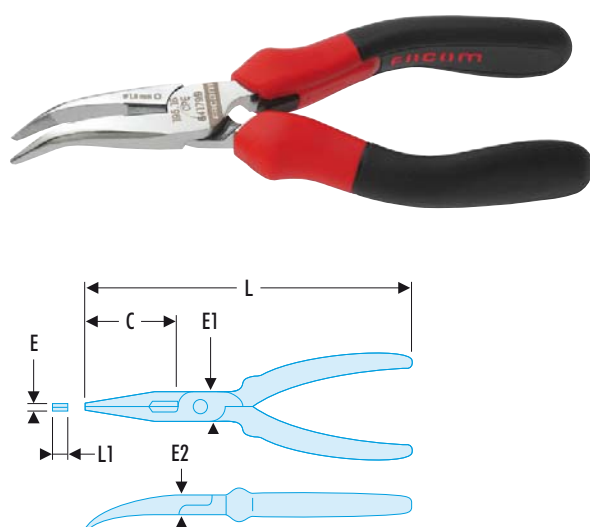


NF ISO 5745, ISO 5745, DIN ISO 5745, ASME B107.500

- Narrow, finely serrated tips.
- Side cutter for copper and hard steel wire (max. 160 kg/mm<sup>2</sup>).
- 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]
<b>193.16CPE</b>	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/mm<sup>2</sup>).
- 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]
<b>195.16CPE</b>	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/mm<sup>2</sup>).
- 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]
<b>187.16CPE</b>	21	34	9,5	165	195
<b>187.18CPE</b>	23	36	10,0	185	225
<b>187.20CPE</b>	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]
<b>188.16CPE</b>	46	4,0	18	9	168	6,5	140
<b>188.20CPE</b>	75	4,0	18	9	200	6,5	200
<b>188E.16CPE</b>	46	2,5	18	9	168	3,5	130

Round nose pliers

Round nose pliers



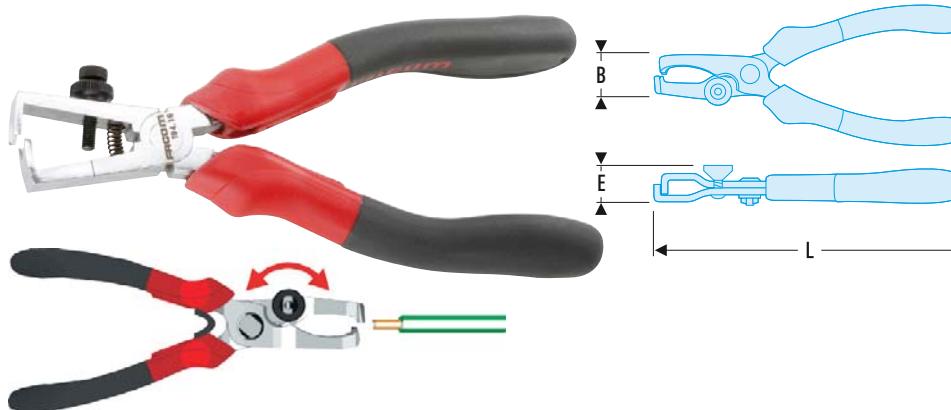
NF ISO 5745, ISO 5745, DIN ISO 5745, ASME B107.500

- 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]
<b>189.17CPE</b>	41	2	4	18	9	170	135

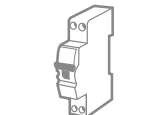
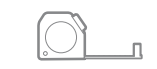
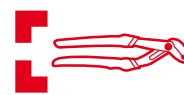
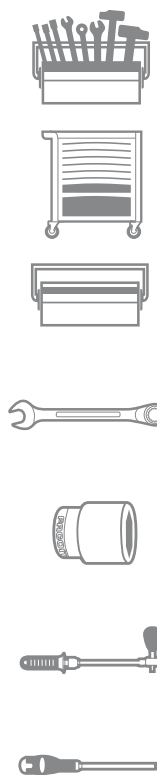
Standard wire strippers

Wire strippers



- For single and multi-core wires 0.5 to 6 mm<sup>2</sup>.
- 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]
<b>194.17CPE</b>	17	0,5 - 6,0	8,5	170	185

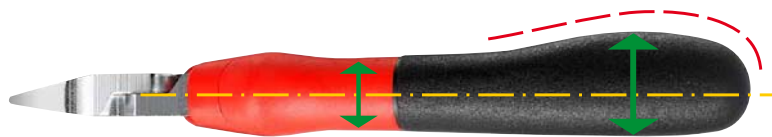
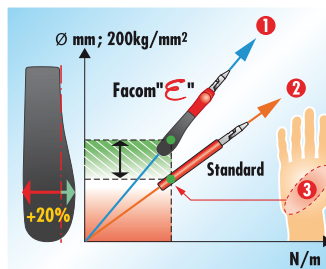


# SERIES "E" PLIERS

## 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



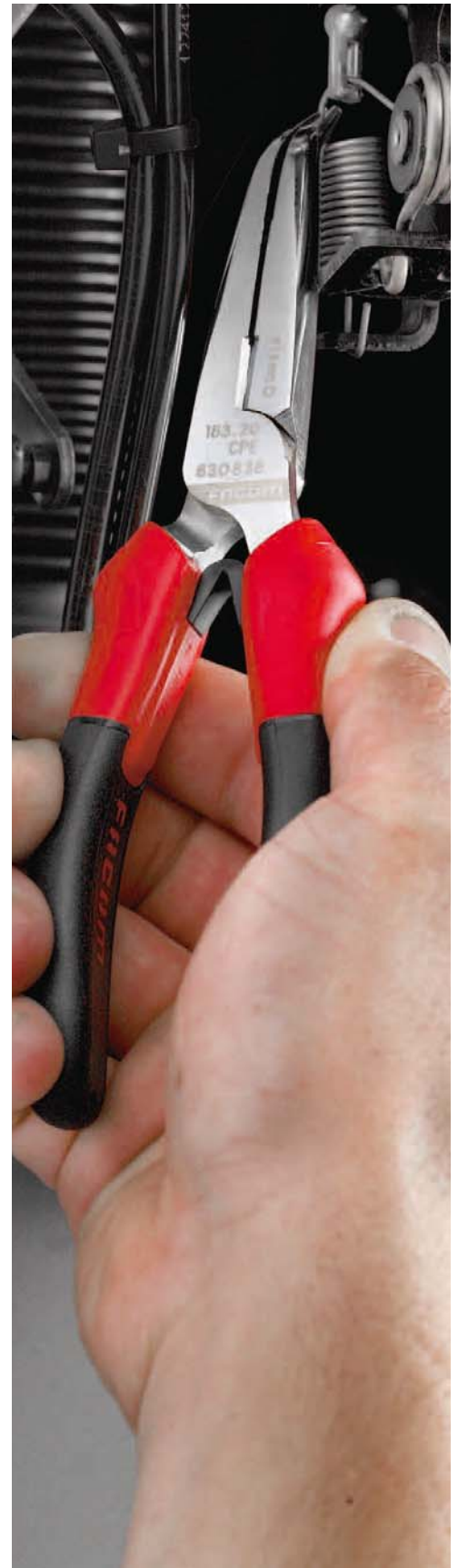
VE series 1,000 V insulated

### Highly resistant materials

- Materials used for the grips are chosen for their resistance to workshop chemicals (Skydrol, chloroethene, 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!

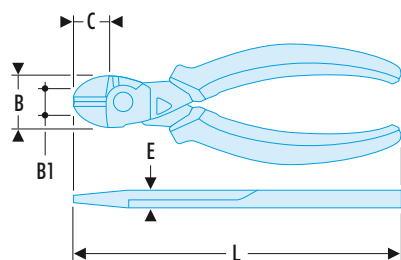
- ① **Spatula-shaped pressure areas**
  - + 20% more slip-resistant.
  - Maximum comfort. Reduced pressure on the hand.
- ② **Return spring**
  - Comfort and precision.
  - The spring naturally wedges the handles snugly between fingers and palm.
- ③ **Guard**
  - Designed to provide a firm, comfortable 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

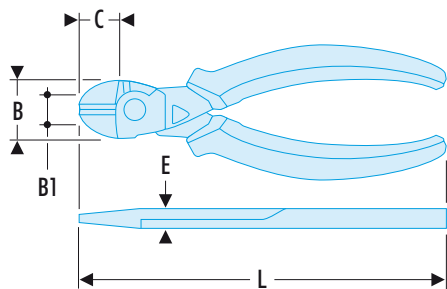
- Cutting edges designed to cleanly cut all types of wire: piano wire, soft wires and modern materials 200 kg/mm<sup>2</sup>.
- Minimum cutting force thanks to long lever arm and offset axis.
- High durability Chrome-Molybdenum-Vanadium steel, very hard cutting edges 61/63 HRC.
- Ergonomic grips resistant to chemical agents.
- Removable return spring.
- Finish: polished, varnished.

Ref	B [mm]	C [mm]	d maxi [mm]	E [mm]	L [mm]	ΔΔ [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



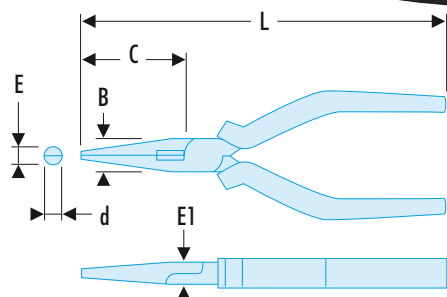
NF ISO 5749, ISO 5749, DIN ISO 5749, ASME B107.500

- 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/mm<sup>2</sup>), 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]
<b>391.16TE</b>	19	21	9	165	190

## Half-round nose pliers

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



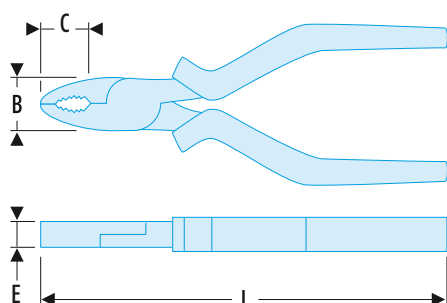
NF ISO 5745, ISO 5745, DIN ISO 5745, ASME B107.500

- Narrow, finely serrated tips with a pipe-grip.
- Side cutter for copper and hard steel wire (max. 160 kg/mm<sup>2</sup>).
- 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]
<b>185.20TE</b>	18	75	2,9	9	200	192
<b>195.20TE</b>	18	69	2,9	9	200	192

## Combination pliers

### 187.TE - Combination pliers



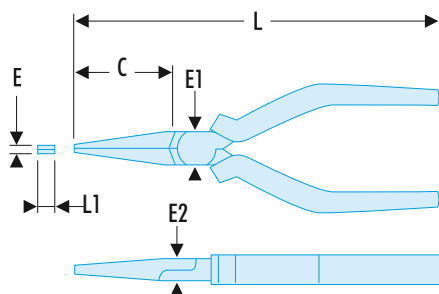
NF ISO 5746, ISO 5746, DIN ISO 5746, ASME B107.500

- Cutting edges designed to cut all types of wire: piano wire, soft wires and modern materials (Fe 200 kg/mm<sup>2</sup>).
- 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]
<b>187.18TE</b>	23	36	10,0	185	225
<b>187.20TE</b>	26	42	11,5	205	300

Flat-nose pliers

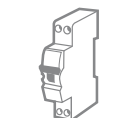
Flat-nose pliers



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

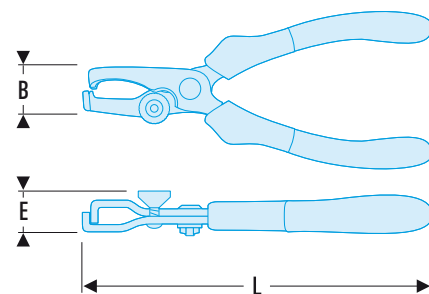
- Serrated jaws for a firm grip.
- Ergonomic grips resistant to chemical agents.
- Removable return spring.
- Finish: polished, varnished.

