



AUTOMOTIVE



MOBILE LIFTING EQUIPMENT

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FLUO

RFID



LIFTING EQUIPMENT RANGE

For FACOM, your safety is paramount



- Conformity with the European directive on machinery and standards checked by an independent laboratory.



- Detailed manual.
- Exploded views.
- Spare parts list.
- Maintenance log.



- Permanent identification markings.



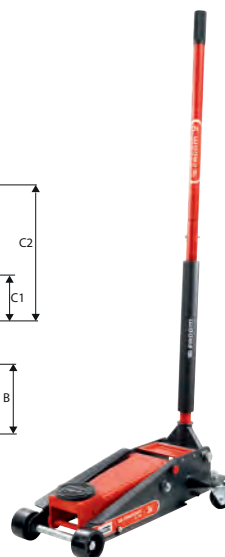
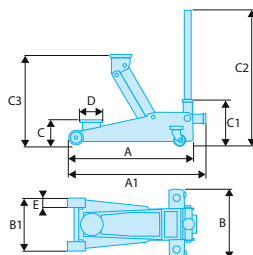
- Comprehensive safety instructions.



HEAVY-DUTY TROLLEY JACKS

3T mutil purpose car and LCV floor jack

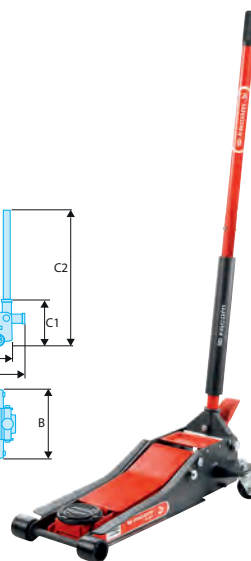
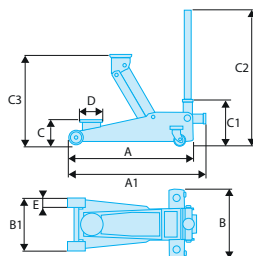
- Force: 3 t.
- Maximum lift: 465 mm
- Minimum under-body clearance: 133 mm.
- Quick-lift device brings jack into contact in a single movement.
- Under-body rubber plate.
- Tube fitted with protection foam.
- Silent-running polyurethane-tired wheels.
- Overload valve.
- Dimensions (L x W x H.): 690 x 337 x 163 mm.
- EC standard EN1494-ASME-PASE.



| DL.32A | A | A1 | B | B1 | C | C1 | C2 | C3 | D | E | H | Width | L | Tonnes | $\Delta\Delta$ |
|--------|------|------|------|------|------|------|------|------|------|------|------|-------|------|--------|----------------|
| | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [t] | [kg] |
| | 615 | 680 | 344 | 255 | 133 | 220 | 1305 | 465 | 108 | 48 | 163 | 337 | 690 | 2 | 30.5 |

2T gearbox & engine support trolley jack

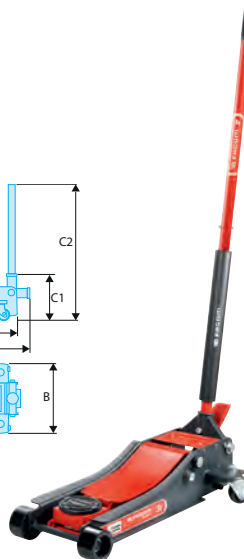
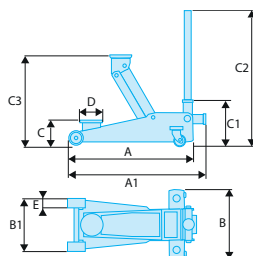
- Ideal for distributions and for low ground clearance vehicles, or fitted with rocker panel protections.
- Lifting capacity: 2 t.
- Maximum lift: 505 mm
- Minimum under-body height: 75 mm.
- Quick lift double piston mechanism.
- Load descent rate regulation.
- Supplied with steel / rubber under-body bearing plate.
- Silent-running polyurethane-tired wheels.
- EC standard EN1494-ASME-PASE.



| DL.2LP | A | A1 | B | B1 | C | C1 | C2 | C3 | D | E | Width | L | Tonnes | $\Delta\Delta$ |
|--------|------|------|------|------|------|------|------|------|------|------|-------|------|--------|----------------|
| | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [t] | [kg] |
| | 675 | 762 | 350 | 262 | 75 | 215 | 1305 | 505 | 108 | 53 | 350 | 675 | 2 | 32.5 |

3T extra-flat compact trolley jack

- Ideal for low ground clearance vehicles, or fitted with rocker panel protections.
- Load capacity: 3 t.
- Maximum lifting height: 533 mm
- Minimum height under body: 100 mm.
- Quick lift double piston mechanism.
- Load descent rate regulation.
- Supplied with steel / rubber under-body bearing plate.
- Silent-running polyurethane-tired wheels.
- EC standard EN1494-ASME-PASE.



| DL.3CLP | A | A1 | B | B1 | C | C1 | C3 | D | E | Width | L | Tonnes | $\Delta\Delta$ |
|---------|------|------|------|------|------|------|------|------|------|-------|------|--------|----------------|
| | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [t] | [kg] |
| | 688 | 778 | 375 | 285 | 100 | 230 | 533 | 108 | 52 | 375 | 688 | 3 | 42.0 |



HEAVY-DUTY TROLLEY JACKS

■ Foam jack holder

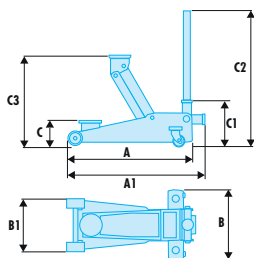
- This plate supports a block of high density foam that spreads the load over a large surface area and avoids damage to aluminium crankcases and under-bodies.
- Can be used on product Ref DL.32A - DL.2LP - DL.3CLP.
- Dimensions with foam block (L. x W. x H.): 305 x 155 x 40 mm.
- Reference of the foam alone DL.20-02M



| | $\Delta\Delta$ [kg] |
|-------------------|---------------------|
| DL.32A-SUP | 4 |

FLOOR JACKS "MAINTENANCE" RANGE

■ 1.5 t aluminium rolling jack

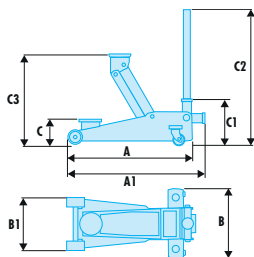


- Load capacity: 1.5 t.
- Maximum lifting height: 360 mm
- Minimum height under body: 90 mm.
- Double piston for fast lifting.
- Side handle for easier carrying and installation.
- Tube fitted with protection foam.
- Supplied with steel / rubber under-body bearing plate.
- Overload valve.
- Dimensions (L. x W x H.): 487 x 246 x 132 mm.
- EC standard EN1494+A1.



| | A [mm] | A1 [mm] | B [mm] | B1 [mm] | C [mm] | C1 [mm] | C2 [mm] | C3 [mm] | Oil Capacity [cm ³] | Tonnes [t] | $\Delta\Delta$ [kg] |
|----------------|--------|---------|--------|---------|--------|---------|---------|---------|---------------------------------|------------|---------------------|
| DL.15AL | 487 | 553 | 248 | 115 | 90 | 132 | 1082 | 360 | 80 | 1.5 | 30 |

■ 2.5 t aluminium rolling jack



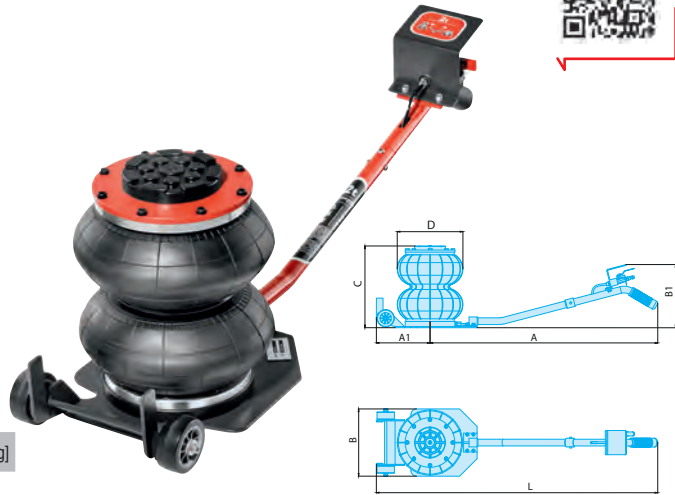
- Load capacity: 2.5 t.
- Maximum lifting height: 450 mm
- Minimum height under body: 100 mm.
- Double piston for fast lifting.
- Side handle for easier carrying and installation.
- Tube fitted with protection foam.
- Supplied with steel / rubber under-body bearing plate.
- Overload valve.
- Dimensions (L. x W x H.): 591 x 308 x 173 mm.
- CE compliance Standard EN1494+A1.



| | A [mm] | A1 [mm] | B [mm] | B1 [mm] | C [mm] | C1 [mm] | C2 [mm] | C3 [mm] | Oil Capacity [cm ³] | Tonnes [t] | $\Delta\Delta$ [kg] |
|----------------|--------|---------|--------|---------|--------|---------|---------|---------|---------------------------------|------------|---------------------|
| DL.25AL | 591.5 | 665 | 308 | 148 | 100 | 173 | 1370 | 450 | 220 | 2.5 | 32 |

2 t pneumatic jack

- Load capacity: 2 t.
- Maximum lifting height: 300 mm
- Minimum height under body: 120 mm.
- Descent speed regulation with the control valve.
- Dimensions (L. x W.): 250 x 1055 mm.
- CE compliance Standard EN1494+A1.
- Fitted with a discharge valve in case of air overpressure.
- Minimum operating pressure: 6 bar.



| | A [mm] | A1 [mm] | B [mm] | B1 [mm] | C [mm] | D [mm] | Tonnes [t] | $\Delta\Delta$ [kg] |
|----------------|--------|---------|--------|---------|--------|--------|------------|---------------------|
| DL.2A2L | 870 | 200 | 250 | 240 | 300 | 250 | 2 | 16 |

2 t safety trolley jack

- Load capacity: 2 t.
- Maximum lifting height: 500 mm
- Minimum height under body: 75 mm.
- Fast approach pedal.
- "Dead man" device.
- Load descent rate regulation.
- Additional safety device: mechanical locking at 290 mm (with a 2nd release pedal), the jack cannot drop accidentally.
- Supplied with rubber plate protection.
- Dimensions (L. x W.): 705 x 350 mm.
- Compliant with the machine directive 2006/42/CE - Standard EN1494+A1.



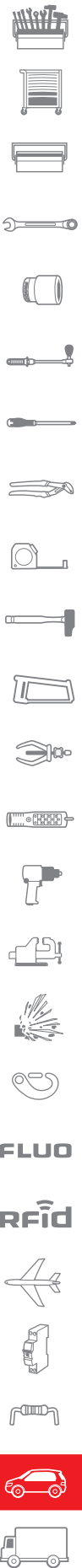
| | A [mm] | B [mm] | B1 [mm] | C [mm] | C2 [mm] | C3 [mm] | Tonnes [t] | $\Delta\Delta$ [kg] |
|--------------------|--------|--------|---------|--------|---------|---------|------------|---------------------|
| DL.200SECUA | 705 | 350 | 300 | 75 | 1110 | 500 | 2 | 30 |

5 t "LCV" rolling jack

- Load capacity: 5 t.
- Maximum lifting height: 685 mm
- Minimum height under body: 150 mm.
- Fast foot lifting.
- Handle adjustable in 3 positions 90, 135, 180 degrees.
- Overload valve.
- Dimensions (L. x W x H.): 1506 x 366 x 200 mm.
- EC standard EN1494+A1.

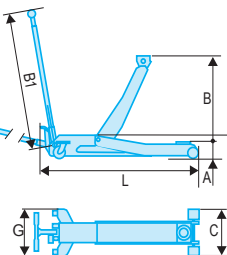


| | A [mm] | B [mm] | B1 [mm] | C [mm] | d [mm] | L [mm] | Oil Capacity [cm³] | Tonnes [t] | $\Delta\Delta$ [kg] |
|---------------|--------|--------|---------|--------|--------|--------|--------------------|------------|---------------------|
| DL.PL5 | 150 | 685 | 1153 | 150 | 685 | 1506 | 540 | 5 | 89 |



FLOOR JACKS "MAINTENANCE" RANGE

10 t "LUV" rolling jack

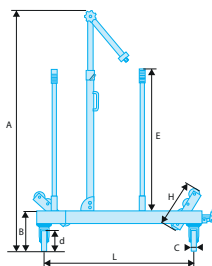
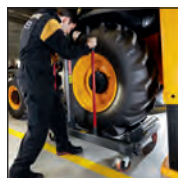


- Load capacity: 10 t.
- Maximum lifting height: 525 mm
- Minimum height under body: 160 mm.
- Fast foot lifting.
- Handle adjustable in 3 positions 90, 135, 180 degrees.
- Overload valve.
- Dimensions (L x W x H.): 1637 x 494 x 249 mm.
- EC standard EN1494+A1.



| | A [mm] | B [mm] | B1 [mm] | C [mm] | L [mm] | Oil Capacity [cm ³] | Tonnes [t] | ΔΔ [kg] |
|-----------------|--------|--------|---------|--------|--------|---------------------------------|------------|---------|
| DL.PL10A | 160 | 525 | 1153 | 333 | 1637 | 1050 | 10 | 129 |

Hydraulic tractor wheel lift

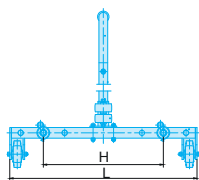
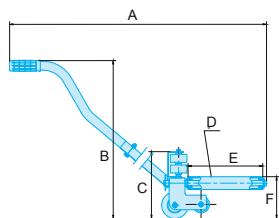


- Load capacity: 1.5 t.
- For easy and secured removal - refitting of wheels on tractors.
- 6 swivel rollers for easy wheel positioning upon refitting.
- Wheel diameter: 1350 to 2150 mm.
- Max width wheels: 800 mm.
- Adjustable width: 1200-1970 mm.
- Floor dimensions: 1310 x 1020 mm.
- 2 wheels with brakes.
- CE Compliance Standard EN1494+A1.



| | A [mm] | B [mm] | C [mm] | d [mm] | E [mm] | H [mm] | L [mm] | Tonnes [t] | ΔΔ [kg] |
|----------------|-----------|--------|--------|--------|--------|--------|---------|------------|---------|
| DL.1500 | 1350-2150 | 280 | 50 | 150 | 1000 | 76 | 210-845 | 1,5 | 125 |

HGV, bus" wheel lift



- Load capacity: 250 Kg.
- Allows easy and secured removal - fitting of wheels on buses, HGVs, forklift trucks
- 2 adjustable rollers for a capacity from 6.5" to 22.5"
- 2 rollers length: 280 mm

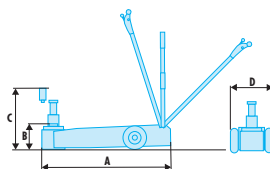


| | A [mm] | B [mm] | C [mm] | D [mm] | E [mm] | F [mm] | H [mm] | L [mm] | Tonnes [t] | ΔΔ [kg] |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|------------|---------|
| DL.275 | 1160 | 758 | 251 | 18 | 280 | 157 | 450 | 702 | 1,5 | 12,5 |

15-25-35T hydropneumatic jack

- Heavy duty construction.
- Long folding handle.
- 2 large wheels for better handling.
- Triple stage: 70 // 55 // 85.
- Air control on handle.
- Pivotal handle, 3 positions.
- Includes 2 adapters to increase lifting height.
- Compliant with EC standard EN 1494-ASME-PASE.

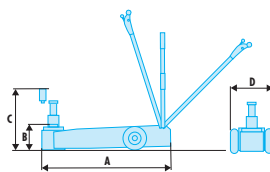
| DL.1050 | A [mm] | B [mm] | C [mm] | D [mm] | Oil Capacity [cm ³] | Tonnes [t] | ΔΔ [kg] |
|---------|--------|--------|--------|--------|---------------------------------|--------------|---------|
| DL.1050 | 686 | 151 | 361 | 333 | 1200 | 10 - 25 - 50 | 65 |



15-30T hydropneumatic jack

- Heavy duty construction.
- Long foldable handle.
- 2 large wheels for better handling.
- Double stage: 70 // 75.
- Air control on handle.
- Pivotal handle, 3 positions.
- Includes 2 adapters to increase lifting height and avoid contact with the chassis.
- Compliant with EC standard EN 1494-ASME-PASE.

| DL.1530C | A [mm] | B [mm] | C [mm] | D [mm] | Oil Capacity [cm ³] | Tonnes [t] | ΔΔ [kg] |
|----------|--------|--------|--------|--------|---------------------------------|------------|---------|
| DL.1530C | 538 | 151 | 296 | 289 | 1500 | 15 - 30 | 48 |



MOBILE LIFTING ACCESSORIES FOR HYDROPNEUMATIC JACKS

Bottle Jacks

Designed for heavy-duty professional use: the welded base provides enhanced strength to the jack, reducing risks of leaks.

Can be used for special applications:

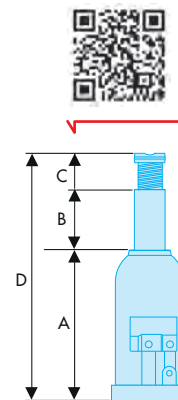
- The internal pump system allows for horizontal use as a pusher jack.
- CE



DL.BTI - Heavy duty series bottle jacks

- Capacity: 2t, 5t, 8t, 12t, 20t, 30t.
- Designed for heavy-duty professional use.
- Welded base plate jacks, control in the axis: Stronger, more stable, less leaks.
- Heat and surface treated pump shaft and actuator.
- Allows for horizontal use as a pusher jack.
- Complies with directive on machinery 2006/42/CE.

| DL.28BTI | A [mm] | B [mm] | C [mm] | D [mm] | Oil Capacity [cm ³] | Tonnes [t] | ΔΔ [kg] |
|-----------|--------|--------|--------|--------|---------------------------------|------------|---------|
| DL.28BTI | 178 | 177 | 52 | 317 | 0.7 | 2 | 2.4 |
| DL.58BTI | 198 | 122 | 70 | 390 | 15 | 5 | 3.7 |
| DL.88BTI | 198 | 124 | 72 | 394 | 20 | 8 | 5.6 |
| DL.128BTI | 238 | 160 | 80 | 468 | 37 | 12 | 8 |
| DL.208BTI | 270 | 160 | - | 430 | 62 | 20 | 13 |
| DL.308BTI | 280 | 165 | - | 440 | 83 | 30 | 18.4 |



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AXLE STANDS

Pair of 3 t axle stands



- Load capacity: 3 t.
- Axle stands with rack and locking pins.
- 9 height settings from 247 to 300 mm.
- Pin chained to the stand.
- Reliable and sturdy construction
- 4-foot base with welded plates for enhanced stability and stiffness.



| | H [mm] | Width l [mm] | L [mm] | $\Delta\Delta$ [kg] |
|--------------|--------|--------------|--------|---------------------|
| DL.C3 | 188 | 207 | 247 | 7.0 |

Pair of 6 t axle stands



- Load capacity: 6 t.
- Axle stands with rack and locking pins.
- 11 height settings from 400 to 620 mm.
- Pin chained to the stand.
- Reliable and sturdy construction.
- 4-foot base with welded plates for enhanced stability and stiffness.



| | H [mm] | Width l [mm] | L [mm] | $\Delta\Delta$ [kg] |
|--------------|--------|--------------|--------|---------------------|
| DL.C6 | 250 | 285 | 400 | 14.00 |

Pair of 22 t axle stands



- Load capacity: 22 t.
- Axle stands with rack and locking axis.
- 4 height settings from 338 to 500 mm.
- Pin linked by wire with storage system.
- Reliable and sturdy construction.
- Square base with welded plates for enhanced stability and stiffness.



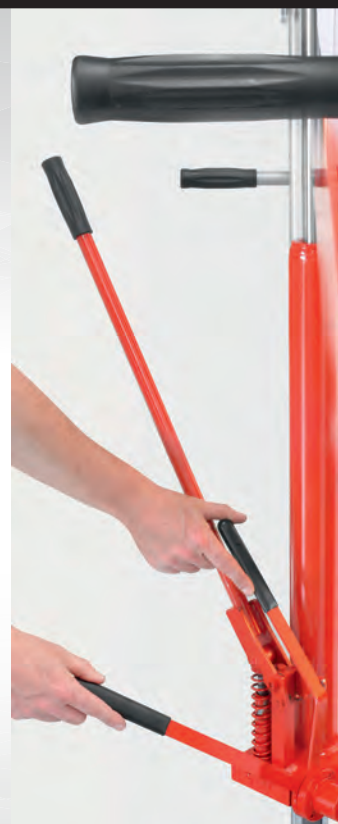
| | H mini [mm] | Width l [mm] | L [mm] | $\Delta\Delta$ [kg] |
|-----------------|-------------|--------------|--------|---------------------|
| DL.PL22A | 338 | 250 | 250 | 27.5 |

WORKSHOP CRANES

WORKSHOP CRANES

Exclusive performance:

- Easy boom length adjustment without tool nor pin.
- Load lowering with one millimetre accuracy with the high-precision control.
- Rotating jack at 270°: controls boom rising and lowering by the back or side of the crane.



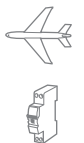
1 t workshop crane

- 1 t folding workshop crane.
- Tool-free jib extension
- Rotating controller: 270°, double acting for quick lift.
- Easy use, pivoting rear wheels.
- Synthetic wheels for low rolling noise.
- Capacity: 1 t.
- 3 positions: 500, 750, 1000 kg.
- Dimensions open: 450 x 1520 x 978 mm.
- Floor dimensions: 1520 mm.
- Max height: 2500 mm.
- CE-Jack with anti-overload valve.



FLUO

RFid



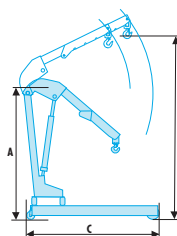
| | H maxi [mm] | H mini [mm] | ΔΔ [kg] |
|---------------|-------------|-------------|---------|
| DL.1GP | 2500 | 147 | 80.0 |

WORKSHOP CRANES

1 t europalette workshop crane



- 1 t folding workshop crane compatible with EU pallet.
- Tool-free jib extension.
- Easy use, pivoting rear wheels.
- Capacity: 1 t.
- 4 positions: 500, 670, 830.1000 kg.
- Max length from arm to hook: 1360 mm
- Width 838 mm, inside the forks
- Footprint: 1527 x 992 mm.
- Hook height: 128-2128 mm.
- Jack fitted with overload valve.
- CE Compliance Standard EN1494+A1.



| | A [mm] | B [mm] | C [mm] | Tonnes [t] | $\Delta\Delta$ [kg] |
|-----------------|--------|--------|--------|------------|---------------------|
| DL.500EU | 1613 | 2128 | 1527 | 1 | 86 |

LOAD BALANCERS

Device removal jack 500 kg



- Supplied with rubber pad, reversible fork and holes to pass a holding chain.
- Power: 500 kg.
- Min height: 1160 mm.
- Max height: 1960 mm.
- Floor footprint: 530 x 590 mm.
- EC compliant.



| | H maxi [mm] | H mini [mm] | $\Delta\Delta$ [kg] |
|--------------|-------------|-------------|---------------------|
| DL.50 | 1960 | 1160 | 32 |

■ **Lifting plate for 500 Kg jack**

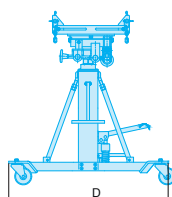
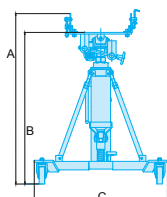
- This plate supports a block of high density foam that spreads the load over a large surface area and avoids damage to guards.
- Usable on product Ref DL.50.
- Dimensions with foam block (L. x W. x H.): 305 x 155 x 40 mm.
- Reference of the foam alone DL.20-02M



| DL.50SUP | $\Delta\Delta$ [kg] |
|----------|---------------------|
| | 4 |

■ **Device removal jack 1000 kg**

- Max load 1 ton.
- Adjustable height:
 - Minimum 895 mm
 - Maximum 1820 mm
- Footprint (L. x W.): 790 x 945 mm.
- Castors including 2 with brakes.
- Head tilts in two axes with adjustment wheels and safety chains.
- Foot control: rising, lowering.
- Easy movement with the handling grip.
- CE compliance Standard EN1494+A1



| DL.1000 | A [mm] | B [mm] | C [mm] | D [mm] | Oil Capacity [cm ³] | Tonnes [t] | $\Delta\Delta$ [kg] |
|---------|--------|--------|--------|--------|---------------------------------|------------|---------------------|
| | 1000 | 899 | 790 | 945 | 2570 | 1 | 80 |

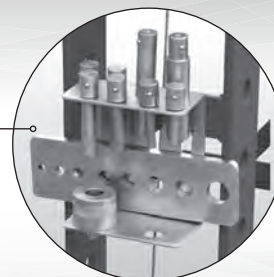


HYDRAULIC PRESSES

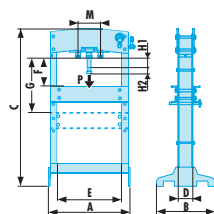
HYDRAULIC PRESSES

30t and 50t Workshop presses

- Table raised by a single operator using the integral winch (50t model).
- Integral pusher support.
- Jack mobile laterally.
- Supplied assembled with a pair of Vees.
- Piston with automatic return spring.
- Base allowing to move it using a pallet jack, ground anchorage.
- CE.



15 t hydraulic bench press

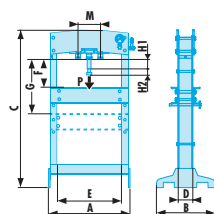
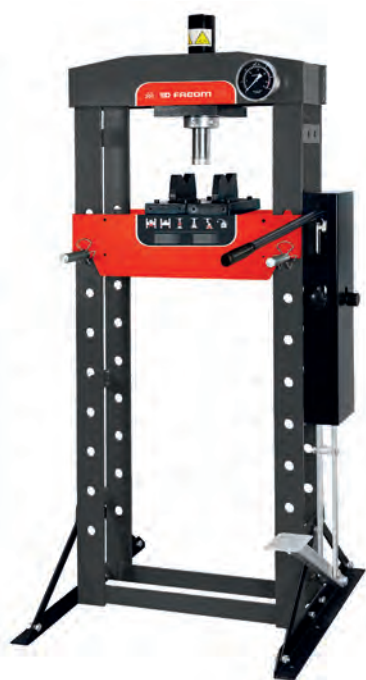


- Lateral adjustable jack.
- Eye-level pressure gauge.
- Piston with automatic return.
- Piston travel: 160 mm.
- Supplied fitted with pair of reversible V and set of pushers.
- CE Compliance Standard EN1494+A1.
- Floor dimensions: 700 x 540 mm.

| W.415WBA | A [mm] | B [mm] | C [mm] | D [mm] | E [mm] | Tonnes [t] | ΔΔ [kg] |
|----------|--------|--------|--------|--------|--------|------------|---------|
| | 700 | 540 | 882 | 965 | 500 | 15 | 75 |



20 t hydraulic press



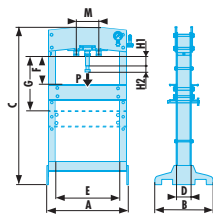
- Double pump for fast approach.
- Foot and hand control.
- Eye-level pressure gauge.
- Piston with automatic return.
- Piston travel: 185 mm.
- Supplied fitted with pair of reversible V and set of pushers.
- CE Compliance Standard EN1494A+.
- Floor dimensions: 730 x 560 mm.

| W.420 | A [mm] | B [mm] | C [mm] | D [mm] | E [mm] | Tonnes [t] | ΔΔ [kg] |
|-------|--------|--------|--------|--------|--------|------------|---------|
| | 730 | 560 | 1519 | 1626 | 510 | 20 | 112 |

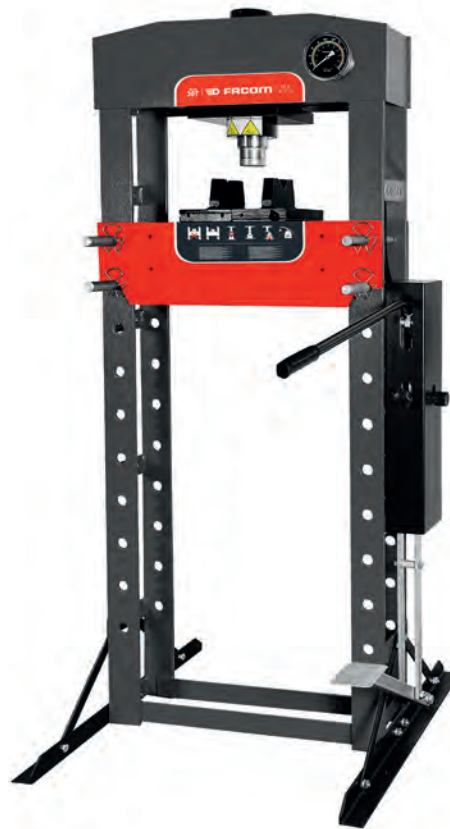


30 t hydraulic press

- Double pump for fast approach.
- Foot and hand control.
- Eye-level pressure gauge.
- Piston with automatic return.
- Piston travel: 150 mm.
- Supplied fitted with pair of reversible V and set of pushers.
- CE.EN1494A+
- Floor dimensions: 730 x 560 mm.

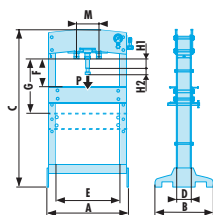


| W.430 | A [mm] | B [mm] | C [mm] | D [mm] | E [mm] | Tonnes [t] | $\Delta\Delta$ [kg] |
|-------|--------|--------|--------|--------|--------|------------|---------------------|
| W.430 | 795 | 700 | 1773 | 1830 | 535 | 30 | 167 |

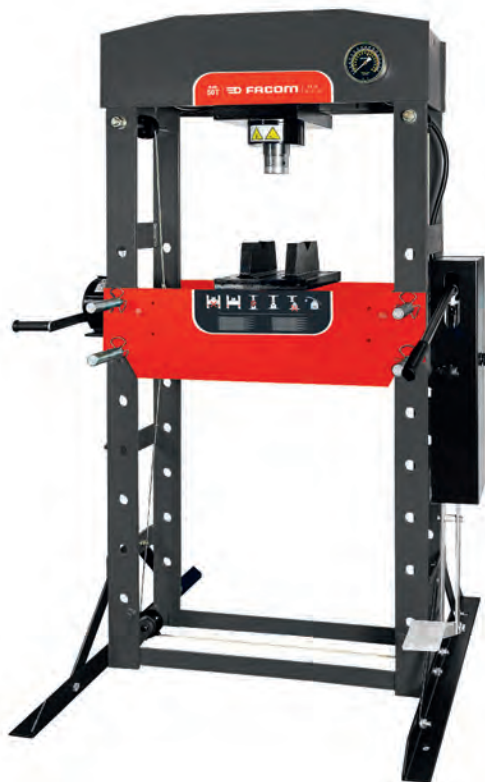


50 t hydraulic press

- Double pump for fast approach.
- Foot and hand control.
- Eye-level pressure gauge.
- Piston with automatic return.
- Piston travel: 200 mm.
- Supplied fitted with pair of reversible V and set of pushers.
- CE Compliance Standard EN1494A+.
- Floor dimensions: 730 x 560 mm.



| W.450 | A [mm] | B [mm] | C [mm] | d [mm] | E [mm] | Tonnes [t] | $\Delta\Delta$ [kg] |
|-------|--------|--------|--------|--------|--------|------------|---------------------|
| W.450 | 1030 | 800 | 1831 | 1877 | 730 | 50 | 300 |



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HYDRAULIC PRESSES

Set of 8 pushers 10 to 30 mm

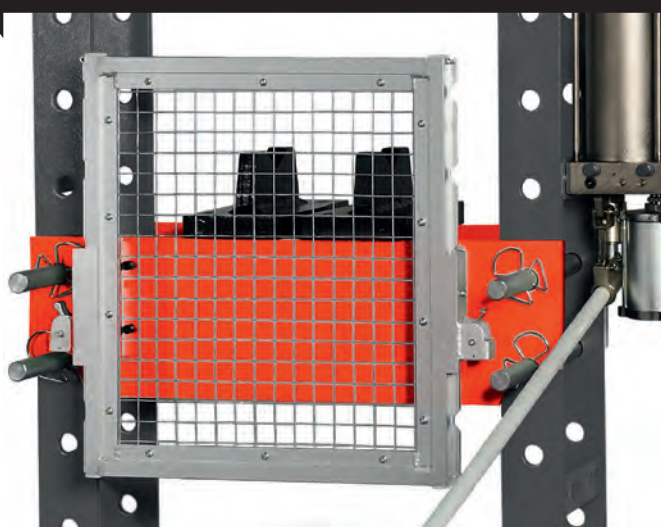


- Diam.10 mm - length 50 mm - max load 2 t.
- Diam.12 mm - length 60 mm - max load 3 t.
- Diam. 16 mm - length 60 mm - max load 8 t.
- Diam.18 mm - length 85 mm - max load 12 t.
- Diam. 20 mm - length 85 mm - max load 14 t.
- Diam. 22 mm - length 85 mm - max load 16 t.
- Diam. 25 mm - length 110 mm - max load 18 t.
- Diam. 30 mm - length 110 mm - max load 20 t.

W.PUNCHES-A

$\Delta\Delta$ [kg]
2.7

PROTECTION FOR WORKSHOP PRESSES



Flexibility

- Several height positions of the protection according to the part's size. Allows to position the protection flush with the part for large parts.
- Adapts to 20t, 30t and 50t workshop presses.

W.PROTECT20 For press 20t W.420

W.PROTECT30 For press 30t W.430

W.PROTECT50 For press 50t W.450

Press protector - multi-model



- Protections adaptable to news Facom models except model W.430MA and W 410WB , W.415WB .
- Protections compatible with older models:
 - Presses for W.PROTECT : W.430BO , W.430L , W.450MA.
 - Presses for W.PROTECT1 : W.430H , W.430ML , W.450HP , W.450PN.
- Easy installation . (Aluminum frame to put on the chassis).
- Easy opening closure (sliding protection with screw locking).
- Integrated handle to the " glass" by cutting.

| | H [mm] | L [mm] | P [mm] | $\Delta\Delta$ [kg] |
|-------------------|--------|--------|--------|---------------------|
| W.PROTECT | 522 | 446 | 404 | 8,2 |
| W.PROTECT1 | 522 | 570 | 404 | 8,0 |

INSPECTION CREEPERS

HEADLIGHT BEAM ADJUSTER

Simple and precise

**Double laser aiming**

- Upper laser line perpendicular to the vehicle.
- Single laser for centring on the insert.

Can be used on all types of vehicles and inserts

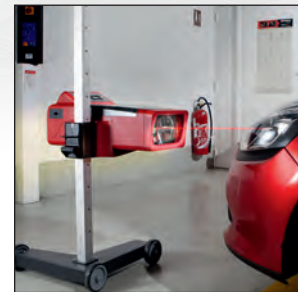
- For headlight inserts between 20 and 150 cm.
- Also suited to xenon, LED, halogen headlights.
- Also suited to Matrix headlights.
- Adjustment of low beam, high beam and fog lights.

Built-in digital luxmetre

- Checks lighting intensity in low and high beam.

**Rolling base**

- Accurate side displacement from one insert to the other.

**Vertical deviation adjustment**

- According to the insert's height, up to - 4%.

Domed glass lens

- Clear and precise concentration of the light beam on the inside panel for fine adjustment.

Headlight beam adjuster

- Dual laser aiming headlight adjustment unit.
- Digital luxmeter, checks headlight and dim light intensity.
- CE certified, supplied with a certificate.
- Complies with the new standards for LED headlights.
- Adjustable level.
- Vertical deviation adjustable to -4%.
- Domed glass lens, clear and accurate concentration of the light beam.
- Column in extruded aluminium, lens length between 20 and 150 cm.

| | |
|------|---------------------|
| 740A | $\Delta\Delta$ [kg] |
| | 27 |



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POWER TOOLS

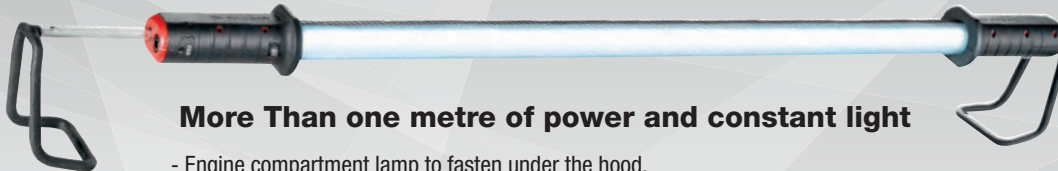


A comprehensive range suited to your needs



SPECIFIC BODYWORK LAMPS

Rechargeable light ramp - 779.UH



More Than one metre of power and constant light

- Engine compartment lamp to fasten under the hood.
- Can be placed under the vehicle dome light to light the cab

2 modes :

- NORMAL :**
1,000 lumen - 4h operating TIME.
- BOOST :**
2,000 lumen - 2h operating time.



248 SMD LEDs.

- Battery charge indicator.
 - Can be used with the cable or the battery.
 - Resists to chemicals.
- Dimensions: from 1,397 to 2,108 mm (extendable arms).



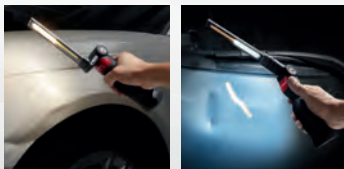
Wireless bodywork inspection lamp - 779.CML



Avoid colour errors!
Applications: paint, polish, operation



Magnet base with hook, swivel insert.

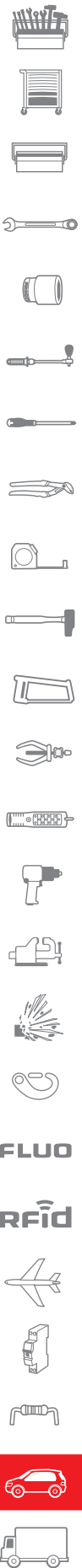


Zone preparation.

- 2 setting modes:**
- 4,500 K for light surfaces.
 - 6,500 K for dark surfaces.

500 lumen for 3 hours operating time

- CRI (Colour Rendering Index): 95.
- The higher the colour rendering index (CRI), the closer the light to natural light.
 - A high CRI is helpful in paint works and the identification of faults



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INSPECTION CREEPERS

■ Inspection creeper



- High density foam padded vinyl headrest resistant to automotive fluid.
- Frame made of ovoid-shape tube: no protruding angle to improve comfort and better wheel fastening.
- Maximum height: 100 mm.
- Max. chassis load: 150 kg.
- 6 wheels.

| | Width l [mm] | L [mm] | ΔΔ [kg] |
|---------------|--------------|--------|---------|
| DTS.1B | 630 | 1010 | 8.2 |

■ Estrado com rodas para inspeção - almofadado uso intensivo



- Adjustable headrest.
- Tool tray.
- High density foam padded vinyl headrest resistant to automotive fluid.
- Maximum height: 100 mm.
- Max. chassis load: 150 kg.
- 6 wheels.

| | Width l [mm] | L [mm] | ΔΔ [kg] |
|---------------|--------------|--------|---------|
| DTS.2B | 630 | 1010 | 10.0 |

■ Mid-height work seat



- Ideal for working on wheels, brakes and bodywork.
- High resistance shape memory thick PVC CUshion.
- High stability on 4 castors diameter 75 mm.
- Magnetised surface to receive screws and small components.
- Seat height: 395 mm.
- Dimensions (L. xW.): 385 x 385 mm.

| | Width l [mm] | L [mm] | ΔΔ [kg] |
|---------------|--------------|--------|---------|
| DTS.4A | 630 | 1010 | 5.5 |

Non-magnetic wing cover with suction fasteners

- Suction fastener system: non-scratch, quick-to-install.
- Each suction fastener can support 3 kg.
- Suitable for use with sheet metal, aluminium and composite materials.
- Adapts to all vehicle types.
- Cut-out provided for wheels.
- Easy maintenance.
- Impact and scratch resistant.
- High quality finish.



| FACOM | $\Delta\Delta$ [g] |
|-------|--------------------|
| CR.D2 | 480 |

PRY BARS

Set of 3 pry bars

- Numerous uses: suspension, gear train, bodywork, etc.
- Sturdy blade minimising lever spring effect.
- Set comprising: D.3-7 - D.3-12 - D.3-18.
- Supplied in thermoformed tray.