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



Standard wire strippers

Wire strippers



- For single and multi-core wires 0.5 to 6 mm<sup>2</sup>.
- 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]
<b>194.17TE</b>	17	17	8,5	8,5	170	185

VSE INSULATED CRIMPING PLIERS, WIRE STRIPPERS, ETC.



Electricity section p. 758

## Diagonal cutters

### SERIES "G"

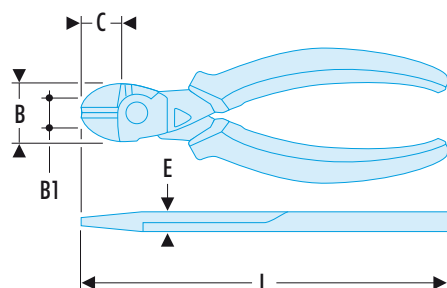
### VARNISHED, POLISHED PLIERS

#### PVC GRIPS

- Identical characteristics and specifications to series CPE and TE.



### 192.G - High-performance diagonal cutters

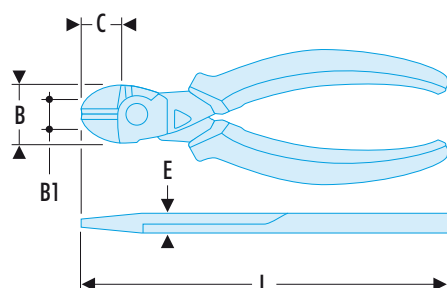


#### NF ISO 5749, ISO 5749, DIN ISO 5749, ASME B107.500

- Cutting edges designed to cleanly cut all types of wire: piano wire, soft wires and modern materials (max. 200 kg/mm<sup>2</sup>).
- 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]
<b>192.14G</b>	21,5	15,5	1,4	9,5	145	130
<b>192.16G</b>	24,0	18,0	1,6	10,0	160	170
<b>192.18G</b>	26,0	20,0	1,8	11,0	180	230
<b>192.20G</b>	28,0	22,0	2,0	11,5	200	290

### Electricians diagonal cutters



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

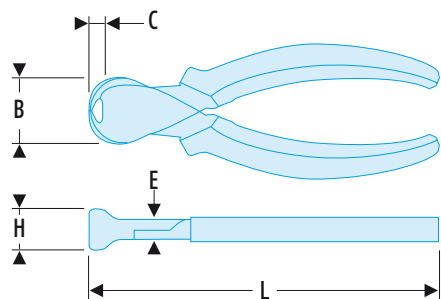
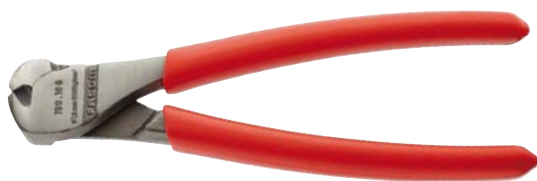
- Snipe nose for confined space (electrical cabinets, wiring).
- Semi-flush cutting edges, designed to cleanly cut through all types of wire: hard wires (max. 160 kg/mm<sup>2</sup>), thin copper wires, modern materials.
- Long lever arm, offset pivot for minimum cutting effort.
- High durability Chrome-Molybdenum-Vanadium steel, very hard cutting edges 61/63 HRc.
- PVC grips.
- Finish: polished, varnished.

➤	B [mm]	C [mm]	E [mm]	L [mm]	ΔΔ [g]
<b>391.16G</b>	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/mm<sup>2</sup>).
- 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]
<b>190.16G</b>	28	6,5	1,6	11,5	23	160	170
<b>190.20G</b>	31	7,5	2,0	13,5	29	200	310

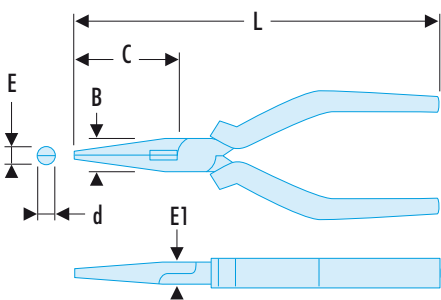
### CUTTING PLIERS END "CUTTING" AND "NIPPER"



Find these products in p. 512

### Half-round nose pliers

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

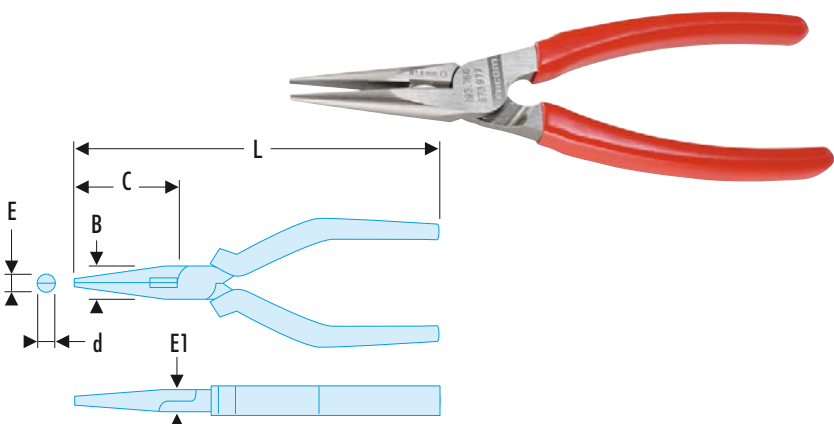


NF ISO 5745, ISO 5745, DIN ISO 5745, ASME B107.500

- Narrow, finely serrated tips with a pipe-grip.
- Side cutter for copper and hard steel wire (max. 160 kg/mm<sup>2</sup>).
- 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]
<b>185.20G</b>	18	75	2,9	3,6	9	200	192
<b>195.16G</b>	17	50	2,5	3,0	9	160	177
<b>195.20G</b>	18	69	2,9	3,6	9	200	192

#### Short half-round nose pliers



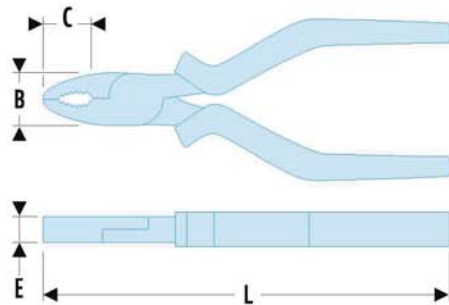
NF ISO 5745, ISO 5745, DIN ISO 5745, ASME B107.500

- Narrow, finely serrated tips.
- Side cutter for copper and hard steel wire (max. 160 kg/mm<sup>2</sup>).
- PVC grips.
- Finish: polished, varnished.

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

## Combination pliers

### 187.G - Combination pliers



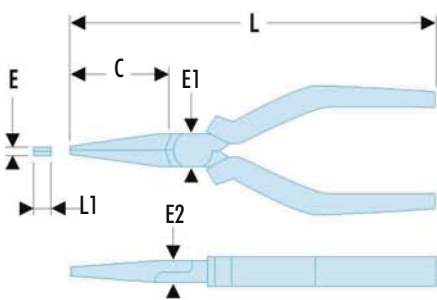
NF ISO 5746, ISO 5746, DIN ISO 5746, ASME B107.500

- Cutting edges designed to cut all types of wire: piano wire, soft wires and modern materials (Fe 200 kg/mm<sup>2</sup>)
- 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]
<b>187.16G</b>	21	34	21	9,5	165	195
<b>187.18G</b>	23	36	23	10,0	185	225
<b>187.20G</b>	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]
<b>188.16G</b>	46	4	18	9	168	6,5	140
<b>188.20G</b>	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**



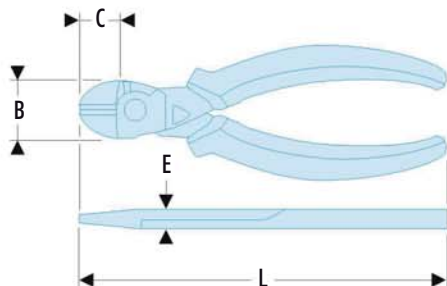
**Return spring for added safety**

**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.



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

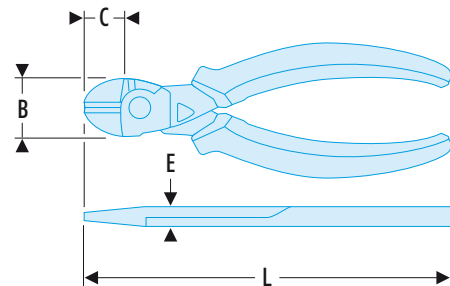
- For your safety, all pliers are tested individually at 10,000 Volt for 10 seconds, at the end of the manufacturing cycle.
- Cutting edges designed to cleanly cut through all types of wire: piano wire, soft wires, modern materials, etc.
- Minimum cutting force thanks to long lever arm and offset axis.
- 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]
<b>192.14VE</b>	21,5	15,5	9,5	145	160
<b>192.16VE</b>	24,0	18,0	10,0	160	200
<b>192.18VE</b>	26,0	20,0	11,0	180	260





## 1,000 Volt insulated electricians diagonal cutters



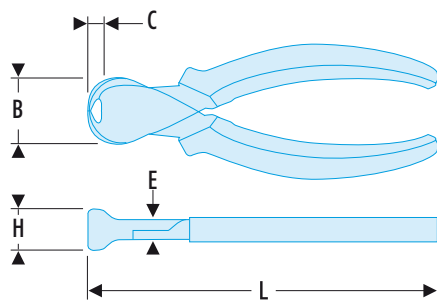
NF ISO 5749, NF EN 60900, ISO 5749, EN 60900, DIN ISO 5749, DIN EN 60900, ASME B107.500

- 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]
<b>391.16VE</b>	19	21	9	165	190

## End cutters

### 1,000 Volt insulated high-performance end cutters



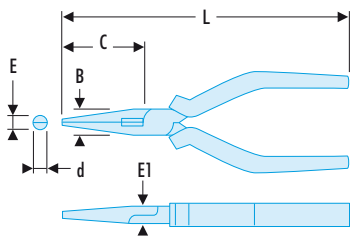
NF ISO 5748, NF EN 60900, ISO 5748, EN 60900, DIN ISO 5748, DIN EN 60900, ASME B107.500

- 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]
<b>190.16VE</b>	28	6,5	11,5	23	160	200

## Half-round nose pliers

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

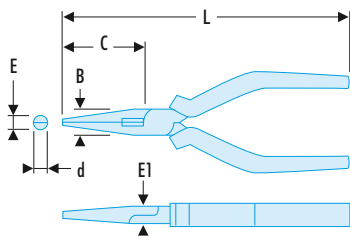


NF ISO 5745, NF EN 60900, ISO 5745, EN 60900, DIN ISO 5745, DIN EN 60900, ASME B107.500

- 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.

Model	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



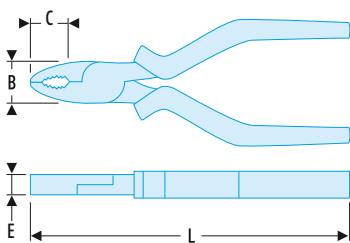
NF ISO 5745, NF EN 60900, ISO 5745, EN 60900, DIN ISO 5745, DIN EN 60900, ASME B107.500

- 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.

Model	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

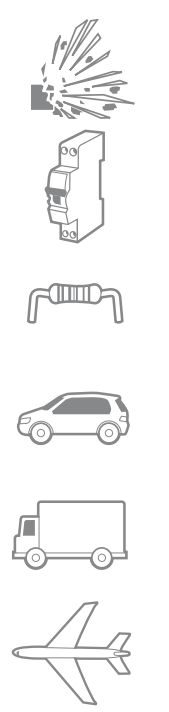
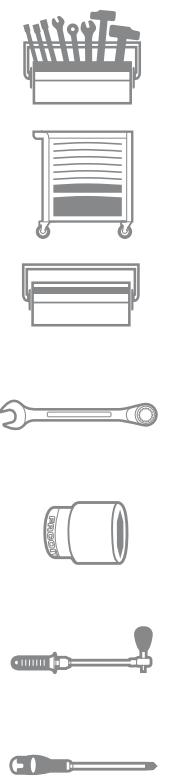
### 187.VE - 1,000 Volt insulated combination pliers



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.

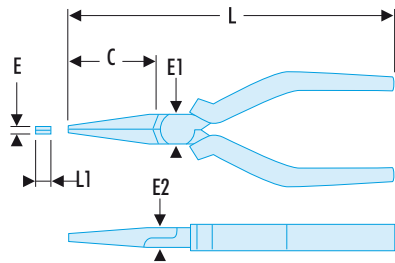
Model	B [mm]	C [mm]	E [mm]	L [mm]	ΔΔ [g]
187.16VE	21	34	9,5	165	195
187.18VE	23	36	10,0	185	225



# VE series 1,000 Volt pliers

## Flat-nose pliers

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



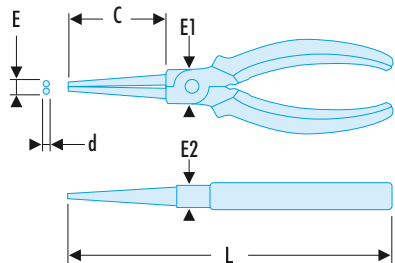
NF ISO 5745, NF EN 60900, ISO 5745, EN 60900, DIN ISO 5745, DIN EN 60900, ASME B107.500

- 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]
<b>188.16VE</b>	46	4	18	9	168	6,5	140
<b>188.20VE</b>	75	4	18	9	200	6,5	200

## Round nose pliers

### 1,000 Volt insulated round nose pliers



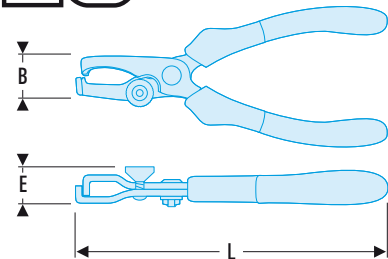
NF ISO 5745, NF EN 60900, ISO 5745, EN 60900, DIN ISO 5745, DIN EN 60900, ASME B107.500

- 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]
<b>189.17VE</b>	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 mm<sup>2</sup>.
- Adjustment screw with lock nut.
- Metal return screw.
- Ergonomic anti-slip grips.
- Finish: polished, varnished.

	B [mm]	E [mm]	L [mm]	ΔΔ [g]
<b>194.17VE</b>	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

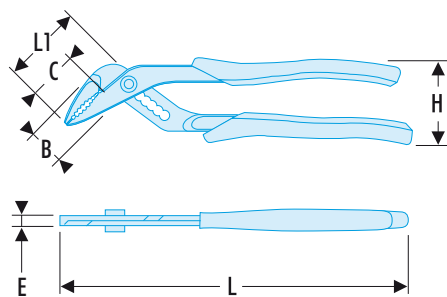


NF ISO 8976, ISO 8976, DIN ISO 8976, ASME B107.500

- 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]
<b>181.25CPEF</b>	33,8	55	28	41

## Slip-joint multigrip pliers with fluorescent grips

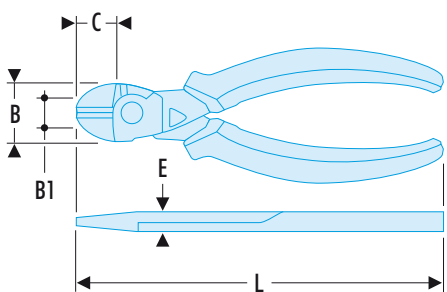


NF ISO 8976, ISO 8976, DIN ISO 8976, ASME B107.500

- 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]
<b>180.CPEF</b>	30	35	8	22	250	58

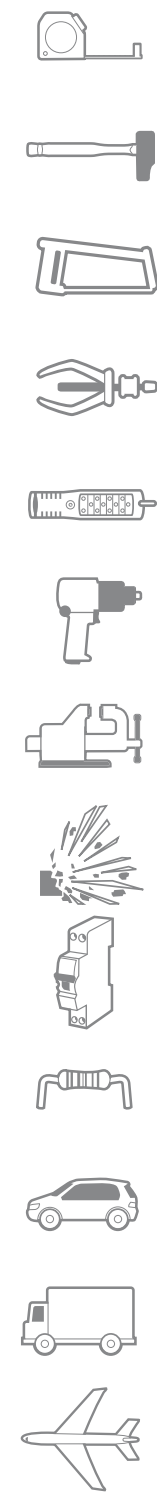
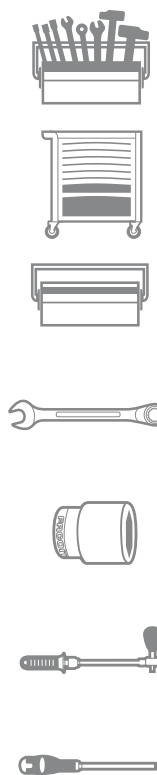
## 192.CPEF - Diagonal cutters with fluorescent grips



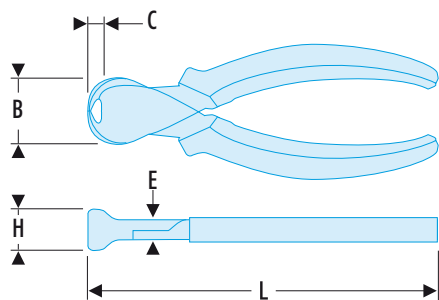
NF ISO 5749, ISO 5749, DIN ISO 5749, ASME B107.500

- 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/mm<sup>2</sup>).
- 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]
<b>192.14CPEF</b>	21,5	15,5	1,5	9,5	145	160
<b>192.20CPEF</b>	28,0	22,0	2,5	11,5	200	320



## Front cutters with fluorescent grips

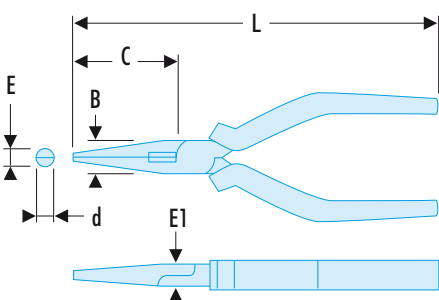


### NF ISO 5748, ISO 5748, DIN ISO 5748, ASME B107.500

- 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/mm<sup>2</sup>).
- 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]
<b>190.20CPEF</b>	7,5	31	7,5	13,5	200	340

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

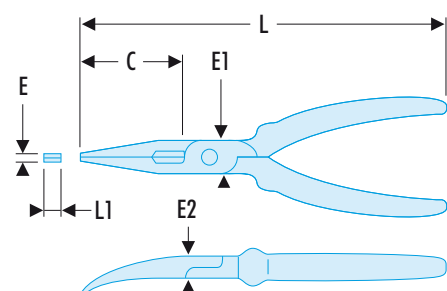


### NF ISO 5745, ISO 5745, DIN ISO 5745, ASME B107.500

- 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/mm<sup>2</sup>).
- 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]
<b>185.20CPEF</b>	18	75	2,9	3,6	9	200	200

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

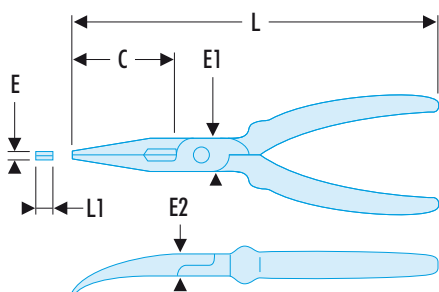


### NF ISO 5745, ISO 5745, DIN ISO 5745, ASME B107.500

- 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/mm<sup>2</sup>).
- 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]
<b>183.20CPEF</b>	69	3	18	9	200	2,5	185

## Short half-round nose pliers with fluorescent grips

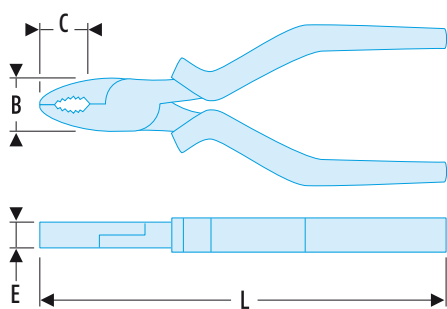


NF ISO 5745, ISO 5745, DIN ISO 5745, ASME B107.500

- 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/mm<sup>2</sup>).
- 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]
<b>195.16CPEF</b>	17	50	2,5	3	9	160	177

## Combination pliers with fluorescent grips

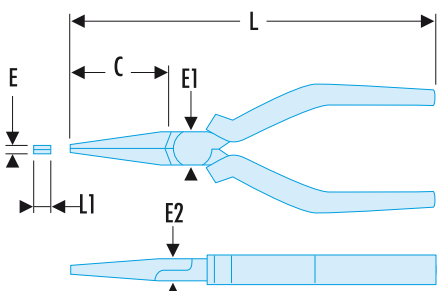


NF ISO 5746, ISO 5746, DIN ISO 5746, ASME B107.500

- 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/mm<sup>2</sup>).
- 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]
<b>187.16CPEF</b>	21	34	9,5	165	195

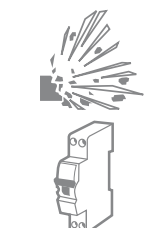
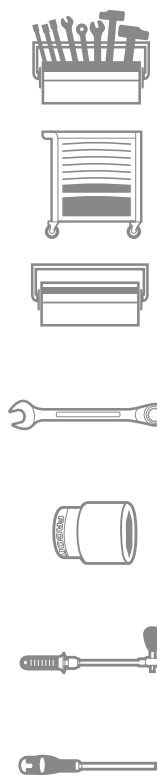
## Flat nose pliers with fluorescent grips



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

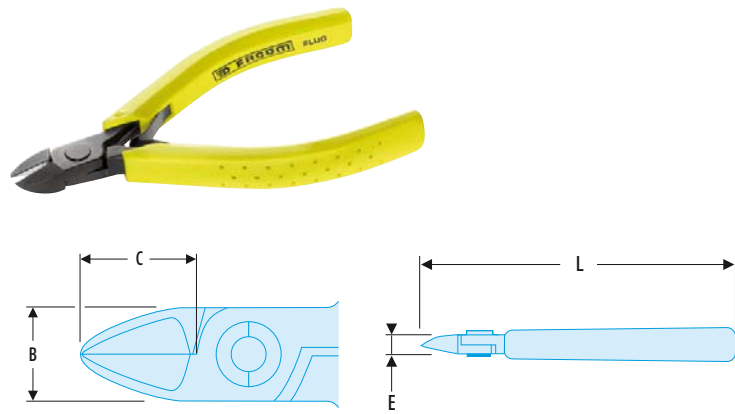
- Detect the tool thanks to its fluorescence, activated by a lamp or UV neon light.
- Serrated nose for stronger grip.
- Ergonomic grips resistant to chemical agents.
- Removable return spring.
- Finish: chromed.