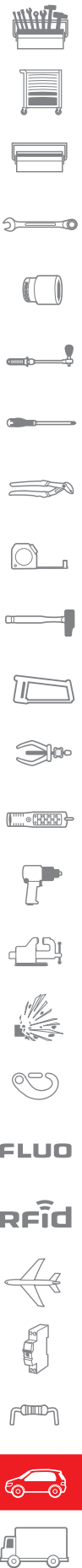
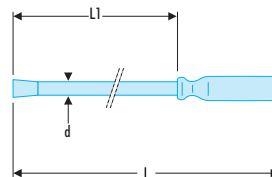
| FACOM | H [mm] | Width l [mm] | L [mm] | $\Delta\Delta$ [kg] |
|-------|--------|--------------|--------|---------------------|
| D.3J3 | 40 | 145 | 670 | 1.7 |

D.3 - Pry bars

- Numerous uses: suspension, gear train, bodywork, etc.
- Sturdy blade minimising lever spring effect.

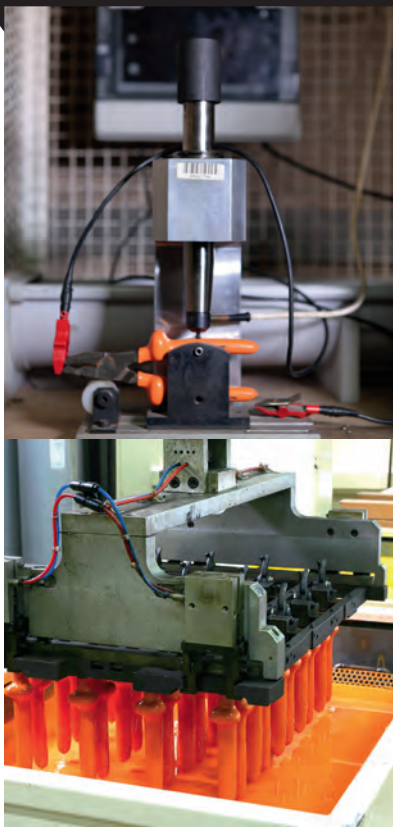


| FACOM | d ["] | L [mm] | L1 [mm] | $\Delta\Delta$ [g] |
|--------|-------|--------|---------|--------------------|
| D.3-7 | 3/8 | 292 | 165 | 275 |
| D.3-12 | 3/8 | 422 | 305 | 345 |
| D.3-18 | 1/2 | 635 | 460 | 810 |
| D.3-24 | 1/2 | 787 | 610 | 1000 |
| D.3-30 | 5/8 | 915 | 740 | 1700 |



CONSIGNING KITS

ELECTRIC VEHICLE: FACOM EXPERTISE



Facom, designer-manufacturer of 1,000 Volt tools

- Leveraging their expertise in designing and making professional tools, Facom offers a range of tools and equipment adapted to maintenance of electric-hybrid vehicles.

Safety and performance requirements.

- The particularities of electric-hybrid vehicles require specific tools and working in a 1,000 Volt environment requires observing particularly stringent safety measures.

Maintenance to be reinvented

- Design of vehicles, methods and requirements of maintenance of electric-hybrid vehicles clearly changes from habits taken in "combustion" engines. It is a whole new profession!

Facom's automotive know-how

- In France and globally, Facom is known for their in-depth knowledge of the specific requirements of automotive maintenance. Facom's know-how in 1,000 Volt tooling is the ideal partner for your "electric-hybrid" workshop.



▪ **Toolkit for electric and hybrid vehicles**



- A 3/8" 1,000 Volt insulated ratchet-socket case, comprising:
 - 6 sockets: 8 - 10 - 11 - 12 - 13 - 14 mm.
 - 1 3/8" insulated T handle.
 - 2 insulated offset wrenches, dim. 10 - 12 mm.
 - 1 1,000 Volt insulated screwdriver for 5.5 x 125 flat-head screws and one 1,000 Volt Phillips® 2 x 125 head screws.
 - 1 pair of insulating gloves to EN 60903 and directive CE/89/686 category C, resistant to acid and ozone (size 10).
 - 1 pair of protection overgloves conformant to directive CE/89/686 (size 10).
 - 1 voltage absence tester conformant to NF EN 61010-600V cat 3 and IEC 61243-3 (VAT/DDT).
 - 1 neutral phase marking, continuity test, 30 mA differential circuit breaker test. Phase rotation indication.
 - Plastic case with padlock clasp (length: 650 mm).



CM.HYELPB ΔΔ [kg]
5.9

▪ **Toolkit for PSA Ion and C-Zero vehicles**



- Including:
 - 1 1,000 Volt insulated 3/8" square drive socket.
 - 4 1,000 Volt insulated sockets: 10 - 11 - 12 - 13 mm.
 - 1 1,000 Volt insulated 3/8" extension.
 - 1 1,000 Volt insulated open end wrench.
 - 1 1,000 Volt insulated half-ROUND PLiers.
 - SET SUlited to Peugeot iOn and Citroën C-zero vehicles.



CM.ELPSA ΔΔ [kg]
1.35

SIGN POSTS AND CHAINS

■ **Yellow and black marker posts**



- Marker posts.
- Double hook for plastic chains.

|  | H [mm] | ΔΔ [kg] |
|---|--------|---------|
| EV.BAP | 910 | 4.4 |

■ **Red and white marker posts**



- Marker posts.
- Double hook for plastic chains.

|  | H [mm] | ΔΔ [kg] |
|---|--------|---------|
| EV.BAP-RN | 910 | 4.4 |

■ **Safety zone marker chain - black and yellow links**



- Length: 25 m.
- Link diameter: 7.3 mm.

|  | ΔΔ [kg] |
|---|---------|
| EV.CH | 2.4 |

■ **Safety zone marker chain - red and white links.**



- Length: 25 m.
- Link diameter: 7.3 mm.

|  | ΔΔ [kg] |
|---|---------|
| EV.CH-RN | 2.4 |

■ **Safety posters**



- Warning post to be fitted to marker posts EV.BAP or EV.BAP-RN.
- Dimensions (L. x W.): 450 x 150 mm.

|  | ΔΔ [g] |
|---|--------|
| EV.PP | 268 |

DRAIN PLUG WRENCHES

OIL DRAINING : OIL DRAIN WRENCH AND MAGNETIC BITS

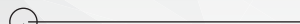
Simple and effective "Clean-hand" oil drain

D.48



Hinged wrench

- Power position for easy unlocking.
- Driver position for pre-unlocking and fast removal.
- Spring-assisted joint for constant retaining load. No risk of slipping.



Saves time

- Magnetised drain plug bits avoid drain plugs from falling and being lost in oil collection tanks.
- The complete work support positionable on the arms of the oil collectors ensures all accessories are handy during oil change operations.



Drain kit

- Including:
- Drain plug wrench D.48.
 - 15 magnetic bits.
 - General-purpose support tray.



General-purpose work support

- Support for storing all drain sockets and bits with the wrench.
- Easy fastening on oil collection containers or just laid on a worktop.



Fittings magnetic



Square bits: 8 and 10 mm.



6-point bits: 8, 10, 12, 13, 14 and 17 mm.



6-point sockets: 13, 14, 17, 18, 19 and 21 mm.



Torx®: T45



- Handy**
- Oil drain bits are removed easily with the 3/8" ejector drive.

Safer Cleaner

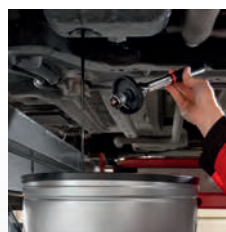
- Protection cup**
- No contact of hands with hydrocarbons.
 - Eliminates risks of burns.
 - Reduces wiping paper consumption in the workshop.
- Video demonstration on your smartphone



1 Drain plug unlocking in power position.



2 Drain plug removal completed in driver position, oil drops are stopped by the protection cup.



3 Drain plug dripping above the oil collector.



4 Bit ejector: easy bit changing even when covered in oil, just push the protection cup.



DRAIN PLUG WRENCHES

Oil change kit

- Including:
 - 1 drain wrench: D.48.
 - Magnetic male square bits: 8 - 10 mm.
 - Magnetic female 6-point bits: 8 - 10 - 12 - 13 - 14 - 17 mm.
 - Magnetic female 6-point sockets: 13 - 14 - 17 - 18 - 19 - 21 mm.
 - Magnetic Torx® 45 bits.
 - Support for wrench D.48 and bits.



| | |
|---|---------------------|
|  | $\Delta\Delta$ [kg] |
| D.48-KIT | 1.410 |

Hinged oil drain wrench

- Oil drain wrench.
- 3/8" drive.
- Length: 280 mm.
- Oil drip cup: D.48-RC.



| | | |
|---|--------|--------------------|
|  | L [mm] | $\Delta\Delta$ [g] |
| D.48 | 280 | 440 |

Oil collector

- Oil collector for gravity oil change.
- For use under an elevator bridge or in a pit.
- Tack capacity 80 L.
- Height adjustable from 1.14 m to 1.68 m.
- Broad steel collector. Ø 530 mm.
- Anti-projection grid.
- 4 orientable wheels.
- Level indicator.
- Tank draining by compressed air with safety valve.
- Drain plug for maintenance.



| | |
|---|---------------------|
|  | $\Delta\Delta$ [kg] |
| OD.80G | 33.8 |



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DRAIN PLUG WRENCHES

■ Universal funnel



- Universal locking clamp fastens instead of motor oil filling plugs, drums, etc.
- Resists to hydrocarbons.
- For filling motor oil, coolant, etc.
- Height: 275 mm.
- Min clamp diameter: 34 mm.
- Max clamp diameter: 60 mm.

| | H [mm] | ΔΔ [g] |
|---------------|--------|--------|
| DM.UOF | 275 | 242 |

■ Drain-plug wrench



- For composite drain plugs on VW, AUDI, SKODA, SEAT vehicles.
- For TFSI 1.2L 1.4L 1.8L 2.0L engines.
- Composite drive handle.
- Height: 95 mm.
- Handle width: 80 mm.

| | H [mm] | ΔΔ [g] |
|-----------------|--------|--------|
| D.1VAG-H | 95 | 42 |

■ Drain plug bit



- For composite drain plugs on VW, AUDI, SKODA, SEAT vehicles.
- For TFSI 1.2L 1.4L 1.8L 2.0L engines.
- 3/8" and 17 mm female drive bits, 6-sided male bits.

| | H [mm] | ΔΔ [g] |
|-----------------|--------|--------|
| D.1VAG-B | 34 | 26 |

■ Drain-plug wrench and bit set



- Comprising:
 - 1 wrench D.1VAG-H.
 - 1 drain-plug bit D.1VAG-B.

| | ΔΔ [g] |
|---------------|--------|
| D.1VAG | 68 |

MAGNETIC OIL DRAIN PLUG BITS AND SOCKETS

Set of magnetic oil drain bits and sockets on rack

- Prevents drain plugs from falling in oil trays and collectors.
- Including:
 - Magnetic drain plug bits: MB.S08 - MB.S10 - MB.H08 - MB.H10 - MB.H12 - MB.H13 - MB.H14 - MB.H17 - MB.T45.
 - Magnetic drain plug sockets: MB.13 - MB.14 - MB.17 - MB.18 - MB.19 - MB.21.



| | |
|---------------|--------------------|
| | $\Delta\Delta$ [g] |
| MB-J15 | 654 |

MAGNETIC OIL-DRAIN PLUG APPLICATION LIST

| | MB.13 | MB.14 | MB.17 | MB.18 | MB.19 | MB.21 | MB.T45 | MB.S08 | MB.S10 | MB.MH08 | MB.MH10 | MB.MH12 | MB.MH13 | MB.MH14 | MB.MH17 |
|------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| PSA | • | • | | | • | • | | • | | • | | | | | |
| Renault | • | • | • | | • | • | | • | • | • | | | | | |
| Dacia | | | | | | | | • | | | | | | | |
| VAG | • | | • | • | • | | | | | | • | • | • | | • |
| Mercedes | • | • | | | | | | • | | • | | | | | • |
| MCC | • | | | | | | | | | | | | | | |
| BMW | | | • | | | | | | | • | | | | | |
| Opel | • | • | • | | • | | | • | • | • | | • | | | |
| Mini | • | • | | | | | | | | • | | | | | |
| Jaguar | • | | | | • | | | • | | | | | | | |
| Rover | | | | | • | • | | | | | | | | | |
| Austin | | | • | | | | | | | | | | | | |
| Land Rover | | | | | | • | | | | | | | | | |
| Fiat | • | | • | • | • | | • | | | • | • | • | | | |
| Alfa Roméo | | • | • | • | | | | | | • | | • | • | | |
| Lancia | | | | • | • | | | | | • | • | • | | | |
| Toyota | • | • | | | | • | | • | | • | | | | | |
| Lexus | | • | | | | | | | | | | | | | |
| Nissan | • | • | • | | • | • | | • | | • | | | | | |
| Honda | • | | • | • | | • | | | | | | | | | |
| Suzuki | • | | • | | • | | | | | | | | | | |
| Mitsubishi | • | | • | | | | | • | | | | | • | | |
| Kia | | | • | | • | | | | | | | | | | |
| Daewoo | | | • | | • | | | | | | | | | | |
| Hyundai | | | • | | | | | • | | | | | | | |
| Daihatsu | | • | | | | | | | | | | | | | |
| Mazda | • | | • | | • | | | • | | | | | | | |
| Subaru | | | • | | | • | | | | | | | | | • |
| Ford | • | | • | | • | • | | • | • | • | • | • | | • | |
| Chevrolet | | | • | | | | | | | | | | | | |
| Jeep | • | | | | | | | | | | | | | | |
| Chrysler | • | | • | | • | | | | | • | | | | | |
| Volvo | • | | • | | • | • | | • | | • | | | | | |
| Saab | • | | | | • | | | | | | | | | | |
| Lada | | | • | | | | | | | | | • | | | |

3/8" 6-point magnetic oil-drain sockets

- Prevents drain plugs from falling in oil trays and collectors.
- 3/8" drive bit.
- 6-point socket.



| | | |
|--------------|---------------|--------------------|
| | Hex Size [mm] | $\Delta\Delta$ [g] |
| MB.13 | 13 | 22 |
| MB.14 | 14 | 23 |
| MB.17 | 17 | 34 |
| MB.18 | 18 | 42 |
| MB.19 | 19 | 45 |
| MB.21 | 21 | 49 |



MAGNETIC OIL DRAIN PLUG BITS AND SOCKETS

3/8" Torx® magnetic oil-drain key



- Prevents drain plugs from falling in oil trays and collectors.
- 3/8" drive bit.
- Torx® 45.

| Part Number | Weight [g] |
|-------------|------------|
| MB.T45 | 27 |

3/8" magnetic oil-drain key



- Prevents drain plugs from falling in oil trays and collectors.
- 3/8" drive bit.

| Part Number | Weight [g] |
|-------------|------------|
| MB.S08 | 30 |
| MB.S10 | 34 |

3/8" magnetic oil-drain male hex bits



- Prevents drain plugs from falling in oil trays and collectors.
- 3/8" drive bit.

| Part Number | Weight [g] |
|-------------|------------|
| MB.H08 | 30 |
| MB.H10 | 32 |
| MB.H12 | 36 |
| MB.H13 | 38 |
| MB.H14 | 40 |
| MB.H17 | 45 |

GEARBOX AND DIFFERENTIAL DRAIN PLUG BITS

3/8" oil-drain female square bit 10 mm.



- 3/8" square drive bit.
- Square: 10 mm.

| Part Number | Weight [g] |
|-------------|------------|
| D.106-10 | 40 |

GEARBOX AND DIFFERENTIAL DRAIN PLUG BITS

3/8" drain plug bit with male triangle

- 3/8" square drive bit.
- Square: 10 mm.



| | |
|----------|--------------------|
| | $\Delta\Delta$ [g] |
| D.109-10 | 40 |

Drain plug bit with XZN pattern

- XZN pattern: diam. 16 mm.
- Drive 3/8".
- V.A.G. gearbox



| | |
|----------|--------------------|
| | $\Delta\Delta$ [g] |
| D.120-16 | 40 |

OTHER DRAIN PLUG WRENCHES

Drain plug wrench for CITROËN, RENAULT, PEUGEOT engine

- Square bit: 8 x 10 mm.
- Length: 230 mm.
- Finish: chromed.



| | |
|-------|--------------------|
| | $\Delta\Delta$ [g] |
| D.13A | 230 |

Drain plug wrench for CITROËN, PEUGEOT engine

- Male square: 10 mm.



| | |
|-------|--------------------|
| | $\Delta\Delta$ [g] |
| P.27B | 270 |

Engine, gearbox and differential drain plug wrench

- For auto makers: ALFA ROMEO, FIAT, LANCIA.
- Male hex: 12 mm.



| | |
|-------|--------------------|
| | $\Delta\Delta$ [g] |
| F.63C | 280 |



OIL-FILTER WRENCHES

A SOLUTION FOR EACH TYPE OF FILTER



Cartridge filter:

- To remove cartridge filters, when space allows, strap wrenches are the easiest and fastest to use.
- When space is critical, use automatic or adjustable wrenches.



Removable filters with a composite bell - 6 point drive:

- To remove the bell, use a D.163-"size of 6-point" socket.
- With their specific design, sockets for composite oil filter bells allow to work in the most crowded environments, while preserving the composite bell from any damage.



DE series

DP series

Removable filters with a composite bell - other drives:

- To remove these oil filter bells, always use an adjustable wrench of the DE or DP series.
- Their specifications and rigidity eliminate any risks of breakage of the composite bell.
- Determine the reference of the adjustable wrench with the oil filter dimensions:
 - DE for notched filters, DP for pointed filters.
 - The first group of numbers is the filter diameter.
 - The second group of numbers is the number of points or notches.
- Example: DP.88-16 - adjustable wrench 88 mm, 16-point.

Fast oil-filter wrench



- Fast oil-filter wrench for cars.
- Max length: 290 mm (for filters diam.: 66 --> 106 mm).
- Ratchet effect increment: 5°.
- Spare strap U.46ACL06 for oil filter wrench.



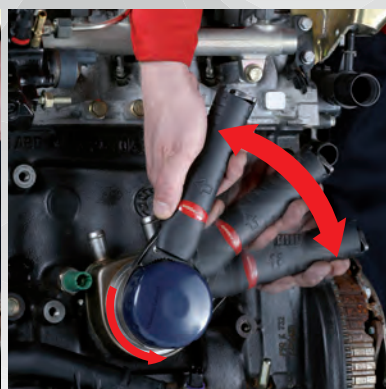
| | |
|---------|--------------------|
| | $\Delta\Delta$ [g] |
| U.46ACL | 345 |

U.48 : AUTOMATIC OIL-FILTER WRENCH

Saves time: automatic, ratchet effect



Set

Position and
releaseRatchet effect ensures
quick tightening and
loosening**No adjustment.**

- Fits diameters 66 to 105 mm.
- Strap torque control for optimum ratchet effect.
- Universal torquing force regardless of the size of the filter.
- Available for HGV for 106 to 150 mm filters.