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





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

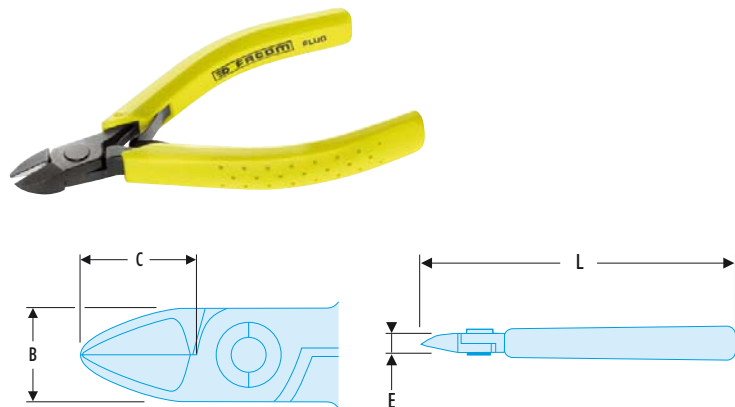


NF ISO 9654, ISO 9654, DIN ISO 9654, ASME B107.500

- 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]
<b>405.10MTF</b>	10,5	11,5	7	110	0,3 - 1,4	0,8	∧	60

## Micro-Tech® long-reach cutters with fluorescent grips

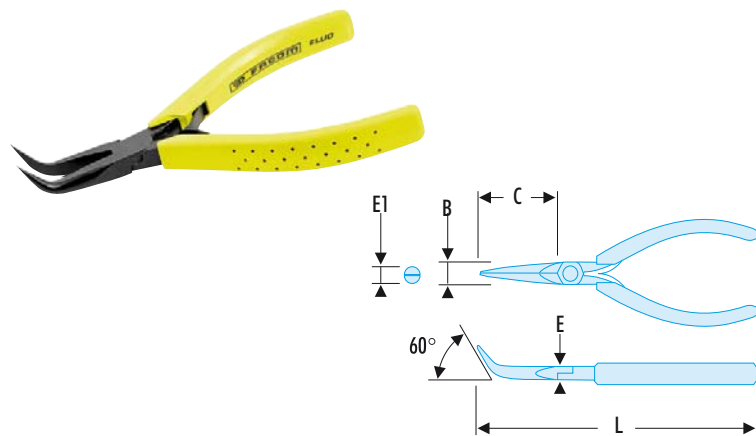


NF ISO 9654, ISO 9654, DIN ISO 9654, ASME B107.500

- 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]
<b>425F</b>	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]
<b>423.MTF</b>	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]
<b>179A.18F</b>	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]
<b>199A.18F</b>	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]
<b>177A.18F</b>	1,8	19 - 60	180	175

## Outside Circlip® pliers with fluorescent grips - 90° angled

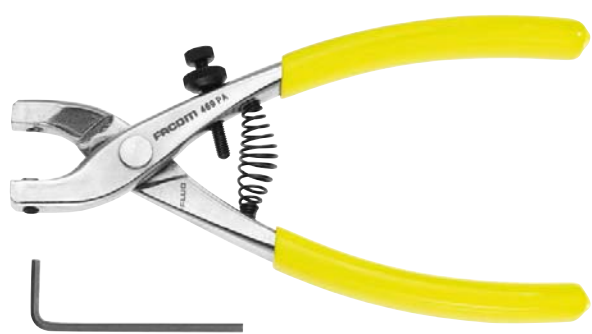


NF E 73-130, DIN 5254, ASME B107.500

- 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]
<b>197A.18F</b>	1,8	19 - 60	170	175

## 469F Inside Circlip® pliers with fluorescent grips



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

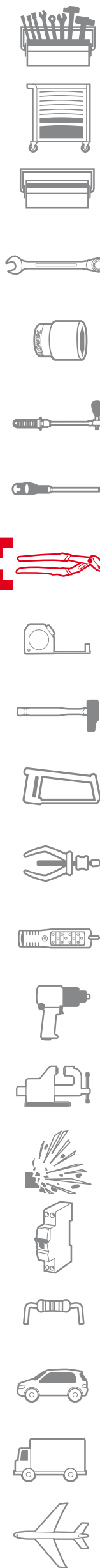
- Detect the tool thanks to its fluorescence, activated by a lamp or UV neon light.
  - Interchangeable tips for a capacity of diam. 8 --> 63 mm.
  - Thumbscrew position setting.
  - Opening return spring.
  - Finish: chrome finish, PVC grip.
  - Supplied in a case with key and set of bits E1 - E2 - 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]	ΔΔ [g]
<b>179A.9</b>	0,9	8 - 13	140	115
<b>179A.13</b>	1,3	12 - 25	140	115
<b>179A.18</b>	1,8	19 - 60	185	215
<b>179A.23</b>	2,2	40 - 100	215	300
<b>179A.32</b>	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]
<b>169A.9</b>	0,9	8 - 13	140	115
<b>169A.13</b>	1,3	12 - 25	140	115
<b>169A.18</b>	1,8	19 - 60	180	215
<b>169A.23</b>	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]
<b>199A.9</b>	0,9	8 - 13	130	115
<b>199A.13</b>	1,3	12 - 25	130	115
<b>199A.18</b>	1,8	19 - 60	170	215
<b>199A.23</b>	2,2	40 - 100	205	215
<b>199A.32</b>	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]
<b>177A.9</b>	0,9	3 - 10	150	105
<b>177A.13</b>	1,3	10 - 25	150	105
<b>177A.18</b>	1,8	19 - 60	180	175
<b>177A.23</b>	2,2	40 - 100	215	280
<b>177A.32</b>	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]
<b>167A.9</b>	0.9	3 - 10	145	105
<b>167A.13</b>	1.3	10 - 25	145	105
<b>167A.18</b>	1.8	19 - 60	175	175
<b>167A.23</b>	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]
<b>197A.9</b>	0,9	3 - 10	140	105
<b>197A.13</b>	1,3	10 - 25	140	105
<b>197A.18</b>	1,8	19 - 60	170	175
<b>197A.23</b>	2,2	40 - 100	200	280
<b>197A.32</b>	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

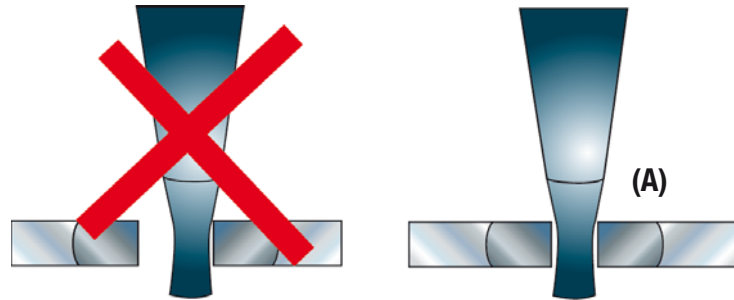


- Including:
    - 177A.13: Straight nose outside Circlip® pliers for Circlips® 10 --> 25 mm.
    - 177A.18: Straight nose outside Circlip® pliers for Circlips® 19 --> 60 mm.
    - 179A.13: Straight nose inside Circlip® pliers for Circlips® 12 --> 25 mm.
    - 179A.18: Straight nose inside Circlip® pliers 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]
<b>499.32</b>	45°	3,2	85 - 200	310	480
<b>479.32</b>	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.

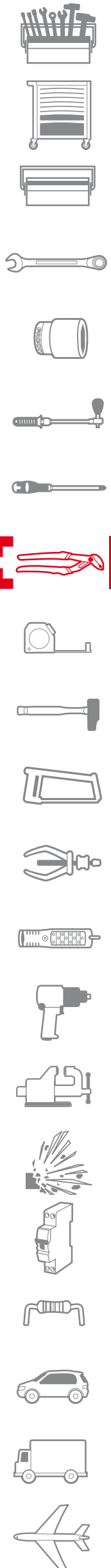
➤	Tips	d [mm]	d mini - maxi [mm]	L [mm]	ΔΔ [g]
<b>477.32</b>	45°	3,2	85 - 200	310	480
<b>497.32</b>	Straight	3,2	85 - 200	310	480

490.SE - Spare tips for pliers 477 to 499



- Each reference includes 2 tips and 2 screws.

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



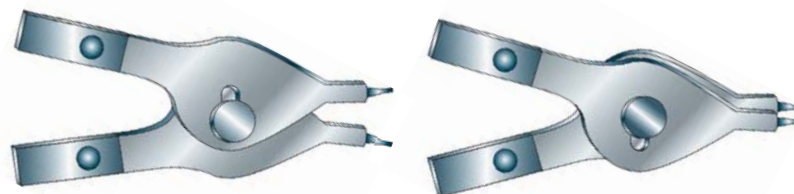


## Reversible pliers

### 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]
<b>475A.15</b>	1,0	10 --> 30 - 10 --> 18	150	75
<b>475A.20</b>	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

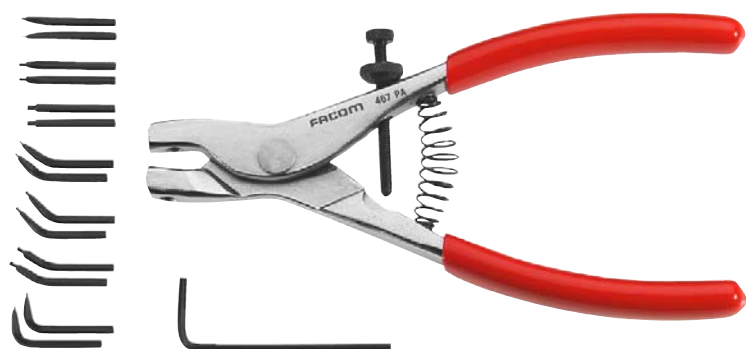
- Interchangeable tips for a capacity of diam. 3 --> 63 mm.
  - Thumbscrew position setting.
  - Opening return spring.
  - Finish: chrome finish, red PVC grips.
  - Supplied in a case with key and set of bits E1 - E2 - E3 - E5 - E6 - E8 - E9.
- Weight: 160 g.

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.

Ref	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

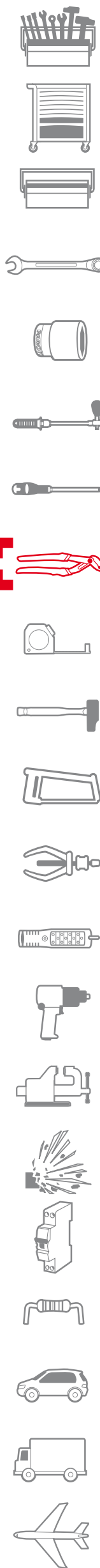
411A - Outside snap-ring pliers



ASME B107.500

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

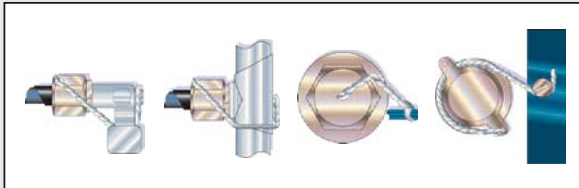
Ref	d mini - maxi [mm]	L [mm]	[g]
411A.17	15 - 62	150	190
411A.20	60 - 160	190	275



## FACOM LOCKING-WIRE PLIERS

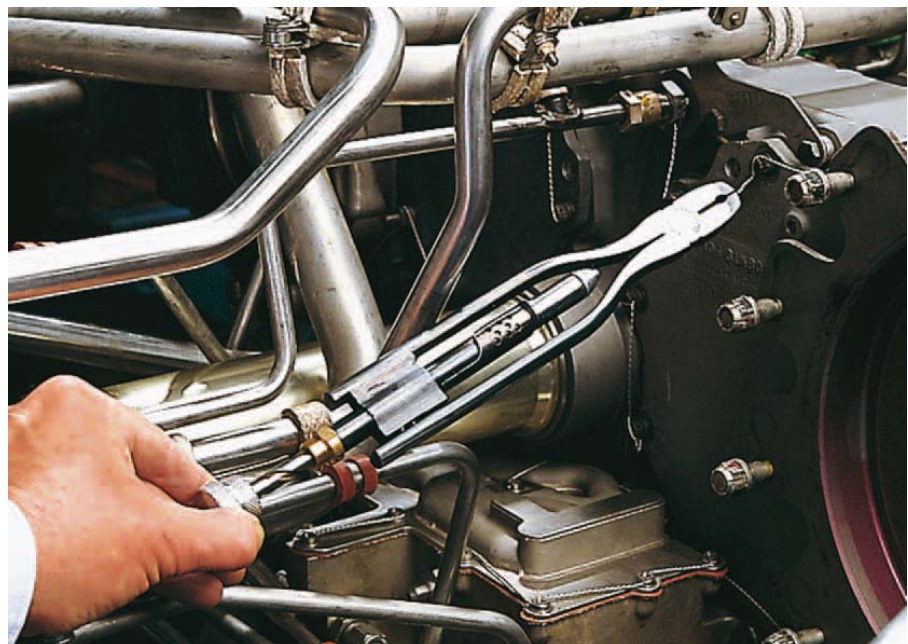
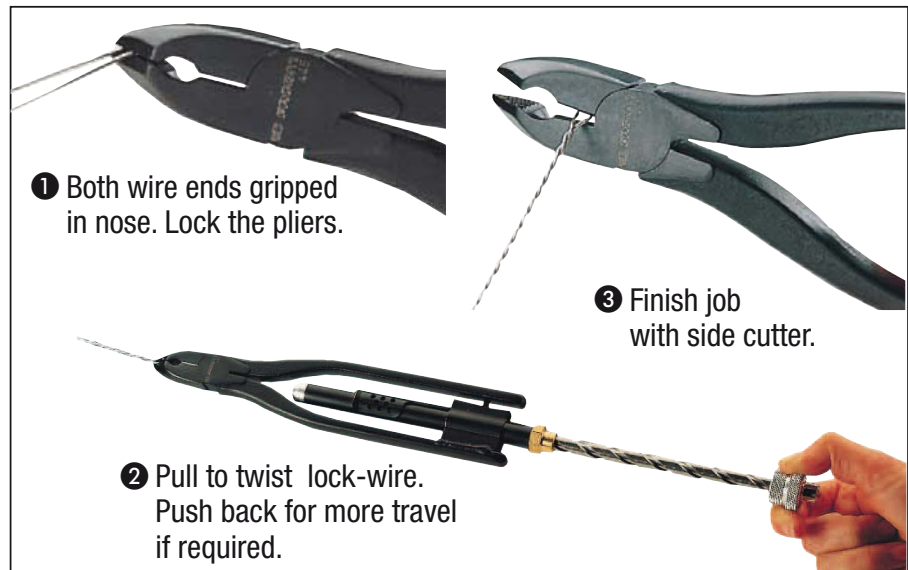
### Fast twist in lock-wire securing assemblies subject to vibration.

- For stainless and Inconel wire  $\varnothing$  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.

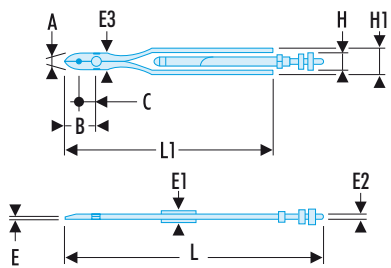


### Automatic model

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



### Short locking-wire pliers 8"

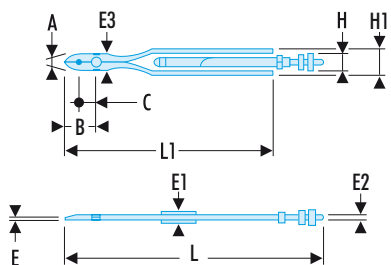


#### ASME B107.500

- "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]	$\Delta\Delta$ [g]
<b>445.8R</b>	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]	$\Delta\Delta$ [g]
<b>445.10R</b>	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.

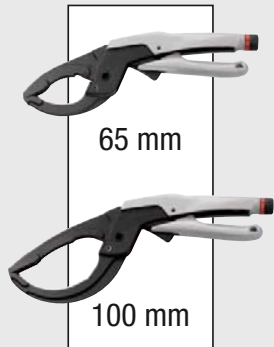
Thumbscrew  
jaw  
adjustment.

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

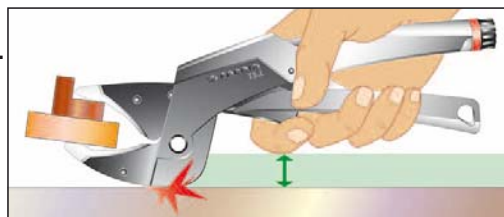


**T5: INCREASED SAFETY**  
**No shocks to the hand**

• 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**

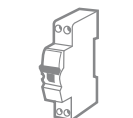
• The pliers clamp and release with one hand even when very tight.  
• Leaves the other hand free to hold components.

**Controlled release**

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

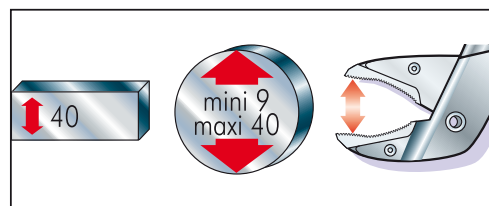
**Ergonomic**

• 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]
<b>T5.L</b>	d. 40 mm	250 x 75 x 22	631
<b>T5.L65</b>	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**



Round up to 135 mm

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.



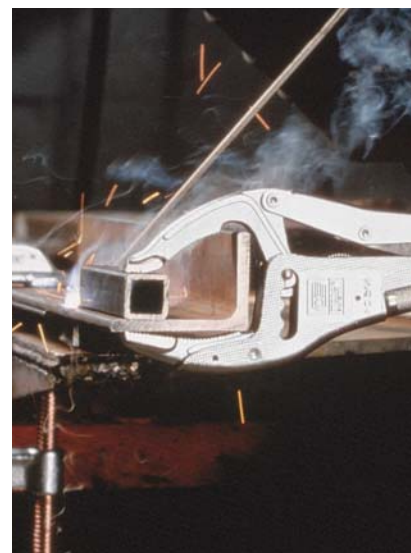
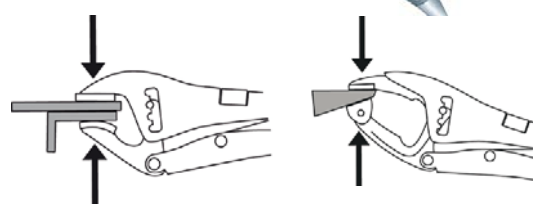
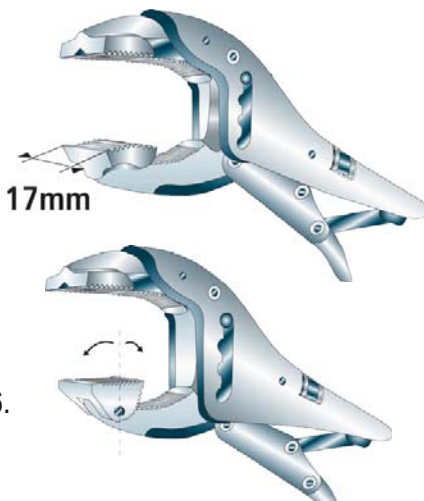
Hexagonal up to 125 mm

Jaws engineered for secure grip.

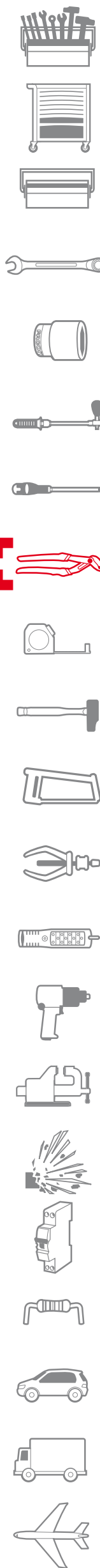
- 17 mm wide.
- Machined groove in upper jaw holds small round sections.
- Serrations along full jaw length.
- Chrome-molybdenum steel. For better wear resistance.

**Hinged tip versions.**

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

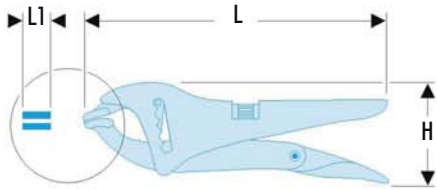


Angle section up to 70 mm





## Short-nose lock-grip pliers

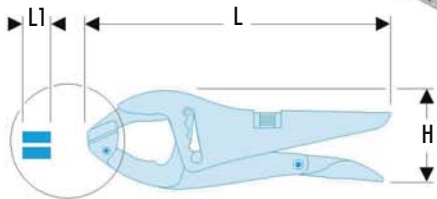


### ASME B107.500

- 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]	$\Delta\Delta$ [g]
<b>500</b>	58	225	17	540

## 501-506 - Long-nose lock-grip pliers

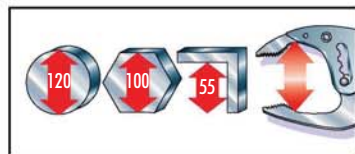
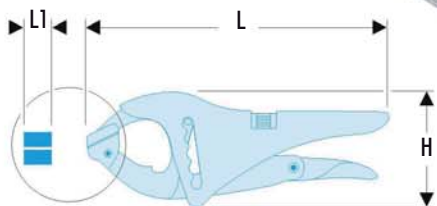


### ASME B107.500

- 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]	$\Delta\Delta$ [g]
<b>501</b>	63	250	17	620
<b>506</b>	63	250	17	640

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

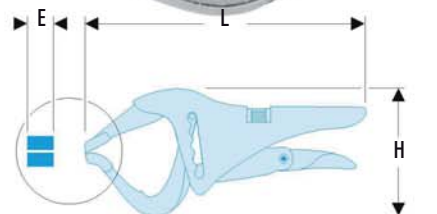


### ASME B107.500

- 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]	$\Delta\Delta$ [g]
<b>511</b>	79	250	17	680
<b>516</b>	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]	$\Delta\Delta$ [g]
<b>505</b>	89	270	17	720