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OIL-FILTER WRENCHES

Automatic oil-filter wrench for cars



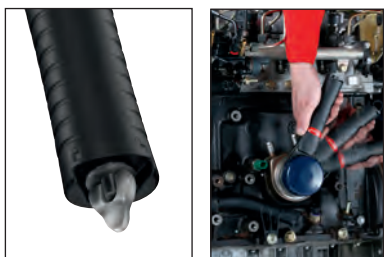
- For cars.
- For filters diam.: 66 --> 105 mm.
- Ratchet effect increment: 5°.
- Optimised automatic tightening.
- Spare strap U.48-2 for oil filter wrench.

| | |
|---|--------------------|
|  | $\Delta\Delta$ [g] |
| U.48 | 285 |

Automatic oil-filter wrench for HGV's



- For HGV's and farming vehicles.
- For filters diam.: 106 --> 145 mm.
- Ratchet effect increment: 5°.
- Optimised automatic tightening.
- Spare strap U.48-PL2 for oil filter wrench.




| | |
|---|--------------------|
|  | $\Delta\Delta$ [g] |
| U.48PL | 290 |

Multi-make oil change and filter module



- Compatible with the Facom modular storage system:
 - Compatible with CHRONO XL, CHRONO+, JETXL and JET+ roller cabinets.



| | | | | | |
|---|--------|--------------|--------|------------|---------------------|
|  | H [mm] | Width l [mm] | L [mm] | Contents | $\Delta\Delta$ [kg] |
| MOD.U48A | 40 | 175 | 418 | XL.PL.399A | 1.0 |

OIL-FILTER WRENCHES

Adjustable oil-filter wrench for cars



- Automatic oil filter wrench for cars.
- Max length: 260 mm (for filters diam.: 65 --> 105 mm).
- Spare strap U.46-2A for oil filter wrench.

| | |
|-------------|--------------------|
| | $\Delta\Delta$ [g] |
| U.46 | 310 |

Adjustable oil-filter wrench for HGV's



- Automatic oil filter wrench for HGV's and farming vehicles.
- For filters diam.: 105 --> 145 mm.
- Max length: 300 mm.
- Spare strap U.46APL2 for oil filter wrench.

| | |
|---------------|--------------------|
| | $\Delta\Delta$ [g] |
| U.46PL | 350 |

Chain wrench

- To remove oil filters when access is not possible with an oil-filter wrench.
- 1/2" drive bit.
- For oil filters: 50 --> 110 mm.



| | |
|--------------|--------------------|
| | $\Delta\Delta$ [g] |
| D.149 | 280 |

Self-gripping oil-filter wrench for cars

- For cars.
- 3/8" drive bit.
- For oil filters: 65 --> 120 mm.



| | |
|---------------|--------------------|
| | $\Delta\Delta$ [g] |
| D.151A | 580 |

Self-gripping oil-filter wrench for HGV's

- For HGV's and farming vehicles.
- 1/2" drive bit.
- For oil filters diam.: 95 --> 165 mm.



| | |
|----------------|---------------------|
| | $\Delta\Delta$ [kg] |
| D.151PL | 1,345 |



OIL-FILTER WRENCHES

Automatic oil-filter wrench for PEUGEOT, CITROEN, FORD engine



- For Duratorq TDCI / HDI (DW10C) and 2.2 L Duratorq TDCI/ HDI (DW12C) Diesel engines for PEUGEOT, CITROËN and FORD. Diesel engine.
- 3/8" female square drive. 12-point ring 27 mm.
- For major time gain.




|  | $\Delta\Delta$ [g] |
|---|--------------------|
| FW.D163-27 | 568 |

FW.P - Automatic oil-filter wrench for RENAULT engine



- Oil filters;
 - For 66 mm 6-notch.
 - For 76 mm 12-notch.
 - For 86 mm 18-notch.
 - For 96 mm 18-notch.
- Indispensable for RENAULT and DACIA vehicles.
- For petrol and diesel engines.



|  | d [mm] | Notches | $\Delta\Delta$ [g] |
|---|--------|---------|--------------------|
| FW.P66-6 | 66 | 6 | 260 |
| FW.P76-12 | 76 | 12 | 333 |
| FW.P86-18 | 86 | 18 | 349 |
| FW.P96-18 | 96 | 18 | 360 |

HDI gasoil filter tool



- For 2.0 l and 2.2 l HDI engines on Peugeot, CITROËN, VOLVO, FORD, MITSUBISHI.



|  | $\Delta\Delta$ [g] |
|---|--------------------|
| DM.FR1 | 157 |

CAP WRENCHES AND SOCKETS

Cap wrenches with flats



- To be used when a strap wrench cannot be used.
- 3/8" square drive.

| Ref | Filter [mm] | ΔΔ [g] |
|-------|-----------------|--------|
| D.139 | 14-point Ø 65.0 | 135 |
| D.140 | 14-point Ø 74.0 | 160 |
| D.141 | 15-point Ø 92.0 | 205 |
| D.159 | 14-point Ø 66.5 | 140 |
| D.160 | 15-point Ø 74.0 | 160 |
| D.161 | 15-point Ø 79.0 | 175 |
| D.162 | 15-point Ø 89.0 | 200 |
| D.164 | 8-point Ø 74.0 | 150 |

Notched cap wrenches



- To be used when a strap wrench cannot be used.
- 3/8" square drive.

| Ref | Notches | Filter [mm] | ΔΔ [g] |
|-------|---------|-------------|--------|
| D.154 | 6 | 66 | 200 |
| D.155 | 12 | 76 | 225 |
| D.156 | 18 | 86 | 268 |
| D.157 | 18 | 96 | 295 |

Set of 6 composite cap wrenches

- Including:
 - Cap wrenches: D.163-24 - D.163-27 - D.163-30 - D.163-32 - D.163-36 - D.163-38.
 - Module PL.472.
 - Plastic case BP.102.



| Ref | ΔΔ [kg] |
|----------|---------|
| D.163-J6 | 1.022 |

Composite cap wrench sockets

- Smaller shape and volume for better accessibility.
- 6-point profile for removal without damaging composite oil filter plugs.
- 3/8" drive.

| Ref | d [mm] | ΔΔ [g] |
|----------|--------|--------|
| D.163-24 | 24 | 94 |
| D.163-27 | 27 | 115 |
| D.163-30 | 30 | 111 |
| D.163-32 | 32 | 147 |
| D.163-36 | 36 | 168 |
| D.163-38 | 38 | 202 |



Composite cap wrenches with flats

- Special cap wrench to fit and remove composite notched oil filter plugs without damaging them.

| Ref | Notches | Filter [mm] | ΔΔ [g] |
|-----------|---------|----------------|--------|
| DE.66-18 | 18 | Ø 66 | 222 |
| DE.96-18 | 18 | Ø 99 | 286 |
| DP.76-16 | - | 16-point Ø 75 | 220 |
| DP.76-14 | - | 14-point Ø 76 | 218 |
| DP.88-16 | - | 16-point Ø 88 | 244 |
| DP.102-14 | - | 14-point Ø 102 | 274 |



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CAP WRENCHES AND SOCKETS

AUTOMATIC OIL-FILTER WRENCH



**Sturdy. Multi diameter.
Practical.**



- Single-hand positioning.
- Preserves the filter upon unscrewing.
- Self-tightening wrench: adjust automatically to filter size.
- Suited to all filters from 60 to 100 mm.
- Powerful torque (suited only to metal filters).
- Lifetime guarantee.



Operation



The wrench stay in the open position until it is fitted on the filter.



Automatic fastening on the filter at fitting (self-tightening wrench).

■ **Automatic cap wrench**



- Single hand positioning.
- Protects the filter when unscrewing.
- Self-tightening cap: automatic adjustment to filter size.
- Powerful torque (only for metal filters).
- Lifetime guarantee.
- For filters from 60 to 80 mm.



| | ΔΔ [g] |
|---------------|--------|
| C.48-1 | 388 |
| C.48-2 | 208 |

CAP WRENCHES AND SOCKETS

■ Heavy Goods Cap Wrench

- Single hand positioning.
- Protects the filter when unscrewing.
- Self-tightening cap: automatic adjustment to filter size.
- Powerful torque (only for metal filters).
- Lifetime guarantee.
- For filters from 100 to 120 mm.



| | |
|---|--------------------|
|  | $\Delta\Delta$ [g] |
| C.48-3 | 499 |

■ Set of 2 cap wrenches for L.V. / L.U.V.

- Set including:
 - C.48-1: for filters from 60 to 80 mm.
 - C.48-2: for filters from 80 to 100 mm.



| | |
|---|--------------------|
|  | $\Delta\Delta$ [g] |
| C.48-J2 | 876 |

■ Oil filter cap wrench for 4-cylinder TOYOTA engines

- For 4-cylinder petrol or diesel engines from 1.8L to 2.0L.
- Indispensable to avoid damage to TOYOTA aluminium oil filter caps.
- Double drive 1/2" square and 28 mm male 6-pin.
- Forged for more strength.



| | |
|---|--------------------|
|  | $\Delta\Delta$ [g] |
| DEPT1 | 170 |

■ Oil filter cap wrench for 4-, 6- and 8-cylinder TOYOTA engines

- For 4-, 6- and 8-cylinder diesel engines.
- Indispensable to avoid damage to TOYOTA aluminium oil filter caps.
- Double drive 1/2" square and 28 mm male 6-pin.
- Forged for more strength.



| | |
|---|--------------------|
|  | $\Delta\Delta$ [g] |
| DEPT2 | 208 |



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SPARK PLUG WRENCH SELECTION GUIDE AND RECOMMENDED TORQUES



FACOM spark plugs comply with the ISO 11168 standard

This standard guarantees :

- Sufficient play to enable the plug to engage in the cylinder head without risk of cross-threading.
- The spark plug's angle of freedom must also be limited to avoid damaging the insulation.

A range for each application.

- 3/8" socket: the most compact sockets. Most comprehensive range, 14 mm multi-point spark plug sockets are available only in this range.
- 1/2" sockets: most widely-used range, but not suited to modern multivalve engines.
- Hinged wrenches: ideal for congested spaces. Use for high productivity. To be used when engine layout prevents the use of a torque wrench.
- Box wrenches: compact and lightweight, particularly suited to tool bags



Torque tightening of spark plugs

- Cylinder heads are made of aluminium alloy. The cylinder heads of modern engines are subjected to increasingly high stresses. Reduction of thread diameters. Therefore, spark plugs must always be torqued. The J.208-50 torque wrench is ideal for tightening spark plugs.

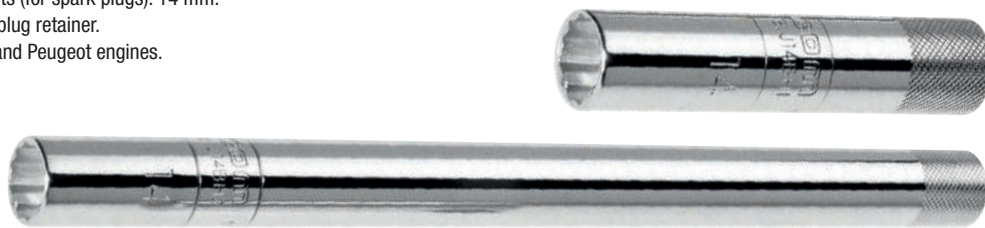
| Thread diameter (mm) | Flat seating (with seals) | | | Conical seating | |
|-------------------------------|---------------------------|-------|-------|-----------------|-------|
| | 18 | 14 | 12 | 18 | 14 |
| Cast-iron cylinder head (N.m) | 35-45 | 25-35 | 15-25 | 20-30 | 15-25 |
| Aluminium cylinder head (N.m) | 35-40 | 25-30 | 15-20 | 20-30 | 10-20 |

- Values indicated for information only, always refer to manufacturer values.

3/8" SQUARE DRIVE SOCKETS

3/8" square drive sockets for 14 mm bi-hexagonal spark plugs

- Slim profile sockets (for spark plugs): 14 mm.
- Fitted with spark plug retainer.
- For new Renault and Peugeot engines.
- 3/8" drive.



| ⌘ | d [mm] | L [mm] | ΔΔ [g] |
|-----------------|--------|--------|--------|
| B.J148H1 | 14 | 90 | 90 |
| B.J148H2 | 14 | 250 | 245 |

3/8" square drive sockets for 16, 18 and 21 mm spark plugs

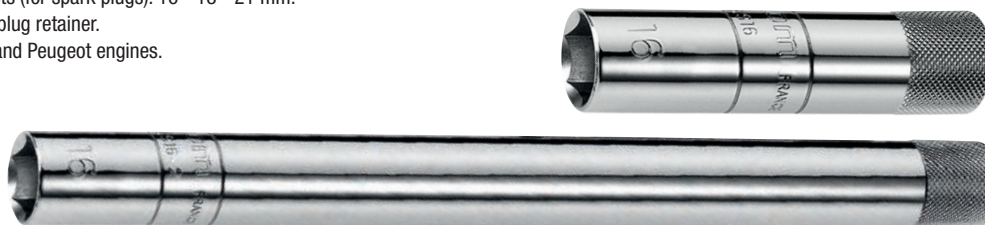
- Sockets with spark plug retainer.



| ⌘ | d [mm] | L [mm] | ΔΔ [g] |
|----------------|--------|--------|--------|
| B.J16A1 | 16 | 90 | 130 |
| B.J16A2 | 16 | 250 | 350 |
| B.J18A1 | 18 | 90 | 190 |
| B.J21A1 | 21 | 90 | 200 |

1/2" square drive sockets for 16, 18 and 21 mm spark plugs

- Slim profile sockets (for spark plugs): 16 - 18 - 21 mm.
- Fitted with spark plug retainer.
- For new Renault and Peugeot engines.
- 3/8" drive.



| ⌘ | d [mm] | L [mm] | ΔΔ [g] |
|----------------|--------|--------|--------|
| B.S16A1 | 16 | 90 | 130 |
| B.S16A2 | 16 | 250 | 350 |
| B.S18A1 | 18 | 90 | 190 |
| B.S21A2 | 21 | 250 | 650 |



HINGED WRENCHES

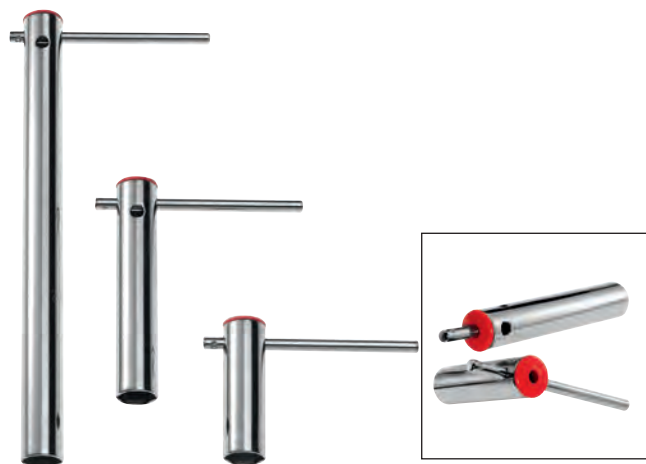
■ B.J - hinged wrenches for 16, 19 and 21 mm spark plugs



| REF | L [mm] | L1 [mm] | L2 [mm] | ΔΔ [g] |
|-----------------|--------|---------|---------|--------|
| B.J16R1B | 270 | 90 | 175 | 340 |
| B.J16R2B | 517 | 90 | 175 | 500 |
| B.J19R1B | 270 | 90 | 175 | 600 |
| B.J21R1B | 270 | 90 | 220 | 600 |

BOX WRENCHES FOR SPARK PLUGS

■ Box wrenches for 16 and 21 mm spark plugs



NF ISO 11168, ISO 11168

- Models L and M feature spark plug retainers.
- Removable tee-bar gives working angle at 90°.
- Tee-bar storage within wrench body.

| REF | d [mm] | Width l [mm] | L [mm] | ΔΔ [g] |
|---------------|--------|--------------|--------|--------|
| L.16AM | 22,0 | 160 | 160 | 235 |
| L.16AL | 22,0 | 300 | 300 | 395 |
| L.21C | 26,0 | 90 | 90 | 180 |
| L.21M | 26,0 | 160 | 160 | 280 |
| L.21L | 27,5 | 300 | 300 | 460 |

SPARK PLUG LEAD PLIERS

■ Spark plug lead pliers



- For disconnecting spark plug without harming leads.
- No damage to connectors.
- Dimensions (L. x W. x H.): 198 x 30 x 55 mm.

| REF | H [mm] | Width l [mm] | L [mm] | ΔΔ [g] |
|--------------|--------|--------------|--------|--------|
| DM.28 | 55 | 30 | 198 | 210 |

ROUND TIP METRIC THICKNESS GAUGES

Round tip metric feeler gauges

- Set of 19 feeler gauges (round tip): 4/100 --> 100/100 mm.
- Blade length: 90 mm.

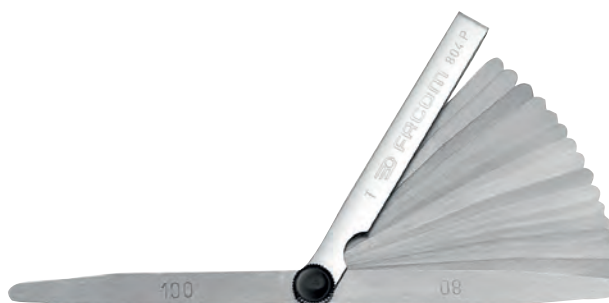
| 804 | $\Delta\Delta$ [g] |
|-----|--------------------|
| | 60 |



Sharp tip metric feeler gauges

- Set of 19 feeler gauges (tapered tip): 4/100 --> 100/100 mm.
- Blade length: 90 mm.

| 804.P | $\Delta\Delta$ [g] |
|-------|--------------------|
| | |



Anti-magnetic metric feeler gauges

- Set of 19 feeler gauges (tapered tip): 10/100 --> 100/100 mm.
- Blade length: 100 mm.
- Brass blades.

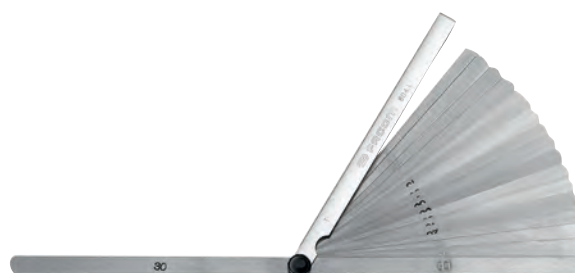
| 804.AM | $\Delta\Delta$ [g] |
|--------|--------------------|
| | 60 |



Round tip metric feeler gauges

- Set of 19 feeler gauges (round tip): 4/100 --> 25/100 mm.
- Blade length: 150 mm.

| 804.L | $\Delta\Delta$ [g] |
|-------|--------------------|
| | 92 |



INCH THICKNESS GAUGES

Inch thickness gauges

- Set of 26 feeler gauges (tapered tip): 15/10000 --> 250/10000 inches.
- Blade length: 3" 1/2 (88.9 mm).

| 804.U | $\Delta\Delta$ [g] |
|-------|--------------------|
| | 80 |



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SPARK PLUG ACCESSORIES

Flexible spark-plug fitter



- Helps engaging a spark plug thread in any location.
- For all types of spark plug.



| | L [mm] | ΔΔ [g] |
|--------------|--------|--------|
| DM.20 | 316 | 50 |

Screw starter



- Helps engage a spark plug thread in any location, regardless of the screw head.
- Square drive: 6 --> 11 mm.
- Length: 305 mm.



| | L [mm] | ΔΔ [g] |
|--------------|--------|--------|
| D.110 | 305 | 53 |

SPARK PLUG FILES

Contact file



- Thickness: 1 mm.



| | L [mm] | ΔΔ [g] |
|------------|--------|--------|
| 276 | 130 | 10 |

COMPLETE SPARK PLUG MODULE

Complete spark plug module



- Compatible with the Facom modular storage system:
 - Compatible with CHRONO XL, CHRONO+, JETXL and JET+ roller cabinets.

| Mod. | H [mm] | Width I [mm] | L [mm] | Contents | ΔΔ [kg] |
|------------------|--------|--------------|--------|----------|---------|
| MOD.BJ-GM | 40 | 350 | 418 | PL.661A | 2.2 |

Spark plug service module



- Compatible with the Facom modular storage system:
 - Compatible with CHRONO XL, CHRONO+, JETXL and JET+ roller cabinets.

| Mod. | H [mm] | Width I [mm] | L [mm] | Contents | ΔΔ [kg] |
|----------------|--------|--------------|--------|----------|---------|
| MOD.BJC | 40 | 175 | 418 | PL.669A | 1.5 |

Spark plug service module



- Compatible with the Facom modular storage system:
 - Compatible with CHRONO XL, CHRONO+, JETXL and JET+ roller cabinets.

| Mod. | H [mm] | Width I [mm] | L [mm] | Contents | ΔΔ [kg] |
|----------------|--------|--------------|--------|----------|---------|
| MOD.BSB | 40 | 175 | 418 | PL.668A | 1.2 |

Glow plug module



- Compatible with the Facom modular storage system:
 - Compatible with CHRONO XL, CHRONO+, JETXL and JET+ roller cabinets.

| Mod. | H [mm] | Width I [mm] | L [mm] | Contents | ΔΔ [kg] |
|----------------|--------|--------------|--------|----------|---------|
| MOD.BRA | 40 | 175 | 418 | PL.667 | 0.910 |

GLOW PLUG WRENCHES

3/8" square drive hinged wrenches for glow plugs

- Flexible spark plug fitter.
- Universal joint with friction springs for reaching socket angle required.
- Drive bit 3/8".
- Finish: polished chromed.

| Mod. | d [mm] | L [mm] | ΔΔ [g] |
|------------------|--------|--------|--------|
| B.10R8D | 12.0 | 176 | 114 |
| B.10R9D | 13.0 | 176 | 116 |
| B.10R9L | 13.0 | 177 | 125 |
| B.10R12AL | 17.0 | 178 | 142 |
| B.10R12B | 17.0 | 155 | 125 |



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GLOW PLUG TESTER

■ Glow plug tester



- To be used for glow plugs:
 - of all voltages.
 - in ceramic or metal.
- Power supply voltage from 11.8 volt to 13.6 volt.
- Voltage check between 3.5 and 12 volt.
- Easy LED readout.
- minimizes the risk of incorrect result interpretation.
- Optimized cable storage.



| | | |
|---|--|--------------------|
|  | | $\Delta\Delta$ [g] |
| DX.10A | | 250 |

AUTO ELECTRICS

AUTOMOTIVE TESTER



The electricity is a headache to you?