SERIES 580

AUTOMATIC LOCK-GRIP PLIERS

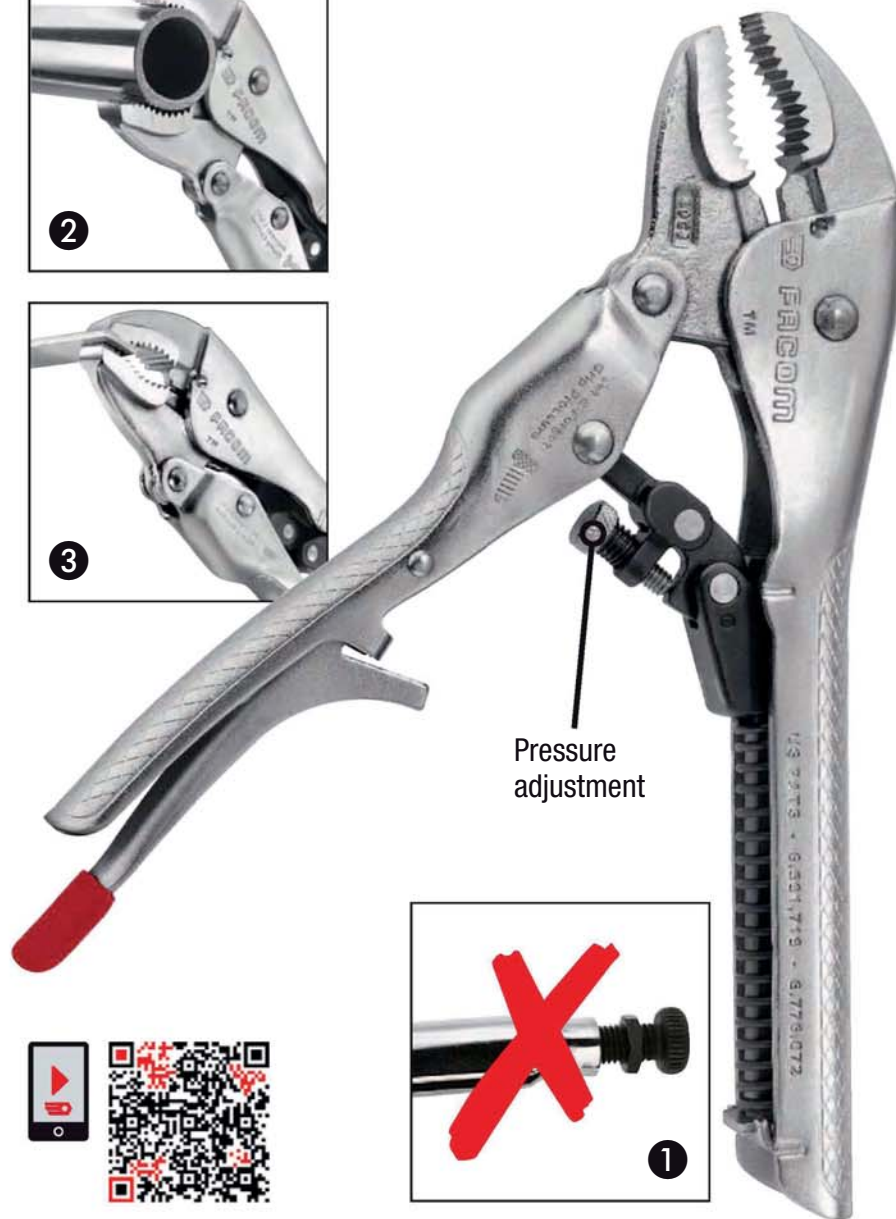
**IDEAL FOR SAVING TIME AND FOR PRODUCTION WORK**

**No adjustment!**

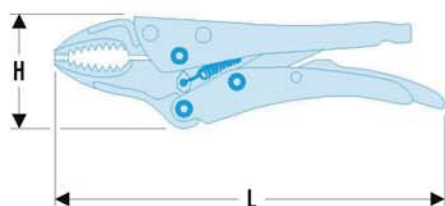
- ❶ Just adjust the pressure no readjustment required.
- ❷ The tool automatically adjusts from thick parts to thin and from thin parts to thick.

**Patented automatic closing mechanism.**

- ❸ 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).

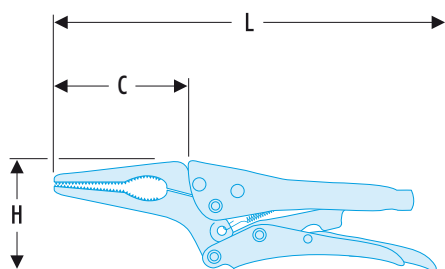
	A [mm]	B [mm]	C [mm]	H [mm]	L [mm]	ΔΔ [g]
580.6	30	21	8	45	150	235
580.10	38	30	12	63	250	642





# 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]
<b>582.7</b>	45	61	5,5	61	45	175	270

## Compact lock-grip pliers

### SERIES 507

### 507 SERIES COMPACT LOCK-GRIP PLIERS

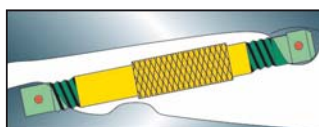
#### The “compact 507” range offers two major benefits

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.



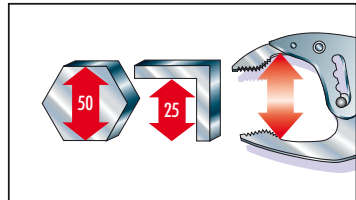
## 507A Short-nose compact lock-grip pliers



### 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.

## 509 Long-nose compact lock-grip pliers

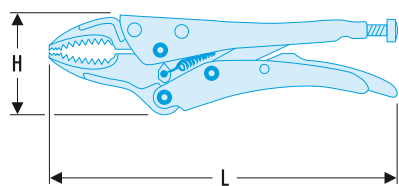


### ASME B107.500

- 4-position slip joint system.
- Fine adjustment with the unique Facom knurl system.
- Forged jaws.
- Nose width 9.6 mm.
- Length: 215 mm.
- Finish: chromed.
- Weight: 370 g.

## Single-setting lock-grip pliers

### 513 - Short-nose single setting lock-grip pliers

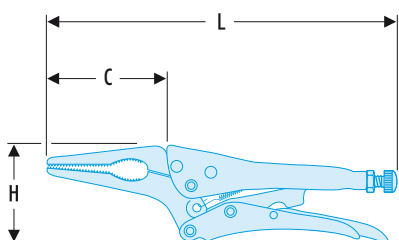


### ASME B107.500

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

Item	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

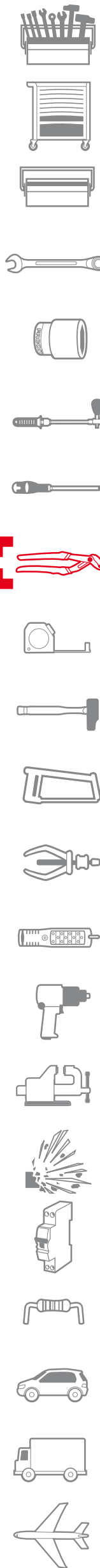
### 517 - Long-reach single setting lock-grip pliers



### ASME B107.500

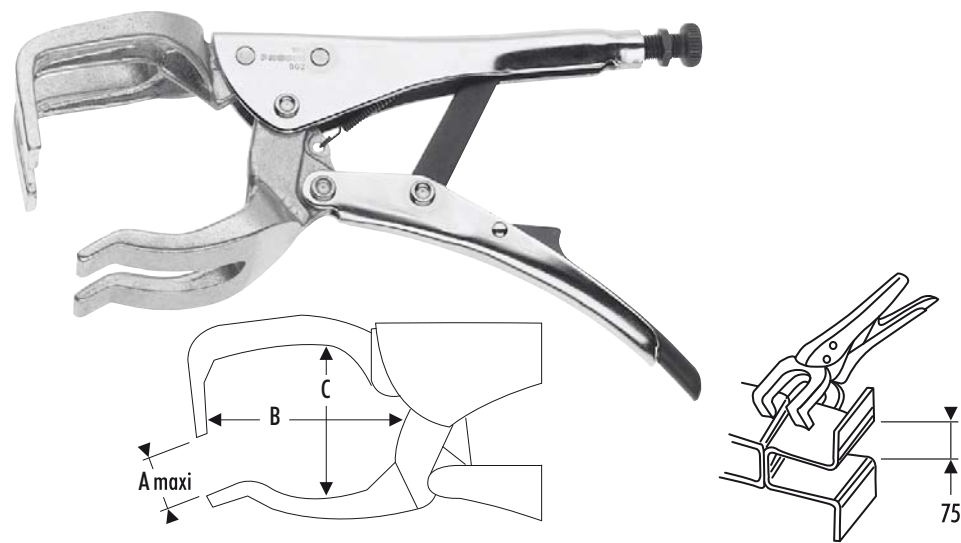
- For reaching and gripping components in confined spaces.
- Hand-screw adjustment.
- Finish: chromed.

Item	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

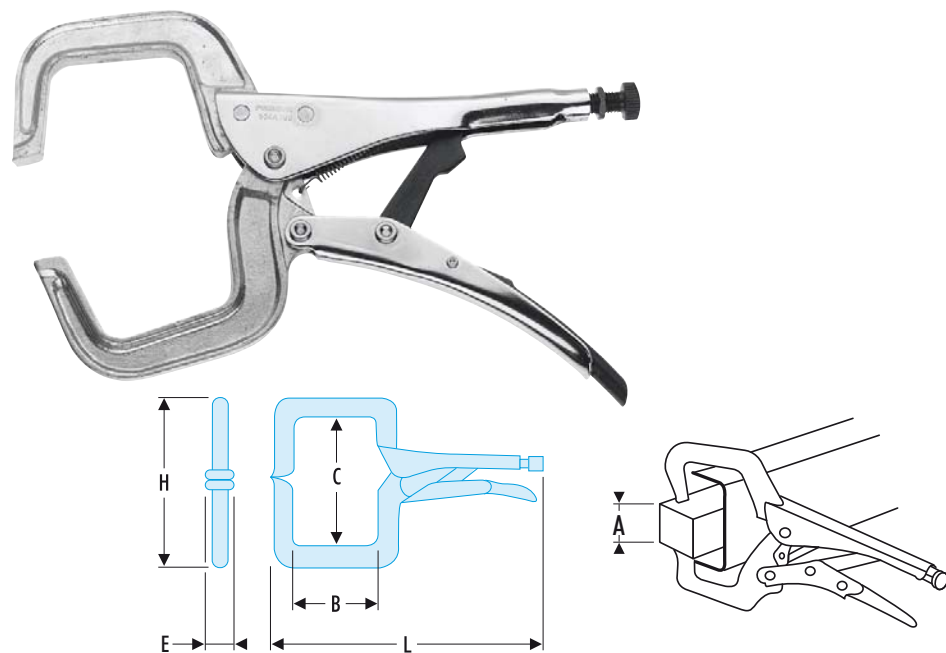


#### ASME B107.500

- 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 maxi [mm]	B [mm]	C [mm]	$\Delta\Delta$ [g]
<b>502A</b>	75	65	50	735

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

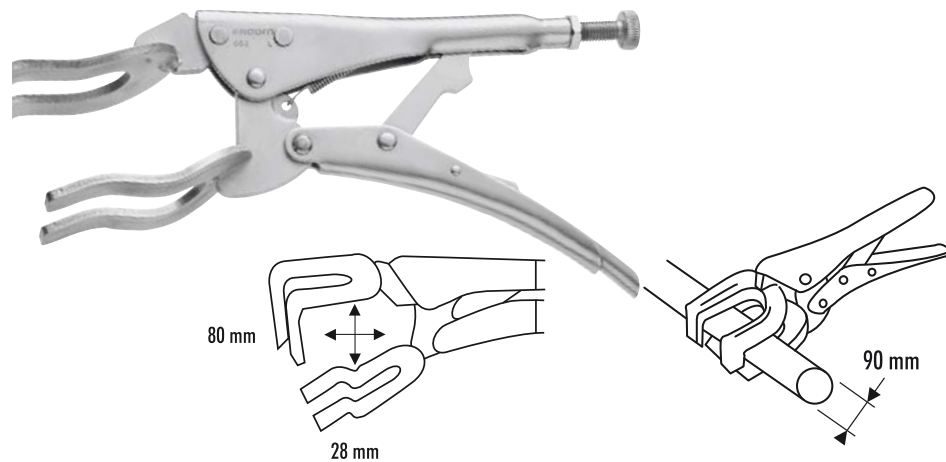


#### ASME B107.500

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

➤	A maxi [mm]	B [mm]	C [mm]	E [mm]	H [mm]	L [mm]
<b>504A.100</b>	80	65	100	12	147	280
<b>504A.180</b>	125	120	180	20	240	350