AUTO Ω METER



Easy to use
easy to understand

- 3 Functions = 3 Buttons.
- Multicolor screen simplifying diagnostics and measures.

False contact detection

- Single and immediate function.
- Simple pressing of a button.
- Immediate diagnostic.

Designed for all workshops

- Special for 12V & 24V circuits.
- Long contact tips for improved access.
- Voltmeter and Ohmmeter functions.

3 year warranty

TESTERS AND MULTIMETERS

■ Automotive multimeter



- Automotive electrical tester. 100% automatic. 3-color screen for easy interpretation of values. Resistance to impacts.
- False contact detector.
- Voltmeter.
 - Measures DC voltages up to 49 Volts.
 - Automatic detection of MLI / PWM signals.
 - Line test: automatic checking of power supplies with false contact detection.
- Ohmmeter.
 - Measures resistance up to 40 M Ω .
 - Continuity alarm.
- Supplied with a pair of measurement cables, contact tips, "alligator" clips and a protection bag.



| | | | | |
|---|--------------|--------|--------|--------------------|
|  | Width l [mm] | L [mm] | P [mm] | $\Delta\Delta$ [g] |
| DX.V12 | 70 | 150 | 40 | 380 |

ELECTRICITY - HG

714 A : AUTOMOTIVE MULTIMETER



In automotive electricity, the multimeter is the indispensable complement to "diagnostic cases". In addition to typical measurement functions: Voltmeter, Ammeter, Ohmmeter, specialised functions have been added for checking vehicles:



Cyclic ratio:

- Test EGR valves, petrol injectors, turbocharger wastegates.

Measures internal resistance of batteries.

- Detect battery faults causing voltage fluctuations. In certain vehicles, these fluctuations cause malfunction in electronic equipment.

Large-size bargraph

- for Lambda probe test.

Tachometer and cam angle functions to tune older vehicles with non-electronic ignition systems. The 714A is class III 600V, for work on voltages of hybrid and electric vehicles. (Within currently enforced procedures and regulations).



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Automotive multimeter



- Measures internal resistance of batteries.
- Automatic calibre.
- Voltmeter: AC / DC 0 --> 600 V.
- Ammeter: AC / DC 0 --> 400 mA.
- Ohmmeter: 0 0 --> 40 MO.
- Continuity and LED test.
- Temperature measurement.
- Cyclic ratio: 5% --> 99% .
- Cam angle.
- Tachometer.
- Frequency meter: 1 Hz --> 400 KHz.
- Compatible with clip-on ammeter Ref 711A.P500.

| | |
|------|--------------------|
| | $\Delta\Delta$ [g] |
| 714A | 1354 |

Megohmmeter and isolation tester



- Suited to hybrid and electric vehicles.
- Leak current detection.
- Protection cover included.
- Technical characteristics:
 - Isolation tester up to 4,000 Mohm at 250 V, 500 V, 1000 V.
 - AC / DC voltmeter: 0 to 600 V.
 - AC / DC ammeter: 0 to 400 mA.
 - Compatible with clip-on ammeters 711A.P500.
 - Ohmmeter: 0 to 40 MOhm.
 - Frequency meter, continuity tester, diode tester.

| | |
|-----|--------------------|
| | $\Delta\Delta$ [g] |
| 715 | 1100 |

TESTERS AND MULTIMETERS

■ Infrared thermometer



- Provides non contact infrared temperature measurement with laser guide or by contact with K thermocouple (not supplied).
- Infrared: measurement -60°C --> +500°C.
- D/S ratio (distance/surface): 11/1.
- Emissivity: adjustable.
- Mode: Min Max Differential, instant.
- Thermocouple measurement performance change according to the K probe.

| | |
|----------------|--------------------|
| | $\Delta\Delta$ [g] |
| DX.T100 | 328 |

■ Automotive voltage tester



- Filter diameter: 3 to 48 V.
- LED + or - polarity indicator.
- Complete with prodding probe, cable probe for testing insulated leads, and alligator clip.

| | | | | |
|------------|--------|--------------|--------|--------------------|
| | H [mm] | Width l [mm] | L [mm] | $\Delta\Delta$ [g] |
| 705 | 18 | 21 | 135 | 55 |

■ Diagnostic accessories



- Facilitates accessibility to connectors.
- For circuit up to 49 Volts.
- Comprising:
 - 1 nylon bag.
 - 2 measurement cables.
 - 2 needles.
 - 2 Pic probes.
 - 1 needle storage tube.

| | |
|---------------|--------------------|
| | $\Delta\Delta$ [g] |
| DX.SET | |

■ Diagnostic accessories



- For automotive diagnostics requiring measuring on small connectors without damaging them.
- All these accessories can be used with an electric tester or a diagnostic device.
- Examples of use: Airbag circuit testing, checking of MAP circuits, temperature and throttle valve position, voltage or current measurement.
- For circuit up to 49 Volts.
- Comprising:
 - 36 male connectors: DX.CONECT-1.
 - 36 female connectors: DX.CONECT-2.
 - 8-piece accessories set: DX.CONECT-3.
 - 12-piece diagnostic accessories set: DX.CONECT-4.

| | |
|------------------|---------------------|
| | $\Delta\Delta$ [kg] |
| DX.CONECT | 2,9 |

BATTERY CHARGERS

Fast charging, no need to disconnect the vehicle's battery during charging.



2 years

- 100% automatic.
- Charge all lead batteries: liquid, VLRA, AGM, GEL.
- Compatible with Start & Stop vehicles and batteries.
- Interface in 5 languages.
- Polarity reversing protection.
- Protection against incorrect voltage.
- Spark-free technology.
- 8-step smart charge program.
- Battery maintenance mode.
- Output voltage limited at 14.7 V.

VERSATILE 12 V



BC.126

- Nominal voltage: 12V
- Maximum output current: 6A

BUILT-IN SHOWROOM MODE



BC.1215

- Nominal voltage: 12V
- Maximum output current: 15A

VERSATILE 24 V



BC.2410

- Nominal voltage: 24V
- Maximum output current: 10A

Recharging accessories:

- Insulated pliers and ring wires (with fuse).



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BATTERY CHARGER

Fast battery charger 12 Volts 6 Amperes for LV, LCV and motorcycles



- Compatible with all "lead acid" batteries: VLRA, GEL, AGM, Liquid.
- For 12V batteries, from 6Ah to 130 Ah.
- Charging level indicator.
- "Wake-up" mode for batteries discharged to 0.2V.
- Multimode damage-free fast charging controlled by microchip.
- "Floating" mode to maintain batteries charged.
- Protections against short-circuits, reversed polarities, overloads.
- Compatible with "Stop & Start" batteries.
- Maximum output current 6A.
- Power supply: 220 - 240V, 50 - 60 Hz.
- Supplied with alligator clips and connection kit.

| | |
|---|---------------------|
|  | $\Delta\Delta$ [kg] |
| BC126 | 1,3 |

Fast battery charger 12 Volts 15 Amperes for 12V LV, LCV, HGV. "SHOWROOM" mode



- Compatible with all "lead acid" batteries: VLRA, GEL, AGM, Liquid.
- For 12V batteries, from 10 Ah to 230 Ah.
- "SHOWROOM" mode to supply vehicles in showrooms.
- Charging level indicator.
- "Wake-up" mode for batteries discharged to 0.2V.
- Multimode damage-free fast charging controlled by microchip.
- "Floating" mode to maintain batteries charged.
- Protections against short-circuits, reversed polarities, overloads.
- Compatible with "Stop & Start" batteries.
- Maximum output current 15A.
- Power supply: 220 - 240V, 50 - 60 Hz.
- Supplied with alligator clips.

| | |
|---|---------------------|
|  | $\Delta\Delta$ [kg] |
| BC1215 | 1,4 |

Fast battery charger 24 Volts 10 Amperes for HGV and worksite vehicles.



- Compatible with all "lead acid" batteries: VLRA, GEL, AGM, Liquid.
- For 24V batteries, from 20 Ah to 200 Ah.
- Charging level indicator.
- "Wake-up" mode for batteries discharged to 0.2V.
- Multimode damage-free fast charging controlled by microchip.
- "Floating" mode to maintain batteries charged.
- Protections against short-circuits, reversed polarities, overloads.
- Compatible with "Stop & Start" batteries.
- Maximum output current 10A.
- Power supply: 220 - 240V, 50 - 60 Hz.
- Supplied with alligator clips.

| | |
|---|--------------------|
|  | $\Delta\Delta$ [g] |
| BC2410 | |

BOOSTER

12 Volt starting booster

- Starting booster.
- Operating voltage 12V.
- Capacity 20 Ah.
- Sealed internal AGM battery.
- Mac "Peak" current: 3500A.
- Max starting current: 1200A.
- TCFC: 620A.
- Double insulation copper cables 25 mm² 1.55 m long.
- Straight pliers 650A.
- Protection by 300A timed fuse.
- Analog charge control voltmeter.
- Cigar lighter protected by a 16A re-arming fuse.
- Automatic charger 2A.



| FACOM | ΔΔ [kg] |
|--------|---------|
| B12.1B | 11.7 |

Heavy duty 12 Volt starting booster

- Starting booster.
- Operating voltage 12V.
- Safety switch and reversed polarity alarm.
- Capacity 22 Ah.
- Sealed internal AGM battery.
- Mac "Peak" current: 3500A.
- Max starting current: 1300A.
- TCFC: 780A.
- Double insulation copper cables 25 mm² 1.55 m long.
- Straight pliers 650A.
- Protection by 300A timed fuse.
- Analog charge control voltmeter.
- Cigar lighter protected by a 16A re-arming fuse.
- Automatic charger 2A.



| FACOM | ΔΔ [kg] |
|----------|---------|
| B12.SECU | 11.7 |



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BOOSTER

12 Volt - 24 Volt starting booster



- Starting booster.
- Operating voltage 12V - 24V.
- Power safety and reversed polarity alarm.
- Voltage selection by power plug.
- Capacity 2 X 20 Ah.
- Sealed internal AGM battery.
- Mac "Peak" current: 3700A.
- Max starting current: 1400A.
- TCFC: 1000A.
- Double insulation copper cables 35 mm² 1.55 m long.
- Curved clamps 1000A.
- Protection by 300A timed fuse.
- Analog charge control voltmeter.
- Automatic charger 4A.



| | ΔΔ [kg] |
|----------------|---------|
| B124.1A | 22.8 |

Heavy Duty 12 Volt - 24 Volt starting booster



- Starting booster.
- Operating voltage 12V - 24V.
- Power safety and reversed polarity alarm.
- Voltage selection by power plug.
- Auxiliary power plug. (For cables in option).
- Capacity 2 X 50 Ah.
- Sealed internal AGM battery.
- Mac "Peak" current: 7750A.
- Max starting current: 3200A.
- TCFC: 1700A.
- Double insulation copper cables 70 mm² 2.10 m long.
- Curved pliers 850A.
- Protection by 500A timed fuse.
- Analog charge control voltmeter.
- Automatic charger 7A.



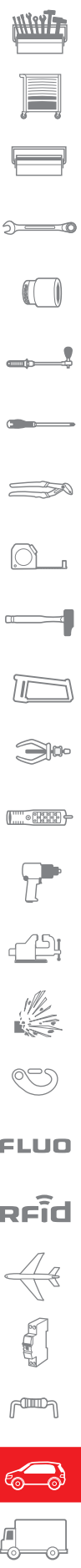
| | ΔΔ [kg] |
|----------------|---------|
| B124.HD | 76.7 |

Starting booster fuse

- Fuse for FACOM starting boosters.
- Packaged in 3 units.



| | ΔΔ [kg] |
|---------------|---------|
| BF300A | 0,4 |
| BF500A | 0,4 |



UCB12A: "NO BATTERY" BOOSTER



BOOSTER

INFINIMAX TECHNOLOGY

No need to recharge or connect it!



12
VOLTS

✓
ANY
VEHICLES

4,7 KG

+50°C
-20°C

1



• Connect the booster to the vehicle's battery.

2



• Wait for 20 seconds.

3



• Start the vehicle.

4



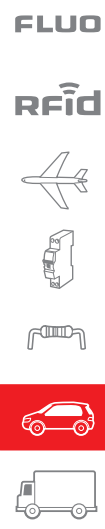
• Disconnect the booster.

Starting booster

- "Infinimax" technology, does not require recharging.
- For 12 V vehicles.
- Operating voltage: 9 V to 14.8 V.
- Max PEAK current: 4500 A certified by a UL Laboratory.
- Operating temperature: -20°C to +50°C.
- Cables: 75 cm Ø 5.6 mm copper.
- Clamps: 900 A bronze. Certified DIN 72553
- Length: 40 cm.
- Height: 20 cm.
- Width: 10.5 cm.
- Certified: CE.
- Guarantee: 5 years



| | ΔΔ [kg] |
|---------------|---------|
| UCB12A | 4,7 |



BOOSTER

■ OBD backup unit



- Backup unit to maintain the power supply voltage when changing a battery.
- Cigar lighter for supply via booster.
- 16-way EOBD compatible with all vehicles from 2000.
- Interface with power supply and good connections indicator.



| | |
|-----------------|--------------------|
| | $\Delta\Delta$ [g] |
| B120BD.M | 70 |

BATTERY TOOLS

■ 12V surge limiter



- Saves electronic power supply circuits even when vehicle battery discharged.
- 2 indicators for checking correct battery connection.
- Current limited to 5 amperes: maintains the same power supply in case of irregular consumption.
- Automatic circuit breaker in case of short-circuit.

| | |
|-----------------|--------------------|
| | $\Delta\Delta$ [g] |
| DX-8-12A | 150 |

■ 24V surge limiter



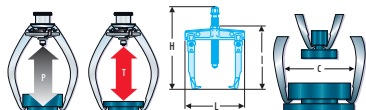
- For 24V vehicles.
- Protects electronic components in the vehicle.
- Cable length: 500 mm.

| | | | | |
|-----------------|--------|--------------|--------|--------------------|
| | H [mm] | Width l [mm] | P [mm] | $\Delta\Delta$ [g] |
| DX-8-24A | 100 | 45 | 20 | 190 |

BATTERY TOOLS

▪ Lug disconnecter

- Spring loaded, self-gripping 2-leg puller.
- Example of use = battery lugs.
- Slim puller arms.



| U | C mini - maxi [mm] | H [mm] | Width l [mm] | L [mm] | P maxi [mm] | Tonnes [t] | Screw Size | Screw Size [mm] | T [kN] | ΔΔ [g] |
|-------|--------------------|--------|--------------|--------|-------------|------------|------------|-----------------|--------|--------|
| U.14A | 10 - 35 | 125 | 75 | 60 | 40 | 0,5 | U.14A04 | Spindle | 5 | 340 |



▪ Reamer

- For cleaning contact surfaces on battery lugs and terminals.

| U | H [mm] | Width l [mm] | L [mm] | ΔΔ [g] |
|-----|--------|--------------|--------|--------|
| 781 | 130 | 92 | 26 | 230 |



▪ Battery filler

- Acid, oil and solvent resistant plastic.
- Length: 260 mm.
- Diameter: 70 mm.

| U | L [mm] | ΔΔ [g] |
|-----|--------|--------|
| 785 | 260 | 85 |



▪ Acid hydrometer

- For checking specific gravity of battery fluid.
- Diameter: 42 --> 350 mm.

| U | ΔΔ [g] |
|------|--------|
| 784B | 100 |



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BATTERY TOOLS

■ Battery tester with printer



- Battery tester 6 – 12 V.
- Charging circuit tester 12 – 24 V.
- Built-in printer.
- Replaceable clamps and cables.
- Compatible with Start and Stop vehicles.
- Compatible with "lead acid" batteries:
 - AGM.
 - EFB.
 - Liquid.
 - GEL.
 - VLRA.
- Cable length: 1.9 m.

|  | H [mm] | Width l [mm] | L [mm] | ΔΔ [g] |
|---|--------|--------------|--------|--------|
| BAT.TEST | 40 | 120 | 220 | 790 |

■ Refractometer 4 measurements



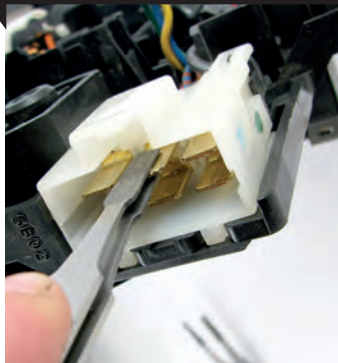
- Four measurement scales:
 - Adblue
 - Coolant
 - Battery acid
 - Washer
- Suited to Euro6 Diesel engines.
- Measures urea concentration of Adblue used.
- Correct, reliable and precise information.

|  | H [mm] | Width l [mm] | L [mm] | ΔΔ [g] |
|---|--------|--------------|--------|--------|
| 780B | 70 | 235 | 700 | 472 |

FUSES AND CONNECTORS

DX.45 - CONTACT CLEANERS

Tweezers - diamond-coated needles



- Super abrasive.
- Restores the contacts promptly, eliminates oxidation.
- Facilitates diagnostics and repairs.
- Avoids useless component replacement.
- Reduces the use of chemicals.
- Effective on male and female flat connectors, and female round connectors.

Set of 3 diamond-tip contact cleaning tweezers

- Outside-inside diamond-coated nose to deoxidize male and female flat connectors.
- Width: 1.8 - 2.9 - 4.8 mm.
- Length: 114 mm.
- Set supplied in a pouch.



| Icon | Weight [g] |
|------------|------------|
| DX.145TCJ3 | 70 |

Diamond-tip contact cleaning tweezers

- Outside-inside diamond-coated nose to deoxidize male and female flat connectors.
- 3 Width: 1.8 - 2.9 - 4.8 mm.
- Length: 114 mm.



| Icon | Weight [g] |
|-----------|------------|
| DX.145TCS | 14 |
| DX.145TCM | 14 |
| DX.145TCL | 14 |



Set of 12 diamond-tip contact cleaning files

- Diamond-coated needle files to deoxidize female round connectors.
- Diameters: 0,75 X2 - 0,98 X2 - 1,29 - 1,48 - 1,76 - 2,03 - 2,26 - 2,52 - 2,78 - 3,02 mm.
- Set supplied in a pouch.



| Icon | Weight [g] |
|----------|------------|
| DX.RDJ12 | 30 |



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FUSES AND CONNECTORS

Auto electricians kit

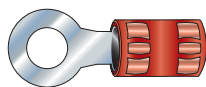


- For routine automotive electrical servicing and repair tasks: installation of accessories, car radios, trailer socket connections, fuse replacement etc.
- Contains:
 - The 12 most commonly used terminals for automotive applications (210 terminals).
 - 20x 5 dia. ring terminals for 0.5 to 1.5 mm².
 - 20x 4 dia. spade terminals for 0.5 to 1.5 mm².
 - 20x 5 dia. ring terminals for 1.5 to 2.5 mm².
 - 15x 6 dia. ring terminals for 1.5 to 2.5 mm².
 - 20x 4 dia. spade terminals for 1.5 to 2.5 mm².
 - 20x 6.3 mm dia. quick disconnects for 1.5 to 2.5 mm².
 - 15x 6.3 mm dia. combined quick disconnects for 1.5 to 2.5 mm².
 - 20x 6.3 mm dia. tab terminals for 1.5 to 2.5 mm².
 - 15x 8 dia. ring terminals for 3 to 6 mm².
 - 15 cable couplers for 0.5 to 1.5 mm².
 - 15 cable couplers for 1.5 to 2.5 mm².
 - 15 cable couplers for 3 to 6 mm².
 - 1 set of 20 fuses with extractor (5A to 30 A).
 - 1 fuse holder (for 5A to 30 A fuses).
 - 5 quick splice terminals for 0.5 to 1.5 mm².
 - 5 quick splice terminals for 1.5 to 3.5 mm².
 - 1 power fuse remover DX.9 (for 40A to 80A fuses) Ref DX.9: for easy replacement or removal of power fuses (e.g. for removing the fuse when working on airbags).
 - 1 pair of multi-purpose pliers 449I: for cutting wire from 0.5 to 6 mm² crimping colour-coded non-insulated terminals, cutting threaded rods from M 2.6 to M5, crimping non-insulated terminals, stripping.
- Supplied in a case.



| | H [mm] | Width l [mm] | L [mm] | ΔΔ [kg] |
|----------------|--------|--------------|--------|---------|
| 449.Z1B | 60 | 300 | 350 | 1.4 |

Maintenance crimping pliers for pre-insulated terminals



CEI60352-2

- Double crimping for pre-insulated terminals in compliance with the standard, with holding on the conductor core and the insulator.
- Unlocking accessible at all times.
- Reversed crimping: terminal positioned on the fixed part for more effectiveness and precision.
- Stainless steel die with 3 cavities:
 - Red cavity: 0.5 --> 1.5 mm².
 - Blue cavity: 1.5 --> 2.5 mm².
 - Yellow cavity: 4 --> 6 mm².
- Shape allowing hand setting.
- Soft touch.



| | L [mm] | ΔΔ [g] |
|---------------|--------|--------|
| 985894 | 230 | 490 |

CAR RADIO

20-piece car radio removal tool set



- 20 special tools for the main makers of car radio (Alpine, Blaupunkt, Becker, Grundig, JVC, Pioneer, VDO).
- Multi-make: BMW, Fiat, Ford, Mercedes, Opel, PSA, Renault, VAG.
- Supplied in a plastic pouch showing applications.



| | ΔΔ [g] |
|--------------|--------|
| DX.25 | 176 |

ENGINE SUPPORT

Engine support

- Holds engines and gearboxes when one or several engine supports is removed.
- Capacity 400 kg.
- The support is fastened under the vehicle.
- Ideal for operations on distribution:



| | H [mm] | Width I [mm] | L [mm] | ΔΔ [kg] |
|--------|--------|--------------|--------|---------|
| DM.UES | 30 | 630 | 1350 | 14.5 |

Engine support (1)

- Holds engines and gearboxes when one or several engine supports is removed.
- Capacity 500 kg.
- Needle bearings to facilitate tensioning.
- Pad spacing from 60 to 160 mm.
- Supplied with a set of chains and shackles.



| | ΔΔ [kg] |
|-------|---------|
| DM.ES | 20 |

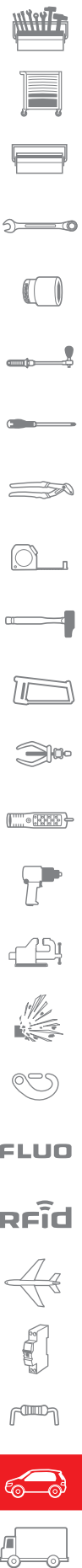
INLET AND TURBO PRESSURE

Manual pressure/vacuum pump

- Manual pressure/vacuum pump.
- To test air actuators such as EGR valves, turbo wastegate valves, boost inlet pressure measurement, pressure sensors, etc.
- Allows to bleed small hydraulic circuits, prime fuel circuits.



| | ΔΔ [kg] |
|--------|---------|
| DA.160 | 2.2 |






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APPLICATIONS GUIDE : DUMMY SPARK PLUGS - DUMMY INJECTORS



|  |  | | | | | | | | | | | | |  | | | | |
|---|---|---------------|---------|-----------------|------------------|----------------------------|----------|----------|---------|------------------|---------|--------|---------|---|------------|------------------|----------|--|
| | PSA | RENAULT DACIA | VAG | FORD | FIAT | OPEL VAUXHALL | BMW MINI | MERCEDES | VOLVO | ROVER | NISSAN | TOYOTA | HONDA | MAZDA | MITSUBISHI | SUZUKI | CHRYSLER | |
| 1,3D | - | - | 911-V4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1,3CDTI/ JTD/ MULTIJET | - | - | - | 911-81 | 911-81 | 911-81 | - | - | - | - | - | - | - | - | - | - | - | |
| 1,4D/TD | - | - | 911-V4 | - | - | - | - | - | - | 911-V10 | - | - | - | - | - | - | - | |
| 1,4TDI/ TDCI/ HDI | 911-82 | - | 911-102 | 911-182 | - | - | - | - | - | - | - | 911-82 | - | - | - | - | - | |
| 1,5D/TD/ DCI | 911-102 | 911-102 | 911-V5 | - | - | 911-107 | - | 911-105 | - | - | 911-102 | - | - | - | - | 911-102 | - | |
| 1,6D/TD | - | - | 911-V5 | - | - | - | 911-82 | - | - | - | - | - | - | - | - | - | - | |
| 1,6TDCI/ HDI/CDI | 911-88 | - | - | 911-88 | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1,7D/TD | - | - | - | - | 911-V5 | 911-V5 / 911-V10 / 911-107 | - | - | - | - | - | - | - | 911-107 | - | - | - | |
| 1,7DTI/ CDTI | - | - | - | - | - | 911-110 | - | - | - | - | - | - | - | - | - | - | - | |
| 1,8D/TD | - | - | 911-V5 | 911-V5 | - | - | 911-105 | - | - | 911-V5 / 911-V10 | - | - | 911-V10 | 911-V5 | - | - | - | |
| 1,9D | 911-V4 | 911-V10 | - | - | 911-V5 | - | - | - | - | - | - | - | - | - | - | 911-V5 | - | |
| 1,9D 64 | - | - | 911-V5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1,9TD | 911-V10 | 911-V10 | - | - | 911-V5 / 911-V10 | - | - | - | 911-V5 | - | - | - | - | - | 911-V10 | - | - | |
| 1,9TDI 75/SDI | - | - | 911-V5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1,9TDI/ DTI | - | 911-B2 | 911-102 | 911-102 | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1,9DCI/ TDCI/ CDTI/ JTD | - | 911-B5 | - | 911-102 | 911-B3 | 911-B3 | - | - | - | - | - | - | - | - | - | - | - | |
| 2,0D/TD | - | - | - | 911-106 | 911-V5 | - | - | - | - | - | 911-V5 | - | - | 911-V10 | - | - | - | |
| 2,0TDI 105/ DCI/DTI/ TDCI | - | 911-106 | 911-102 | 911-88 | - | 911-105 | - | - | - | - | - | - | - | - | - | - | - | |
| 2,0HDI | 911-104 / 911-85 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 911-104 / 911-85 | - | |
| 2,0HDI 136/138/ JTD/CDI | 911-88 | - | - | - | 911-104 | - | - | 911-105 | - | - | - | - | - | - | - | - | - | |
| 2,1TD | 911-V10 | - | - | - | 911-V10 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 2,2DT | - | 911-V10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 2,2HDI/ CDI/DTI/ TDCI/ DCI | 911-104 / 911-88 | 911-105 | - | 911-106 | - | 911-105 | - | 911-105 | - | - | - | - | - | - | - | - | - | |
| 2,3D/TD | - | - | - | - | - | 911-V5 / 911-V10 | - | - | - | - | - | - | - | - | - | - | - | |
| 2,4D/TD | - | - | 911-V5 | - | 911-V5 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 2,4JTD/ D5 | - | - | - | - | 911-91 | - | - | - | 911-82 | - | - | - | - | - | - | - | - | |
| 2,5D | - | - | - | 911-B5 / 911-B1 | - | - | - | - | 911-102 | - | - | - | - | - | - | - | - | |
| 2,5TD/ TDI | - | - | 911-104 | 911-V10 | - | - | - | - | - | 911-102 | - | - | - | - | - | - | 911-102 | |
| 2,7TD/ HDI/CDI | 911-88 | - | - | - | - | - | - | 911-105 | - | - | 911-107 | - | - | - | - | - | - | |
| 3,0D/ CDTI | - | - | - | - | - | 911-110 | 911-102 | - | - | - | - | - | - | - | - | - | - | |
| 3,5D | - | - | - | - | - | - | 911-102 | - | - | - | - | - | - | - | - | - | - | |

HIGH-PRESSURE DUMMY GLOW PLUGS

■ Diesel dummy glow plugs 8 mm

- For testing diesel engine compression.
- For use with FACOM 911 reader.
- Fitted with a non-return valve.

| Part Number | $\Delta\Delta$ [g] |
|-------------|--------------------|
| 911-81 | 38 |
| 911-82 | 38 |



■ Diesel dummy glow plugs 9 mm

- For testing diesel engine compression.
- For use with FACOM 911 reader.
- Fitted with a non-return valve.

| Part Number | $\Delta\Delta$ [g] |
|-------------|--------------------|
| 911-91 | 45 |



■ Diesel dummy glow plugs 10 mm

- For testing diesel engine compression.
- For use with FACOM 911 reader.
- Fitted with a non-return valve.

| Part Number | $\Delta\Delta$ [g] |
|-------------|--------------------|
| 911-102 | 58 |
| 911-104 | 40 |
| 911-105 | 85 |
| 911-106 | 57 |



HIGH-PRESSURE DUMMY INJECTORS

■ Dummy injectors

- For testing diesel engine compression.
- For use with FACOM 911 reader.
- Fitted with a non-return valve.

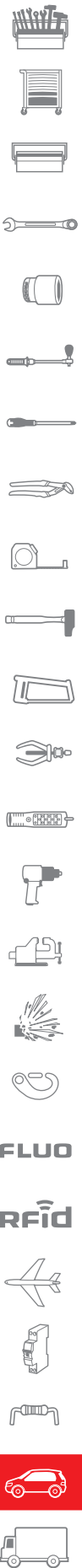
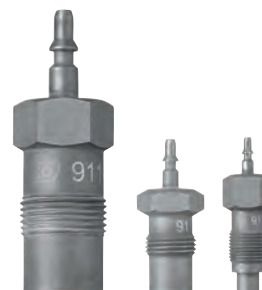
| Part Number | $\Delta\Delta$ [g] |
|-------------|--------------------|
| 911-B2 | 184 |
| 911-B5 | 151 |
| 911-B8 | 327 |



■ Screw-on dummy injectors

- For testing diesel engine compression.
- For use with FACOM 911 reader.
- Fitted with a non-return valve.

| Part Number | $\Delta\Delta$ [g] |
|-------------|--------------------|
| 911-V4 | 140 |
| 911-V5 | 164 |
| 911-V10 | 233 |



PRESSURE CONTROL

911 AND 912: COMPRESSION GAUGES



Compression testing is a pre-requisite for good engine diagnosis. With incorrect compressions, the engine cannot run normally. Electronic engine control and its self-diagnosis system will behave erratically if engine compressions are bad. More than ever, compression testing is the pre-requisite for good engine diagnosis.

Test sheet:

- Compression readings are printed on a ticket allowing simple and immediate comparison of all engine cylinders. This ticket is also used for diagnostics or return under guarantee.

Range of adaptors:

- FACOM offer a range of dummy spark plugs and dummy injectors for precise coverage of most vehicles. All these adaptors are fitted with check valves close to the engine combustion chamber and guarantee accurate measurements.



■ Diesel engine compression tester



- Test cards up to 12 cylinders.
- Integral starter-motor control.
- Suitable for all types of diesel engine: using dummy injectors and dummy heater plugs.
- Working range 5 to 60 bars.
- Including:
 - 912-01-02: Hose for 911 and 912.
 - 911TN: Bare diesel compression tester.
 - 911-82 - 911-102 - 911-104 - 911-105 - 911-B2 - 911-B5 - 911-B8 - 911-V4 - 911-V5 - 911-V10: Diesel dummy glow plug.
 - 911.C90: Angle adaptor.
 - 911B.FC: Pack of 100 test cards.
 - 911B.016: Starter-motor control lead.



| | H [mm] | Width l [mm] | L [mm] | ΔΔ [kg] |
|------------|--------|--------------|--------|---------|
| 911 | 85 | 340 | 430 | 2.0 |

■ Set of 100 test cards for diesel engine



- Accessory for diesel engine compression tester.



| | ΔΔ [g] |
|----------------|--------|
| 911B.FC | 104 |

■ **Petrol engine compression tester**

- Test cards up to 12 cylinders.
- Integral starter-motor control.
- Working range 3 to 18 bars.
- Including:
 - 912-01-02: Hose for 911 and 912.
 - 912TN: Bare compression tester.
 - 912-12: Dummy petrol spark plugs 12 mm.
 - 912-14: Dummy petrol spark plugs 14 mm.
 - 912A.FC: Set of 100 test cards.
 - 911B.016: Starter-motor control lead.



| 912 | H [mm] | Width l [mm] | L [mm] | ΔΔ [kg] |
|-----|--------|--------------|--------|---------|
| 912 | 85 | 340 | 430 | 2.0 |

■ **Flexible dummy spark plug 14 mm**

- Accessory for petrol engine compression tester.
- Flexible dummy spark plug 14 mm (spark plug size 16 mm).



| 912-14 | ΔΔ [g] |
|--------|--------|
| 912-14 | 141 |

■ **Flexible dummy spark plug 12 mm**

- Accessory for petrol engine compression tester.
- Flexible dummy spark plug 12 mm (spark plug size 14 mm).



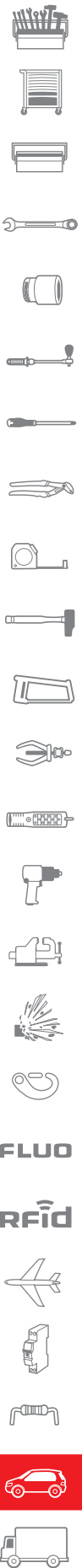
| 912-12 | ΔΔ [g] |
|--------|--------|
| 912-12 | 135 |

■ **Flexible dummy spark plug 18 mm**

- Accessory for petrol engine compression tester.
- Flexible dummy spark plug 18 mm (spark plug size 18 and 21 mm).



| 912-18 | ΔΔ [g] |
|--------|--------|
| 912-18 | 163 |



PRESSURE CONTROL

Angle adaptor



- Accessory for diesel engine compression tester.



| | |
|---|--------------------|
|  | $\Delta\Delta$ [g] |
| 911-C90 | 72 |

Flexible fitting



- Accessory for petrol and diesel engine compression tester.
- Converts all older generations of 911 and 912 to make them compatible with the current "dummy spark plugs" and "dummy injectors" program.



| | |
|---|--------------------|
|  | $\Delta\Delta$ [g] |
| 912-01-02 | 50 |

Non-return valves



- Accessory for petrol and diesel engine compression tester.
- Compatible with all petrol and diesel dummy spark plugs and all dummy injectors.

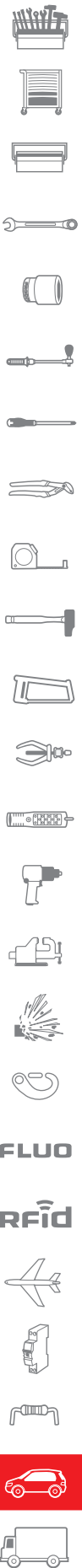


| | |
|---|--------------------|
|  | $\Delta\Delta$ [g] |
| 911-VA | 10 |

COMMON RAIL INJECTOR TOOLS

COMMON RAIL

- Most modern diesel engines use the common rail technology. To meet issues related with injectors, FACOM offer a comprehensive range for testing and extraction.
- Pressure constraints require perfect renovation of mating surfaces before refitting a new element, and changing gaskets at every removal.
- FACOM offer a range of tools to renovate mating surfaces and pull gaskets blocked at the bottom of injector wells.



■ DENSO injectors puller set

- For "Common Rail" diesel engines.
- For: Opel, Vauxhall, Renault, Nissan, Mazda, Toyota, Lexus.
- Supplied in plastic case with foam module.
- Instructions.



| | Width l [mm] | L [mm] | P [mm] | ΔΔ [kg] |
|------------------|--------------|--------|--------|---------|
| DCR.IP-DA | 300 | 390 | 105 | 4.7 |

■ Common rail diesel injector return flow tester

- For 2 to 8 cylinder engines.
- 4 sets of 8 brass couplings for BOSCH and Siemens injectors.
- 1 set of 8 plastic couplings for DELPHI injectors.
- Supplied with universal connecting tubes.



| | ΔΔ [kg] |
|---------------|---------|
| DCR.IT | 3.2 |

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COMMON RAIL INJECTOR TOOLS

Seized common rail injector slide hammer



- For more than 80% seized injectors.
- 4 Sockets for injector heads 25 - 27 - 29 - 30 mm.
- Tool for removing the inside mechanism for BOSCH injectors.
- Dual height slide hammer.
- Supplied with adaptors for BOSCH, SIEMENS, DELPHI injectors.

| | |
|---|---------------------|
|  | $\Delta\Delta$ [kg] |
| DCR.IP | 3.2 |

Seized common rail injector screw puller on PSA engines



- PSA 2.0L HDI 16V and 2.2L HDI 16V engines.
- Designed for use on "minivan" and utility vehicles when access does not allow to use the puller DCR.IP.

| | |
|---|---------------------|
|  | $\Delta\Delta$ [kg] |
| DCR.IPPSA | 15.4 |

Seized common rail injector screw puller on RENAULT engines



- RENAULT 2.2L DCI and 2.5L DCI engines.
- Designed for use on "minivan" and utility vehicles when access does not allow to use the puller DCR.IP.

| | |
|---|---------------------|
|  | $\Delta\Delta$ [kg] |
| DCR.IPREN | 15.8 |

PSA and RENAULT common rail injectors puller set



- Comprises the elements and covers vehicles of the DCR. IP-PSA and DCR.IP-REN pullers.

| | |
|---|---------------------|
|  | $\Delta\Delta$ [kg] |
| DCR.IPM | 19.1 |

Injector gaskets slide hammer

- To pull injector gaskets blocked at the bottom of the injector well.
- Avoids cylinder head removal.



| Image | Weight [kg] |
|--------|---------------------|
| | $\Delta\Delta$ [kg] |
| DCR.SR | 1.630 |

Multiple-make electrode puller set

- For glow plugs.
- Indispensable for Renault, Peugeot, Citroën, Fiat, Volkswagen vehicles.
- For plugs size 8, 9 and 10 mm.
- Supplied in plastic case with foam module.
- Instructions.



| Image | H [mm] | L [mm] | P [mm] | Weight [g] |
|-----------|--------|--------|--------|--------------------|
| | | | | $\Delta\Delta$ [g] |
| DCR.HR-EU | 75 | 320 | 265 | 980 |

Injector well cleaning set

- For all COMMON RAIL diesel engines.
- To clean injector wells and parting surfaces.
- To be used with a bolter or drill.
- 2 x cylindrical brushes, 20 mm and 25 mm, for cleaning the wells.
- 2 x brushes (Nylon and brass) for parting surfaces.
- Patch to surface parting surfaces.
- Protection caps to avoid contaminating engine cylinders.
- Adapters and extensions.



| Image | Weight [g] |
|---------|--------------------|
| | $\Delta\Delta$ [g] |
| DCR.ICA | 500 |



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COMMON RAIL GLOW PLUG TOOLS

TO PREVENT GLOW PLUGS FROM SEIZING



Glow plug well cleaning grinder.

- Built-up scale between the glow element and the cylinder head results in breaking glow plugs when removing them.
- Using a glow plug well cleaning grinder reduces the risk of breakage. On "sensitive" engines, glow plugs should be changed every 80 000 KM and the glow plug wells be cleaned.

■ Cylinder head tool for 10 x 100 and 10 x 125 glow plugs



- Removes scale deposits between the cylinder head and the spark plug heating element.
- Prevents seizing and breakage of glow plugs in the cylinder heads.



| | |
|-----------------|--------------------|
| | $\Delta\Delta$ [g] |
| DCR.HC10 | 219 |

FUEL INJECTION

■ 1/2" square drive diesel injectors sockets



- 1/2" square drive 12-point long reach sockets.
- D.27A.
- D.132B.
- Available for:
 - MAZDA Familia 1.7.
 - MERCEDES 250C > 94.
 - MITSUBISHI Pajero 2.
 - NISSAN Serena 2.3.
 - PEUGEOT 106/605/2.5.
 - SEAT Terra 1.7.
 - VOLKSWAGEN Polo D.
- CITROËN Saxo 1.5/Boxer TD.
- FORD Maverick.



| | d [mm] | Width l [mm] | L [mm] | $\Delta\Delta$ [g] |
|---------------|--------|--------------|--------|--------------------|
| D.27A | 36 | 87 | 87 | 265 |
| D.132B | 29 | 98 | 98 | 160 |

■ Injector test pump



- For checking injector leak-back, injection pressure and fuel spray pattern.
- Dial gauge: 0-600 bar.
- Reservoir complete with filter.
- For use with fluid to NF ISO 4113 and vapour extractor Ref D.144.



| | H [mm] | Width l [mm] | L [mm] | $\Delta\Delta$ [kg] |
|----------------|--------|--------------|--------|---------------------|
| 916.600 | 410 | 100 | 220 | 4.4 |

FUEL INJECTION

Vapour extractor

- Collects fumes and fluid checking or adjusting injectors.
- Air inlet hose fitted with shut-off valve.
- Inlet pressure: 6 bar.



| | H [mm] | Width l [mm] | L [mm] | ΔΔ [kg] |
|--------------|--------|--------------|--------|---------|
| D.144 | 420 | 380 | 400 | 5,2 |

Fuel gauge wrench

- Used to dismount and refit fuel gauges bushes.
- Capacity: 88 --> 170 mm.
- Opening regulation through diaphragm.



| | ΔΔ [kg] |
|--------------|---------|
| DM.JL | 0,200 |



Automatic clamp pliers

- Pliers to open or close automatic clamps.
- Multi-direction gripping of clamps to work either vertically or horizontally (right or left).



| | ΔΔ [g] |
|--------------|--------|
| DM.CC | 200 |



Diesel filter fitting and removal tool

- For multi-jet 1.3 and 1.9 diesel engines in Fiat and Opel.
- Filter holder support for lock grip.
- Filter holder wrench with 3/8" square bit.
- Allows retightening at the original torque value (value indicated on the plastic cap).



| | ΔΔ [g] |
|---------------|--------|
| DM.FR2 | 894 |



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FUEL CIRCUIT TOOLS

Fast fit fuel pliers



- For petrol and diesel vehicles.
- To disconnect fast fuel fittings.
- Length: 175 mm.



| | |
|-------------|--------------------|
| | $\Delta\Delta$ [g] |
| DM.F | 171 |

DM.MUB - SPRING CLAMP PLIERS



For an easier reach

Time-saving

- No need to remove components obstructing the hose clamp.
- Compact and lightweight for confined spaces.