### ▣ Lock-grip pliers for round sections

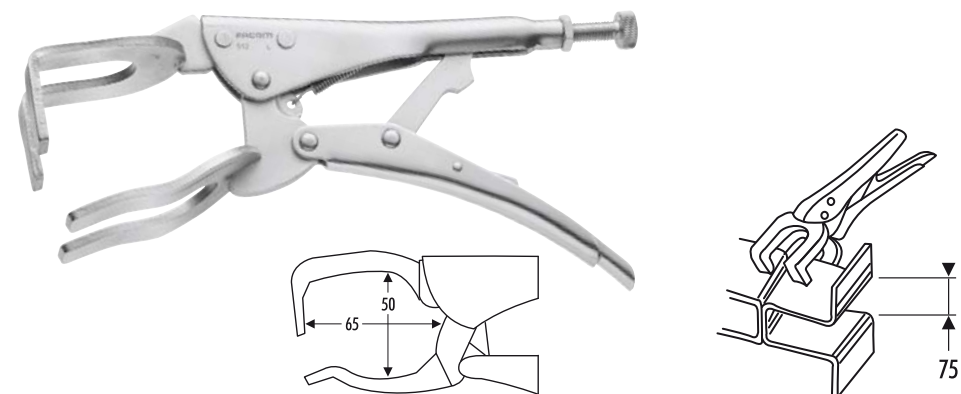


#### ASME B107.500

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

➤	A maxi [mm]	B [mm]	C [mm]	$\Delta\Delta$ [g]
<b>503</b>	90	80	28	945

### ▣ Lock-grip pliers for angle sections

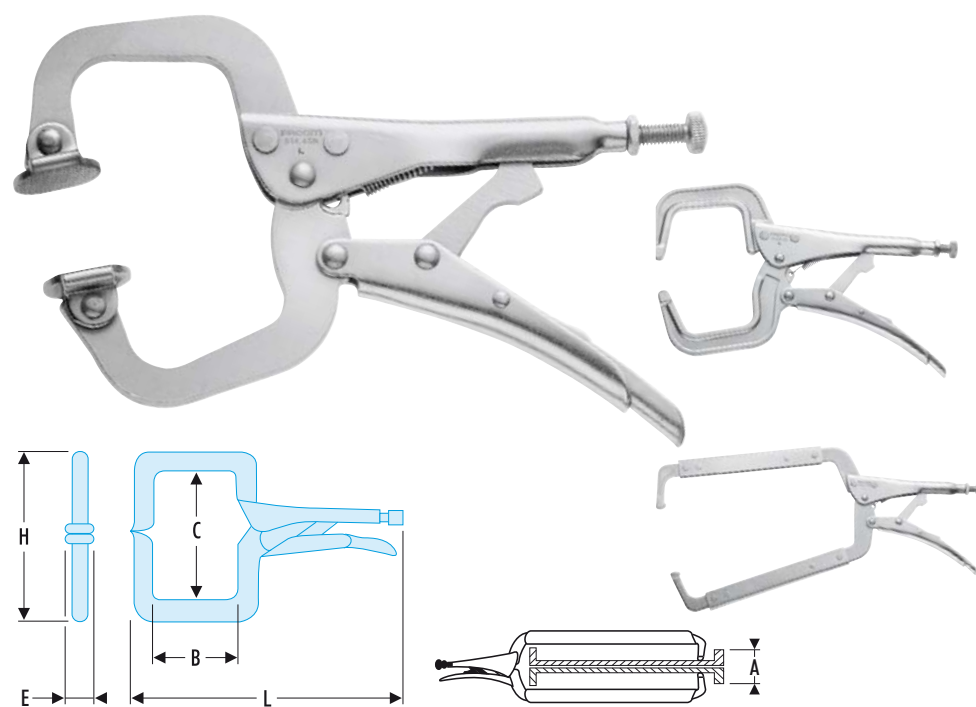


#### ASME B107.500

- 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 maxi [mm]	B [mm]	C [mm]	$\Delta\Delta$ [g]
<b>512</b>	75	65	50	953

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



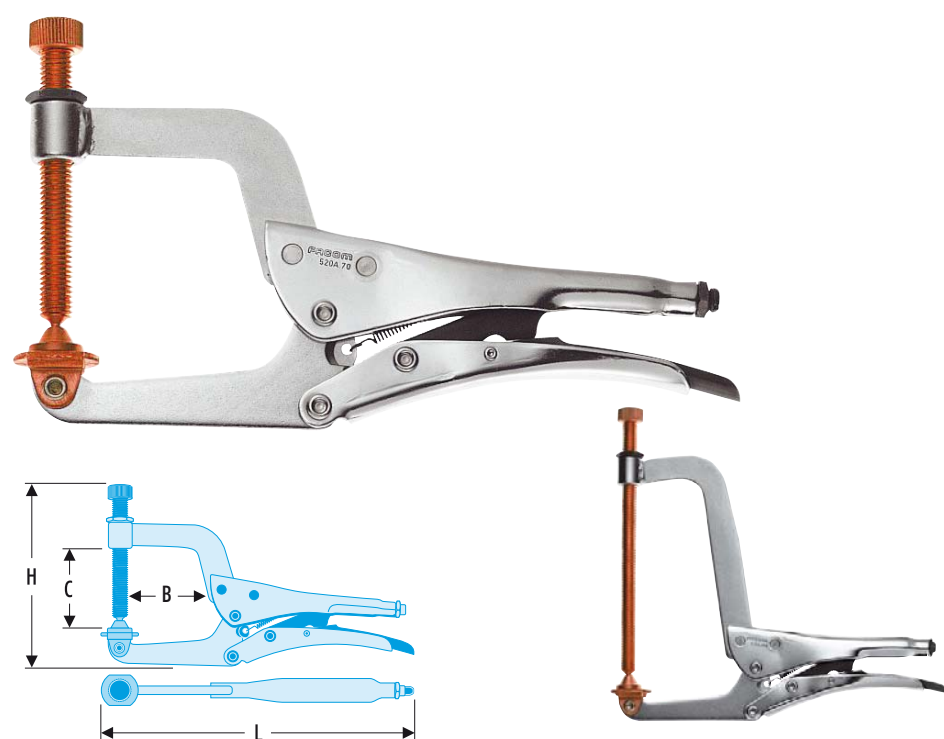
### ASME B107.500

- 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]
<b>514.45R</b>	45	45	60	19	90	175	0,270
<b>514A.65</b>	70	65	100	12	150	300	0,905
<b>514A.240</b>	230	240	100	20	165	460	1,420
<b>514A.240R</b>	230	240	100	32	165	460	1,530
<b>514A.400</b>	370	400	100	20	165	630	1,705

## Bar clamp lock-grip pliers

### 520A - Lock-grip G-clamps

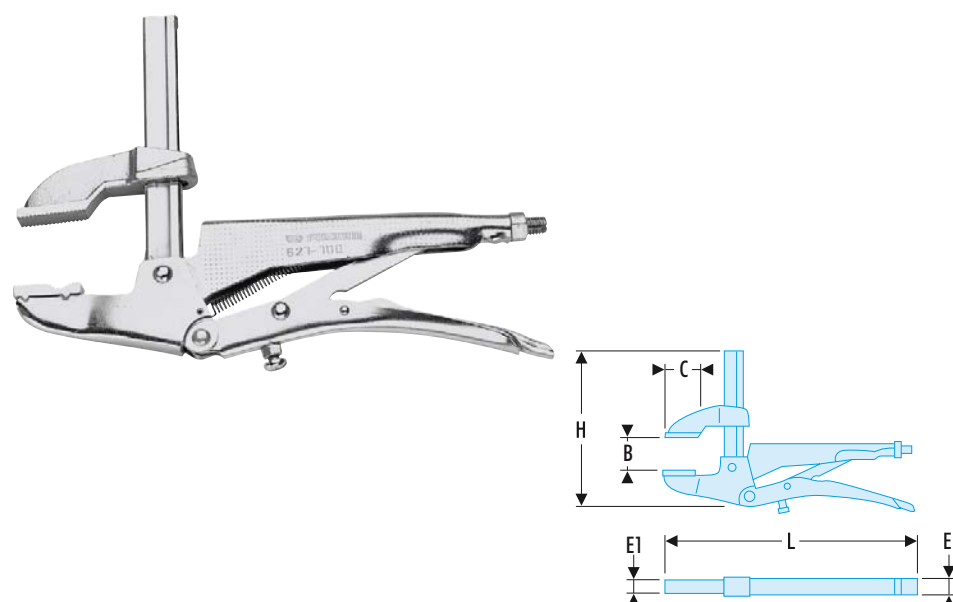


### ASME B107.500

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

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

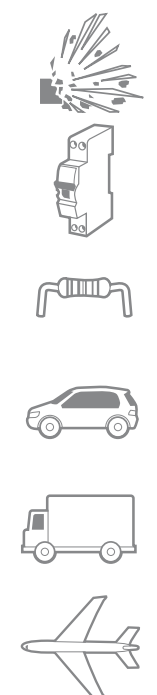
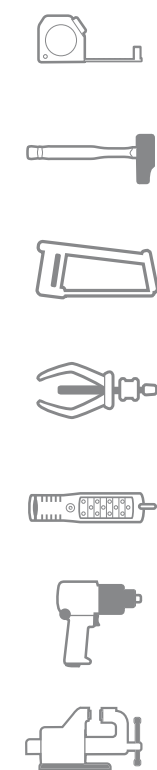
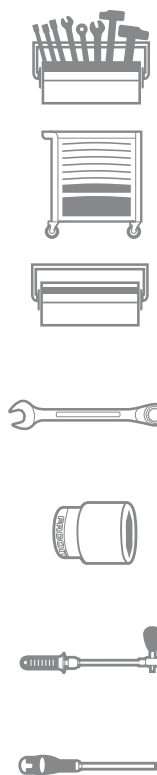
### 521 - G-clamp pliers with sliding jaw



### 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]
<b>521.100</b>	100	65	28	15	190	260	1,020
<b>521.150</b>	150	65	28	15	240	260	1,110
<b>521.200</b>	200	65	28	15	290	260	1,180





## Heavy-duty end nippers

### HIGH PERFORMANCE NIPPERS AND CUTTERS

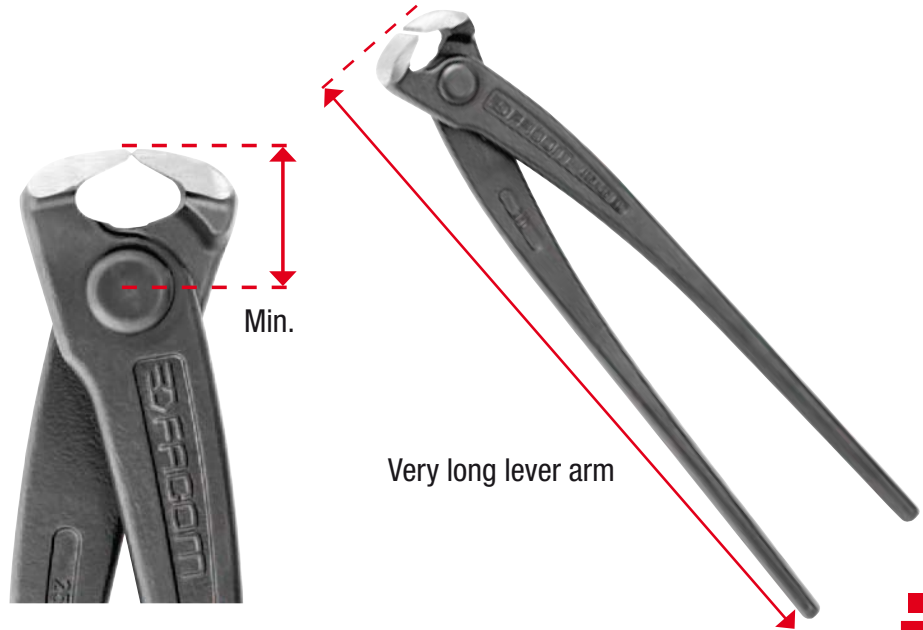
#### CUTTING EFFORT REDUCED TO A MINIMUM

#### For tying and cutting in one operation

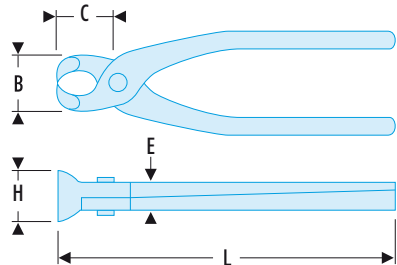
- Clean cut.
- Cutting edges sharpened after heat treatment for cleanly cutting lacing cord.

#### Maximum cutting power.

- Offset pivot.
- Maximum accessibility.
- Tapered shape.



#### 495A - Heavy-duty end nippers



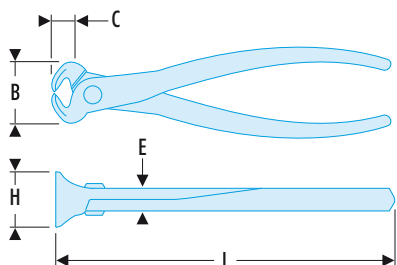
#### NF ISO 9242, ISO 9242, DIN ISO 9242

- 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/mm<sup>2</sup>.
- Finish: burnished, polished head.

➤	B [mm]	C [mm]	E [mm]	H [mm]	L [mm]	ΔΔ [g]
<b>495A.20EL</b>	28	10,0	12	20	200	240
<b>495A.22EL</b>	31	10,5	13	23	220	310
<b>495A.25EL</b>	35	12,0	14	25	250	390
<b>495A.28EL</b>	35	12,0	14	25	280	450
<b>495A.30EL</b>	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/mm<sup>2</sup>).
- 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]
<b>491.18G</b>	39	11,5	14,6	32	180	300
<b>491.20G</b>	39	11,5	14,6	32	200	400
<b>491.22G</b>	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.

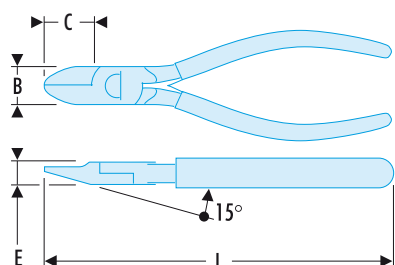
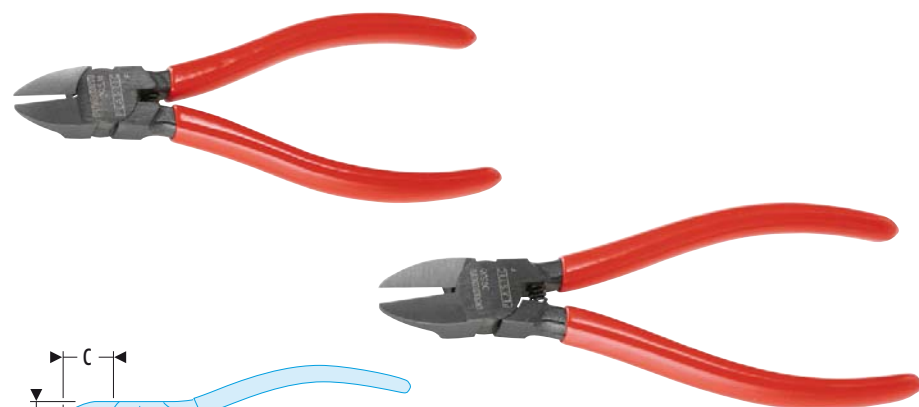


Flush cut



Plastics cutters

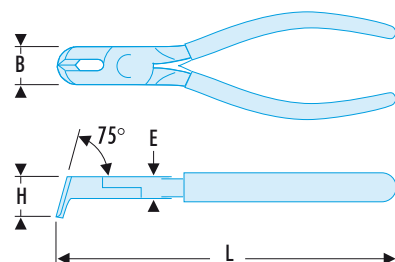
395 - Diagonal plastics cutters



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

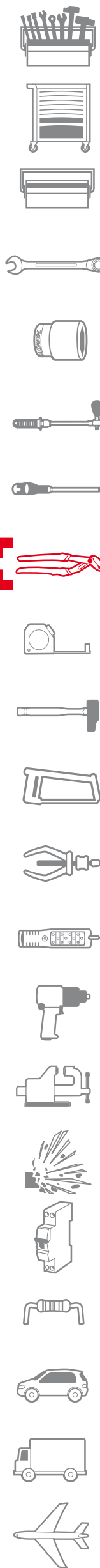
➤	B [mm]	C [mm]	d maxi [mm]	E [mm]	L [mm]	ΔΔ [g]
<b>395.14</b>	16	20	6	10	140	115
<b>395.16</b>	18	22	7	11	160	150

75° plastics cutters



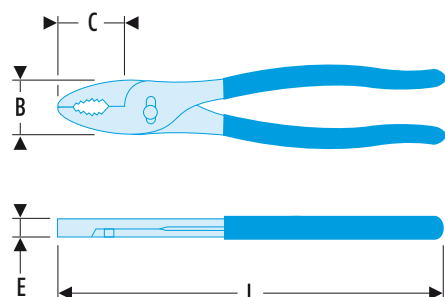
- 75° cutting edges.
- Opening return spring.
- Finish: polished burnish, red PVC grips.

➤	B [mm]	E [mm]	H [mm]	L [mm]	ΔΔ [g]
<b>396</b>	18	9	24,3	150	145



## Motorists pliers

### 186 - Motorists pliers



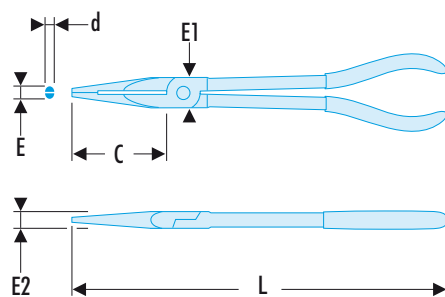
NF ISO 9343, ISO 9343, DIN ISO 9343, ASME B107.500

- 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]
<b>186.7CPG</b>	29	31	9,0	6,5	166
<b>186.8CPG</b>	31	35	10,5	7,5	204
<b>186.10CPG</b>	37	45	11,5	8,5	250

## Extra-long reach half-round nose pliers

### Extra-long reach half-round nose pliers

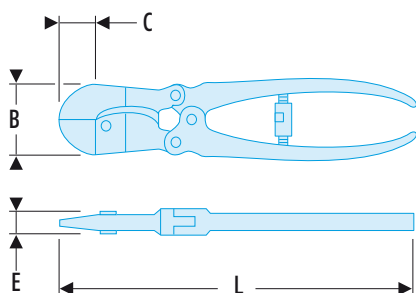


- For reaching components in confined spaces.
- Serrated jaws.
- Finish: polished, red PVC grips.

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

## Low-effort cutters

### Diagonal cutters

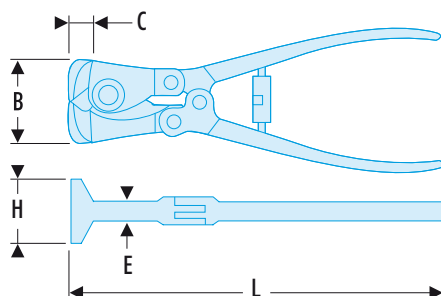


NF ISO 5749, ISO 5749, DIN ISO 5749, ASME B107.500

- Demultiplication system for increased capacity with minimum cutting effort. piano wire 200 kg/mm<sup>2</sup>, diameter 2.5 mm.
- Finish: red paint finish.

➤	B [mm]	C [mm]	E [mm]	L [mm]	ΔΔ [g]
<b>171.20EL</b>	37	22	16	200	515

### End-cutters



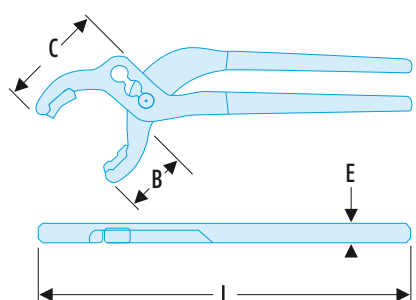
NF ISO 5748, ISO 5748, DIN ISO 5748, ASME B107.500

- Compound leverage for increased capacity with minimum cutting effort. piano wire 200 kg/mm<sup>2</sup>, diameter 2.5 mm.
- Finish: red paint finish.

➤	B [mm]	C [mm]	d maxi [mm]	E [mm]	H [mm]	L [mm]	ΔΔ [g]
<b>191A.22EL</b>	48	9	2,5	17	34	210	660

## "Connector" pliers

### 410 - "Connector" pliers



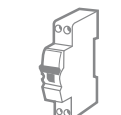
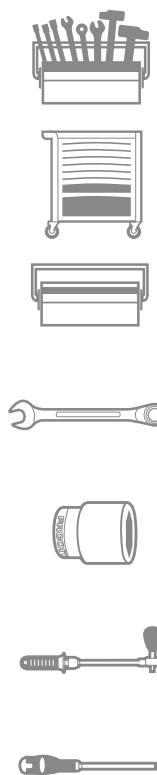
ASME B107.500

- 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).

➤	B [mm]	C [mm]	E [mm]	L [mm]	ΔΔ [g]
<b>410</b>	68	47	10	230	320
<b>410.S</b>	68	47	10	230	320





## ▣ 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

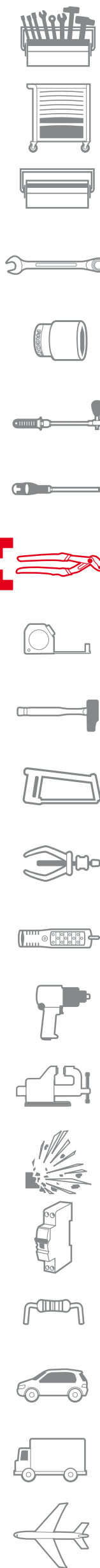


- Including:
  - Locking multigrip pliers 181A.25CPE.
  - Diagonal cutters 192.16CPE.
  - Half-round nose pliers 185.20CPE.
  - Combination pliers 187.18CPE.
- Supplied in a cardboard box.
- Weight: 1.020 kg.

▣ **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



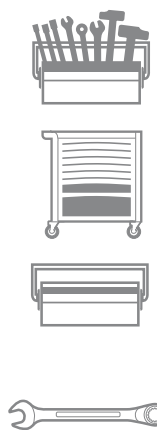
- Including:
    - Multigrip pliers 181EF.25CPE.
    - Multigrip lock-grip pliers T5.L.
    - Tray PL.330.
- Weight: 1.158 kg.



## MOD.PR7 PR7 - 2-piece adjustable plier module



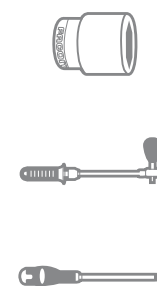
- Including:
  - Multigrip pliers 181EF.25CPE.
  - Short-nose lock-grip pliers 500.
  - Tray PL.330.
- Weight: 1.094 kg.



## MOD.PR8 PR8 - 2-piece adjustable plier module



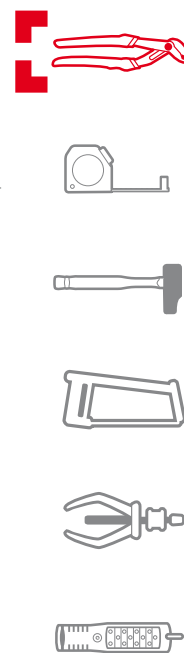
- Including:
  - Multigrip pliers 180.CPE.
  - Short-nose lock-grip pliers 500.
  - Tray PL.330.
- Weight: 1.094 kg.



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



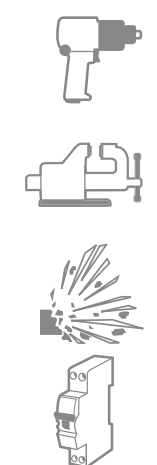
- Including:
  - Locking multigrip pliers 181A.25CPE.
  - Long-nose lock-grip pliers 501.
  - Tray PL.330.
- Weight: 1.094 kg.



## 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.