Comfortable

- Non-slip grips.
- Ratchet lock system for reduced effort.

Capacity 18 to 54 mm.

Pliers for removing and fitting self-tightening spring clips

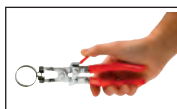


- Fits self-tightening spring clips diameter: 18 --> 51 mm.
- Can be used one-handed.
- Non-slip bi-material handle for a better grip.
- Rack system for reduced effort.
- Sheath length: 560 mm.
- Total length: 780 mm.



| | |
|-----------------|--------------------|
| | $\Delta\Delta$ [g] |
| DM.MUB-A | 456 |

Self-tightening clamp pliers



- For hose clamps on cooling, heating, fuel or screen-washer.
- DM.25: slip-joint model.
- DM0.27: long-reach model with lock and pivoting jaws.
- DM0.29: standard-reach model with lock and pivoting jaws.



| | d [mm] | Width l [mm] | L [mm] | P [mm] | Dimension [mm] | $\Delta\Delta$ [g] |
|--------------|--------|--------------|--------|--------|----------------|--------------------|
| DM.25 | 12..60 | 55 | 275 | 20 | 275 x 55 x 20 | 400 |
| DM.27 | 15..56 | 60 | 275 | 25 | 275 x 60 x 25 | 395 |
| DM.29 | 15..56 | 60 | 215 | 25 | 215 x 60 x 25 | 340 |

Flexible nut drivers (6 point)



- For loosening and tightening hose clamps.



| | d [mm] | $\Delta\Delta$ [g] |
|-----------------|--------|--------------------|
| D.133B6 | 6 | 185 |
| D.133B7 | 7 | 187 |
| D.133B8 | 8 | 188 |
| D.133B10 | 10 | 189 |

SEALS

217 - Set of Master bearing race and seal driver

- Smart multi diameter tool: Place seals, bearing race without any damages. Adjustable jaws.
- All in one design, eliminating the need for a driver and several different heads.
- 2 SKUs:
 - Jaws from 9,5 to 50 mm.
 - Jaws from 18 to 90 mm.
- 3-stepped jaws quickly adjust to accommodate bearing races and seals.
- Can be used on most vehicles, including motorcycles.



| Part Number | Weight [kg] |
|-------------|-------------|
| 217.J2 | 1,1 |

Gasket centrer, 50 mm cages

- Multiple diameter tool to place and centre sealing gaskets, bearings... Adjustable jaws.
- Inserts gaskets without damaging them.
- Jaws from 9.5 to 50 mm.
- 3 stages per jaw to adapt to all types of gaskets and bearing cages.
- Adapted to most vehicles, including motorcycles.



| Part Number | Weight [g] |
|-------------|------------|
| 217.50 | 280 |

Gasket centrer, 90 mm cages

- Multiple diameter tools to place and centre sealing gaskets, bearings... Adjustable jaws.
- Inserts gaskets without damaging them.
- Jaws from 18 to 90 mm.
- 3 stages per jaw to adapt to all types of gaskets and bearing cages.
- Adapted to most vehicles, including motorcycles.



| Part Number | Weight [g] |
|-------------|------------|
| 217.90 | 834 |

COOLING SYSTEM TESTER

Vacuum cooling circuit fillers

- For total filling of cooling circuits also without bleed screw.
- Supplied in a plastic case (complete with 5 can adaptors).



| Part Number | Weight [kg] |
|-------------|-------------|
| 935A | 1,960 |

Anti-freeze hydrometer

- Measures antifreeze levels in engine coolant.
- Two scales for cold or warm engines.



| Part Number | Width l [mm] | L [mm] | Weight [g] |
|-------------|--------------|--------|------------|
| 778A | 42 | 350 | 90 |



COOLING SYSTEM TESTER

■ Cooling circuit tester with 14 adapters



- Manual pump 0 to 2.5 bar.
- Set of 14 plugs.
- For vehicles by: RENAULT, PEUGEOT, CITROEN, FIAT, ALFA, LANCIA, MINI, VOLVO, NISSAN, TOYOTA, MITSUBISHI, SUZUKI, OPEL, SAAB, FORD, MAZDA, MERCEDES, VOLKSWAGEN, SEAT, SKODA, AUDI, PORSCHE, BMW, CHEVROLET EUROPE, SMART.
- Plastic storage case.
- Supplied with instructions.



| ➤ | ΔΔ [kg] |
|-------------|---------|
| 920B | 2.1 |

AFKNIJPTANGEN

■ Screw-type hose clamps



- Metal structure.
- Applications:
 - Cooling circuit.
 - Fuel circuit.
 - Air circuit.



| ➤ | d [mm] | Width l [mm] | L [mm] | ΔΔ [g] |
|--------------|--------|--------------|--------|--------|
| DM.90 | 27 | 65 | 65 | 190 |
| DM.91 | 45 | 85 | 85 | 240 |

■ Hose clamps



- Hoses are clamped shut instantly without damage.
- Plastic structure.



| ➤ | d [mm] | Width l [mm] | L [mm] | ΔΔ [g] |
|----------------|---------|--------------|--------|--------|
| DM.33 | 8...15 | 160 | 160 | 170 |
| DM.34 | 15...28 | 180 | 180 | 190 |
| DM.34GM | 25...55 | 205 | 205 | 210 |

CYLINDER HEAD - VALVES

■ Valve lifter



- For removing valve springs.
- Complete with jaws ref U.13B.



| ➤ | H [mm] | Width l [mm] | L [mm] | ΔΔ [kg] |
|--------------|--------|--------------|--------|---------|
| U.13L | 20 | 365 | 265 | 1,1 |

Collet clamp and cup

- To fit U.13L, the collet replacing the screw, with the cup inserted between the 2 jaws.
- U.13DB: For 16-valve engines.



| Part No. | d [mm] | ΔΔ [g] |
|----------|--------|--------|
| U.13DB | 30 | 335 |
| U.13DC | 33 | 340 |

Slide-hammer valve lifter

- For removing valve springs.
- The slide hammer is used to free split collets.
- Diameter: 34 mm.



| Part No. | H [mm] | Width I [mm] | L [mm] | ΔΔ [kg] |
|----------|--------|--------------|--------|---------|
| U.43LA | 36 | 390 | 200 | 1.4 |

Collet clamp

- For 16-valve engines.
- Fits U.43LA.
- Diameter: 29 mm.



| Part No. | L [mm] | ΔΔ [g] |
|-----------|--------|--------|
| U.43LA16A | 54 | 55 |

Cylinder-head rest

- Adjustable distance between feet.
- Designed for easy use of valve lifters U.13L - U.43LA.



| Part No. | H [mm] | Width I [mm] | L [mm] | ΔΔ [kg] |
|----------|--------|--------------|--------|---------|
| U.43 | 165 | 500 | 215 | 1.8 |



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CYLINDER HEAD - VALVES

Special pliers

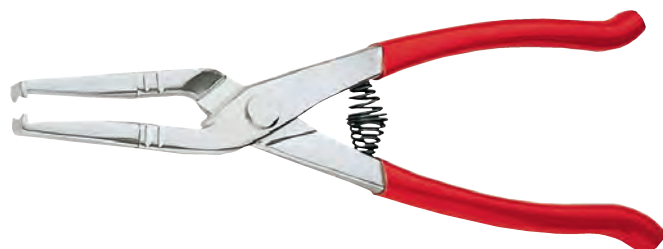


- For removing valve guide seals.
- Length: 245 mm.
- Finish: Nickel, burnished jaws.



| | L [mm] | ΔΔ [g] |
|-------------|--------|--------|
| DM.7 | 245 | 350 |

Valve stem seal pliers

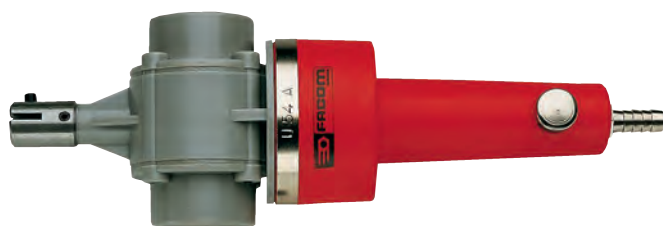


- For removing valve guide seals.



| | H [mm] | Width I [mm] | L [mm] | ΔΔ [g] |
|---------------|--------|--------------|--------|--------|
| DM.10A | 15 | 80 | 235 | 135 |

Air-operated valve grinder



- Working pressure: 8 bar.
- Air consumption: 0.08 m³/min.
- Supplied with 2 suction cups (diam.: 22 and 33 mm).
- Suction cup 22 mm: U.54AV1.
- Suction cup 33 mm: U.54AV2.
- Suction cup 30 mm: U.54AV3.
- Suction cup 45 mm: U.54AV4.



| | H [mm] | Width I [mm] | L [mm] | ΔΔ [g] |
|--------------|--------|--------------|--------|--------|
| U.54A | 70 | 90 | 280 | 800 |

Valve grinder



- Suction pads: 19 - 22 mm.



| | Width I [mm] | L [mm] | ΔΔ [g] |
|-------------|--------------|--------|--------|
| D.51 | 22 | 235 | 30 |

Scraper



- For deburring and scraping off gasket debris.
- Triple-edge blade.



| | H [mm] | Width I [mm] | L [mm] | ΔΔ [g] |
|------------|--------|--------------|--------|--------|
| D.1 | 20 | 25 | 200 | 105 |

7-piece set of 6-spline bits 1/2"

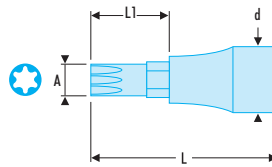
- Comprising: D.34B7 - D.34B7L - D.34B9L - D.34B10 - D.34B12L - D.34B14L - D.34B16L.
- Supplied on a rack.



| Part No. | Weight [g] |
|----------|------------|
| D.34J7 | 900 |

D.34B - Long-reach 6-spline bits

| Part No. | A [mm] | d [mm] | Width l [mm] | L [mm] | L1 [mm] | Weight [g] |
|----------|--------|--------|--------------|--------|---------|------------|
| D.34B7 | 7 | 7 | 60 | 60 | 15 | 70 |
| D.34B7L | 7 | 7 | 100 | 100 | 63 | 120 |
| D.34B9L | 9 | 9 | 100 | 100 | 63 | 130 |
| D.34B10 | 10 | 10 | 60 | 60 | 15 | 75 |
| D.34B12L | 12 | 12 | 100 | 100 | 63 | 140 |
| D.34B14L | 14 | 14 | 100 | 100 | 63 | 150 |
| D.34B16L | 16 | 16 | 100 | 100 | 63 | 160 |



Set of Torx® socket wrenches and bits

- J.235: Bit holder.
- R0.235: 1 bit holder socket 1/4".
- S.236: 1/2" bit holder socket.
- EX.2 40 - 45 - 50 - 55: 5/16 bits.
- EXR. 10 - 15 - 20 - 25 - 30 - 40: 1/4 bits.
- JTX. 8 - 10 - 12 - 14 - 16: 3/8" sockets.
- STX 18 - 20: 1/2" sockets.
- 59TX 6 x 8 - 10 x 12 - 14 x 18 - 20 x 24: Ring wrenches.



| Part No. | H [mm] | Width l [mm] | L [mm] | Contents | Weight [kg] |
|----------|--------|--------------|--------|----------|-------------|
| MOD.TX1A | 40 | 175 | 418 | PL.360 | 0.995 |



CYLINDER HEAD - VALVES

5-piece set of drive bits for spline socket head (XZN) bits 1/2"



- Comprising the bits: SV.14LB - SV.12LB - SV.10LB - SV.8LB - SV.6LB.
- Bit length: 64 mm.
- Supplied on a rack.



| | |
|--------------|--------------------|
| | $\Delta\Delta$ [g] |
| SV.J5 | 670 |

20-piece set of short-reach bits



- Tray PL.393A.
- Plastic case BP.102.
- Dimensions (L. x W. x H.): 204 x 122 x 52 mm.

| | |
|--------------|--------------------|
| | $\Delta\Delta$ [g] |
| SE.1A | 475 |

Storage holder for cylinder head



- For engines up to 4 cylinders.
- 8 or 16 valves.
- Single or dual camshaft.
- Holder for valves, springs, key, camshaft.

| | | | | |
|-----------------|--------|--------------|--------|---------------------|
| | H [mm] | Width l [mm] | L [mm] | $\Delta\Delta$ [kg] |
| U.43-ORG | 22 | 40.5 | 45 | 2.3 |

TORQUE TIGHTENING : WRENCHES AND DRIVES

E.306 and E.316 series

- 9 torque and/or angle values can be preset.
- 250 results can be saved, downloaded via USB.

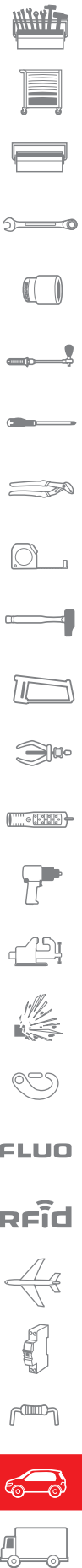
Series E.506

- 9 torque and/or angle values can be preset.
- 50-result memory.



Series E.406

- 9 preset angle values.
- 50-result memory.



DIGITAL CONTROL TOOLS

■ E.506 - Torque and angled adapter



NF EN ISO 6789, ISO 6789, DIN EN ISO 6789

- Drive bit 1/2".
- Accuracy:
 - Torque: $\pm 3\%$ between 20% and 100% wrench capacity.
 - Angle: $\pm 2^\circ$.
- Measuring mode: peak or track follower.
- Cycle counter.
- Locking keypad (the operator has access only to program choices and memorise results).
- Measuring unit: N.m, ft.lb, In.lb, kg.cm, deg.
- Presetting possible of 9 torque and/or angle values.
- Memory 50 values.
- Length: 80 mm.
- Supplied in plastic case with calibration certificate.



| | L [mm] | Capacity [N.m] | Résolution | $\Delta\Delta$ [g] |
|-------------------|--------|----------------|------------|--------------------|
| E.506-135S | 80 | 6,7 - 135,0 | 0,1 | 268 |
| E.506-200S | 80 | 10 - 200 | 0,1 | 268 |
| E.506-340S | 80 | 17 - 340 | 0,1 | 268 |

■ Angular adapter



- Accuracy: $\pm 2^\circ$.
- Angular range: 1 - 360°.
- Measuring unit: degree.
- Presetting possible of 9 angle values.
- Memory 50 values.
- Supplied in plastic case with calibration certificate.



| | $\Delta\Delta$ [g] |
|--------------|--------------------|
| E.406 | |

ANALOG CONTROL TOOLS

■ Angular torque gauge 1/2" drive

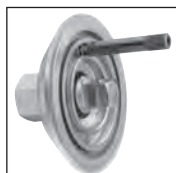


- Including:
 - 3 bits (length: 24 - 45 - 65 mm).
 - 1 flexible.
 - 1 pair of pliers.
 - 1 magnet.



| | H [mm] | Width l [mm] | L [mm] | $\Delta\Delta$ [g] |
|-----------------|--------|--------------|--------|--------------------|
| DMP.360L | 145 | 180 | 375 | 550 |

■ Side-graduated angular torque gauge 1/2" drive bit



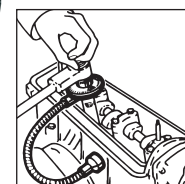
- Lateral reading tapered drum for maximum legibility.
- Double index (red line) for presetting. To tighten, simply align the two markers. Ideal with low lighting.
- 2° resolution.
- Supplied with a limit stop (length: 24 - 45 - 65 mm).



| | $\Delta\Delta$ [g] |
|---------------|--------------------|
| D.360L | 414 |

DM - Angular torque gauge

- 2° graduations.
- Male and female square drive.
- Fixed point by flexible with magnet.



| DM | d [mm] | L [mm] | Square ["] | ΔΔ [g] |
|--------|--------|--------|------------|--------|
| DM.360 | 63 | 410 | 1/2 | 350 |
| DM.370 | 73 | 430 | 3/4 | 550 |

PISTONS - PISTON RINGS

Piston ring compressors

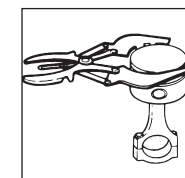
- For easy insertion of piston into cylinder bore and even compression over full ring length.
- Ratchet mechanism.
- Complete with key (length: 6 mm).



| Model | d [mm] | L [mm] | ΔΔ [g] |
|--------|-----------|--------|--------|
| 750.TB | 55...110 | 80 | 260 |
| 750.KB | 100...160 | 80 | 300 |

Piston ring pliers

- Even expansion over full ring length.
- Quick and easy to use.



| Model | d [mm] | Width l [mm] | L [mm] | ΔΔ [g] |
|-------|----------|--------------|--------|--------|
| 751.T | 45...100 | 210 | 210210 | 280 |
| 751.K | 90...150 | 255 | 255 | 330 |

LAMBDA PROBE

Lambda probe wrench and sockets

- For use on lambda probes.
- Featuring a slot for the connecting lead.
- Square drive bit 1/2".
- N.B. Lambda probes must be torqued to manufacturers specified values.



| Model | d [mm] | ΔΔ [g] |
|--------|---------|--------|
| D.145A | 33 x 85 | 200 |
| D.146A | 33 x 85 | 230 |



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MAINTENANCE

PSA exhaust collar pliers



- Bi-material grip, for opening exhaust collars.



| | Open Position maxi [mm] | ΔΔ [g] |
|------|-------------------------|--------|
| DE.C | 60 | 442 |

Ratchet tube cutter



- Precise cutting line with the ratchet system.
- Load reduction thanks to the screw blade movement.
- No risk of sparks or damage to the lower part of the vehicle.
- Ø 31 to 65 mm - Tube thickness up to 3 mm.



| | ΔΔ [kg] |
|------|---------|
| DE.8 | 1,084 |

OTHER

Set of threading repair inserts



- M5, M6, M8, M10, M12 stainless steel inserts.
- Special taps to repair M5, M6, M8, M10, M12 threads.
- Special drill bits to repair M5, M6, M8, M10, M12 threads.
- Mixed tools (mounting inserts and tap wrench) for M5, M6, M8, M10, M12 inserts.
- Magnetic "bit breaker" tools for M5, M6, M8, M10, M12 threads.



| | H [mm] | Width l [mm] | L [mm] | ΔΔ [kg] |
|---------|--------|--------------|--------|---------|
| TRK5-12 | 40 | 310 | 330 | 1,2 |

Right angle hook



- Multi-function hook to catch gaskets in grooves, pull small springs.



| | ΔΔ [g] |
|-------|--------|
| AR.90 | 23 |

Curved angle hook



- Multi-function hook to catch gaskets in grooves, pull small springs.



| | ΔΔ [g] |
|------|--------|
| AR.C | 23 |

OTHER

Strait tip

- Multi-function hook to catch gaskets in grooves.



| | |
|------|--------------------|
| | $\Delta\Delta$ [g] |
| AR.D | 22 |

Set of 4 hooks

- Multi-function hook to catch gaskets in grooves, pull small springs.



| | |
|--------|--------------------|
| | $\Delta\Delta$ [g] |
| AR.CJ4 | 108 |

Open angle hook

- Multi-function hook to catch gaskets in grooves, pull small springs.



| | |
|-------|--------------------|
| | $\Delta\Delta$ [g] |
| AR.CR | 23 |

Curved spatula

- Multi-function spatula allowing to recover gaskets from grooves, separate small parts.
- Rounded shape ensuring parts are neither marked or damaged.



| | |
|---------|--------------------|
| | $\Delta\Delta$ [g] |
| AR.PSPC | 20 |



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OTHER

Set of 4 spatulas



- Multi-function spatulas allowing to recover gaskets from grooves, separate small parts.
- Rounded shape ensuring parts are neither marked or damaged.

| | |
|---|--------------------|
|  | $\Delta\Delta$ [g] |
| AR.SPJ4 | 105 |

Straight spatula



- Multi-function spatula allowing to recover gaskets from grooves, separate small parts.
- Rounded shape ensuring parts are neither marked or damaged.

| | |
|---|--------------------|
|  | $\Delta\Delta$ [g] |
| AR.PSPD | 19 |

Straight and long spatula



| | |
|---|--------------------|
|  | $\Delta\Delta$ [g] |
| AR.GSPD | 24 |

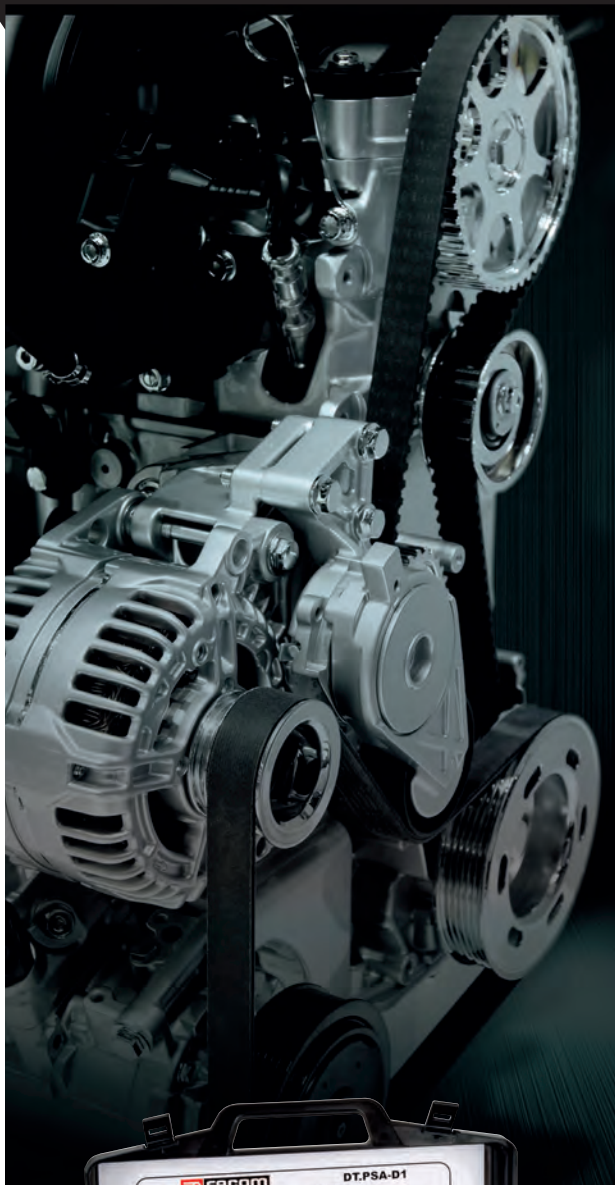
Long curved spatula



- Multi-function spatula allowing to recover gaskets from grooves, separate small parts.
- Rounded shape ensuring parts are neither marked or damaged.

| | |
|---|--------------------|
|  | $\Delta\Delta$ [g] |
| AR.GSPC | 24 |

DT SERIES : TIMING ADJUSTMENT



Accuracy and speed

For safe accurate timing adjustment.

The ignition timing of modern multi-valve petrol and high pressure diesel engines requires accurate adjustment.

Inaccurate adjustment can lead to :

- Over-consumption, engine breakage, malfunction, pollution, etc.

On many modern twin-cam engines, at least one of the two pulleys will turn when the timing belt is removed :

- The method of aligning timing marks is no longer appropriate.

Poor timing adjustment will at the very least cause engine malfunction, requiring the work to be restarted :

- The use of timing tools really does save time.

For all of these reasons, it is essential to immobilise the engine when readjusting timing or changing the timing belt.

The right equipment ensures profitability

With a separate kit for each make or range of engines, you only buy the tools that you need.

The kits are defined according to the European vehicle fleet and timing belt sales statistics.

A clear and precise method.

Each kit comes with precise instructions that are sufficient for changing a timing belt or chain, or for adjusting the timing.

Regular updates : See www.facom.com for our latest products and applications.



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TIMING KITS: ALLOCATION TABLE

RENAULT

- **Timing Belt Diesel engine:** 1.5dCi - 1.9dCi - 1.9dTi - 2.2dCi - 2.5dCi.
Models: Clio, Espace, Kangoo, Laguna, Logan (LSO), Megane Scenic, Modus, Scenic, Scenic RX4, Traffic.
- **Timing Belt Petrol engine:** 1.2 16V - 1.4 - 1.4 16V - 1.6 - 1.6 16V - 1.8 - 2.0 - 2.0 16V.
Models: Clio, Espace, Grand Scenic, Kangoo, Laguna, Logan, Megane, Megane Scenic, Modus, Twingo, Wind.

NISSAN

- **Timing Belt Diesel engine:** 1.5dCi - 1.9dCi - 2.5dCi.
Models: Almera, Cube, Interstar, Juke, Kubistar, Micra, Note, NV200, Primastar, Primera, Qashqai, Tiida.

MAZDA

- **Timing Belt Diesel engine:** 1.4TDCi - 1.6D.
Models: 2, 3, 5.

OPEL

- **Timing Belt Diesel engine:** 1.9CDTi - 2.2DTi - 2.5CDTi.
Models: Astra H, Movano-A, Signum, Vectra C, Vivaro, Zafira B.
- **Timing Belt Petrol engine:** 1.6 - 1.6 OPC/VXR - 1.8 - 2.0 TURBO.
Models: Agila, Ascona, Astra, Astra Max, Belmont, Cavalier, Combo, Corsa, Insignia, Kadett-E, Meriva, Nova, Signum, Tigra, Vectra, Zafira.

AUDI - VOLKSWAGEN - SEAT - SKODA

- **Timing Belt Diesel engine:** "TDI PD": 1.2 - 1.4 - 1.9 - 2.0 • "TDI CR": 1.6 - 2.0 • "SDI": 1.7 - 1.9 - 2.0 • 1.7D - 1.9D - 1.9TDI - 1.9D TURBO - 2.5 TDI (6-cylinder engine with rotating pump).
Models: AUDI: A2, A3, A4, A5, A6, A8, Allroad, Q5. SEAT: Altea, Arosa, Cordoba, Exeo, Ibiza, Leon, Toledo. SKODA: Fabia, Felicia/Van/Pick Up, Octavia, Praktik, Roomster, Superb, Yeti. VW: Beetle, Bora, Caddy, Eos, Fox, Golf, Golf Plus, Jetta, Lupo, Passat, Polo, Scirocco, Sharan, Tiguan, Touran, Transporter.
- **Timing Belt Petrol engine:** 1.4 16V - 1.4 FSI - 1.6 - 1.6 16V - 1.6 FSI - 1.8 - 1.8 TURBO - 2.0 - 2.0FSI - 2.0FSI.
Models: AUDI: A2, A3, A3 Cabrio, A4, A6, S3, TT. SEAT: Alhambra, Altea, Cordoba, Ibiza, Inca, Leon, Toledo, Sharan. SKODA: Fabia, Octavia. VW: Beetle, Bora, Caddy, Corrado, Golf, Jetta, Lupo, Passat, Polo, Scirocco, Sharan, Touran, Vento.

FORD

- **Timing Belt Diesel engine:** 1.4TDCi - 1.6TDCi - 1.8D - 1.8D TURBO - 1.8TDCi - 1.9TDI PD - 2.0TDCi - 2.2TDCi - 2.5D - 2.5D TURBO.
Models: C-Max, Courier, Escort, Fiesta, Fiesta Econetic, Focus, Focus C-MAX, Fusion, Galaxy, Mondeo, Orion, Tourneo Connect, Transit, Transit Connect.
- **Timing Belt Petrol engine:** 1.25 - 1.4 - 1.6 - 1.6 Ti - VCT - 1.6SCTi EcoBoost - 1.8 - 2.0.
Models: C-Max, Cougar, Fiesta, Focus, Focus C-MAX, Fusion, Grand C-max, Mondeo, Puma, Tourneo Connect, Transit Connect.

PEUGEOT - CITROEN

- **Timing Belt Diesel engine:** 1.4HDi - 1.5D - 1.6HDi - 1.9D - 2.0HDi - 2.0DHDi 16V - 2.2HDi - 2.5D TURBO.
Models: AX, Berlingo, Bipper, C1, C2, C3, C4, C5, Dispatch, Nemo, Jumper, Jumpy, Relay, Saxo, Xsara / 106, 107, 205, 206, 207, 306, 307, 308, 309, 405, 406, 407, 605, 607, 806, 807, 1007, 3008, 5008, Boxer, Expert, Partner.
- **Timing Belt Petrol engine:** 1.0 - 1.1 - 1.4 - 1.6 - 1.6 VTS - 1.8 16V - 2.0 - 2.0 16V - 2.2.
Models: AX, Berlingo, BX, C2, C3, C3 Pluriel, C4, C5, C8, C15, Dispatch, Evasion, Jumper, Jumpy, Relay, Saxo, Synergie, Xantia, XM, Xsara, ZX / 106, 205, 206, 306, 307, 309, 405, 406, 407, 605, 607, 806, 807, 1007, Boxer, Expert, Partner/Ranch.

ALFA ROMEO - FIAT - LANCIA

- **Timing Belt Diesel engine:** 1.6JTDM 16V - 1.6 MULTIJET - 1.9 MULTIJET - 1.9JTD - 1.9JTD/MULTIJET - 2.0JTDM 16V - 2.0 MULTIJET - 2.4JTD.
Models: ALFA: 147, 156, 159, 166, Brera, Crosswagon, Giulietta, GT, Mito, Spider. FIAT: Brava, Bravo, Cromia, Doblo, Doblo Cargo, Grande Punto, Idea, Linea, Marea, Marengo, Multipla, Palio Weekend, Punto, Punto Evo, Sedici, Stilo, Strada Pick-up. LANCIA: Delta, Kappa, Lybra, Musa, Thesis.



TIMING KITS

FIAT timing kit - Diesel engines no.1

- Makes: FIAT, ALFA ROMEO, LANCIA, FORD, OPEL, SUZUKI.
- Timing chain diesel engine: 1.3 MULTIJET - 1.3 CDTi - 1.3 TDCi - 1.3 JTD/MULTIJET.
- Models:
 - ALFA: Mito.
 - FIAT: 500, Doblo, Doblo Cargo, Fiorino, Grande Punto, Idea, Linea, Panda, Punto, Punto Evo, Qubo, Strada Pick-up.
 - LANCIA: Musa, Ypsilon.
 - OPEL: Agila, Astra H, Combo C, Corsa C, Corsa D, Meriva, Tigra B.
 - SUZUKI: Ignis, Swift, Wagon/Wagon R+.
 - FORD: Ka.
- Supplied in plastic case.



| SE | H [mm] | L [mm] | P [mm] | ΔΔ [kg] |
|------------|--------|--------|--------|---------|
| DT.FIAT-D1 | 77 | 325 | 265 | 1.4 |

FIAT timing kit - Diesel engines no.2

- Makes: FIAT, LANCIA, ALFA ROMEO, OPEL.
- Timing belt diesel engine: 1.6 JTDM 16V - 1.6 MULTIJET - 1.9 MULTIJET - 1.9 CDTi (engine Z19) - 1.9 JTD - 1.9 JTD/MULTIJET - 2 JTDM 16V - 2 MULTIJET - 2.4 JTD.
- Models:
 - ALFA: 147, 156, 159, 166, Brera, Crosswagon, Giulietta, GT, Mito, Spider.
 - LANCIA: Delta, Kappa, Lybra, Musa, Thesis.
 - OPEL: Astra H, Signum, Vectra C, Zafira B.
 - FIAT: Brava, Bravo, Cromia, Doblo, Doblo Cargo, Grande Punto, Idea, Linea, Mareva, Marengo, Multipla, Palio Weekend, Punto, Punto Evo, Seidici, Stilo, Strada Pick-up.
- Supplied in plastic case.



| SE | H [mm] | L [mm] | P [mm] | ΔΔ [g] |
|------------|--------|--------|--------|--------|
| DT.FIAT-D2 | 45 | 250 | 205 | 935 |

FIAT timing kit - Petrol engines

- Makes: FIAT, ALFA ROMEO.
- Petrol engine: 0.9 TWINAIR - 1.4 MULTIAIR.
- Models:
 - ALFA: Giulietta, Mito.
 - FIAT: 500, Punto Evo.
- Supplied in plastic case.



| SE | H [mm] | L [mm] | P [mm] | ΔΔ [kg] |
|------------|--------|--------|--------|---------|
| DT.FIAT-P1 | 77 | 325 | 265 | 1.6 |



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TIMING KITS

FORD timing kit - Diesel engines



- Makes: FORD, MAZDA.
- Timing belt diesel engine: 1.4 TDCi - 1.6D - 1.6 TDCi - 1.8 D - 1.8 D TURBO - 1.8 TDCi - 1.9 TDI PD - 2.0 TDCi - 2.2 TDCi - 2.5 D - 2.5 TCI - 2.5 D TURBO.
- Models:
 - FORD: C-Max, Courier, Escort, Fiesta, Fiesta Econetic, Focus, Focus C-MAX, Fusion, Galaxy, Mondeo, Orion, Tourneo Connect, Transit, Transit Connect.
 - MAZDA: 2, 3, 5.
- Supplied in plastic case.

|  | H [mm] | L [mm] | P [mm] | $\Delta\Delta$ [kg] |
|---|--------|--------|--------|---------------------|
| DT.FORD-D1 | 77 | 325 | 265 | 2.2 |

FORD timing kit - Petrol engines



- Make: FORD.
- Timing belt petrol engine: 1.25 - 1.4 - 1.6 - 1.6 Ti-VCT - 1.6 SCTi EcoBoost - 1.8 - 2.0.
- Models:
 - FORD: C-Max, Cougar, Fiesta, Focus, Focus C-MAX, Fusion, Grand C-max, Mondeo, Puma, Tourneo Connect, Transit Connect.
- Supplied in plastic case.

|  | H [mm] | L [mm] | P [mm] | $\Delta\Delta$ [kg] |
|---|--------|--------|--------|---------------------|
| DT.FORD-P1 | 77 | 325 | 265 | 1.1 |

OPEL timing kit - Diesel engines




- Make: OPEL.
- Diesel engine: 1.5 D - 2.0 DTi (chain) - 2 D TURBO - 2.2DTi (chain) - 2.2D - 3.0 D TURBO - 3.1 D TURBO.
- Models:
 - OPEL: Astra G, Cavalier, Frontera B, Midi, Monterey, Omega B, Signum, Sintra, Vectra B, Vectra C, Zafira A.
- Dimensions (L x W x H.): 325 x 265 x 77 mm.
- Supplied in plastic case.

|  | H [mm] | L [mm] | P [mm] | $\Delta\Delta$ [kg] |
|---|--------|--------|--------|---------------------|
| DT.OPEL-D1 | 77 | 325 | 265 | 2.9 |

■ OPEL timing kit - Petrol engines

- Make: OPEL.
- Petrol engine: 1.0/1.2/1.4 ("X" & "Z" chain engines) - 1.6 - 1.6 OPC/VXR - 1.8 - 2.0 TURBO.
- Models:
 - OPEL: Agila, Ascona, Astra, AstraMax, Belmont, Cavalier, Combo, Corsa, Insignia, Kadett-E, Meriva, Nova, Signum, Tigra, Vectra, Zafira.
- Supplied in plastic case.



|  | H [mm] | L [mm] | P [mm] | ΔΔ [kg] |
|---|--------|--------|--------|---------|
| DT.OPEL-P1 | 77 | 325 | 265 | 1.5 |

■ PSA timing kit - Diesel engines

- Makes: CITROEN, PEUGEOT.
- Timing belt diesel engine: 1.4 HDi - 1.5 D - 1.6 HDi - 1.9 D - 2.0 HDi - 2.0 DHDi 16V - 2.2 HDi - 2.5 D TURBO.
- Models:
 - CITROEN: AX, Berlingo, Bipper, C1, C2, C3, C4, C5, Dispatch, Nemo, Jumper, Jumpy, Relay, Saxo, Xsara.
 - PEUGEOT: 106, 107, 205, 206, 207, 306, 307, 308, 309, 405, 406, 407, 605, 607, 806, 807, 1007, 3008, 5008, Boxer, Expert, Partner.
- Supplied in plastic case.



|  | H [mm] | Width l [mm] | L [mm] | ΔΔ [kg] |
|---|--------|--------------|--------|---------|
| DT.PSA-D1 | 95 | 335 | 400 | 2.4 |

■ PSA timing kit - Petrol engines

- Makes: CITROEN, PEUGEOT.
- Timing belt petrol engine: 1.0 - 1.1 - 1.4 - 1.6 - 1.6 VTS - 1.8 16V - 2.0 - 2.0 16V - 2.2.
- Models:
 - CITROEN: AX, Berlingo, BX, C2, C3, C3 Pluriel, C4, C5, C8, C15, Dispatch, Evasion, Jumper, Jumpy, Relay, Saxo, Synergie, Xantia, XM, Xsara, ZX.
 - PEUGEOT: 106, 205, 206, 306, 307, 309, 405, 406, 407, 605, 607, 806, 807, 1007, Boxer, Expert, Partner/Ranch.
- Dimensions (L. x W. x H.): 325 x 265 x 77 mm.
- Supplied in plastic case.



|  | H [mm] | Width l [mm] | L [mm] | ΔΔ [kg] |
|---|--------|--------------|--------|---------|
| DT.PSA-P1 | 77 | 265 | 325 | 1.9 |



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TIMING KITS

- Timing kit for PSA & MINI 1.4L and 1.6L gasoline chain engines.



- For the 1.4L engines N12, B14(AB), EPC(C), 8FP, 8FR, present in PEUGEOT, CITROEN, MINI gasoline vehicles.
- For the 1.6L engines N12 B16(A), N14 B16A, N14 B16CD (T0), EP6(5FW), EP6C, (5FH) (5FS), EP6CDT(5FV), EP6DT, 5FD, 5FE, 5FF, 5FK, 5FM present in PEUGEOT, CITROEN, MINI vehicles.
- Compliant with manufacturer tools.
- Supplied with the list of allocations and a cross-reference table between FACOM references and manufacturer references.
- Supplied in plastic case.

| FACOM | H [mm] | L [mm] | P [mm] | $\Delta\Delta$ [kg] |
|------------------|--------|--------|--------|---------------------|
| DT.PCM-P1 | 80 | 325 | 260 | 2.4 |

- Timing kit for PSA, MINI and BMW 1.6 L and 2.0 L gasoline chain engines.



- For the 1.6L and 2.0L engines DV6TED4, DV6ATED4, DV6C, DV6, DV6UC, DV6DU, 9HZ, 9HX, 9HY, 9HP, 9HR, 9HJ, 9HL, 9HU, 9HW, 9HH, W16 D16, and N47 present in PEUGEOT, CITROEN, MINI, BMW Diesel vehicles.
- Compliant with manufacturer tools.
- Supplied with the list of allocations and a cross-reference table between FACOM references and manufacturer references.
- Supplied in plastic case.

| FACOM | H [mm] | L [mm] | P [mm] | $\Delta\Delta$ [kg] |
|-------------------|--------|--------|--------|---------------------|
| DT.PCMB-D1 | 75 | 315 | 257 | 1.9 |

- Blocking kit for PSA 1.0L and 1.2L gasoline engines



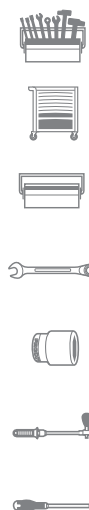
- For vehicles since 2012.
- CITROEN vehicles: C1 II, C3 III, C4 II, C4 CACTUS, DS4.
- PEUGEOT vehicles: 108, 208, 308.
- Cross-reference between manufacturer and FACOM references.
- Supplied in plastic case with foam module.
- Instructions.

| FACOM | Width l [mm] | L [mm] | P [mm] | $\Delta\Delta$ [kg] |
|-------------------|--------------|--------|--------|---------------------|
| DT.PSA-P10 | 245 | 280 | 80 | 1.3 |

RENAULT timing kit - Diesel engines

- Makes: RENAULT, NISSAN, OPEL.
- Timing belt diesel engine: 1.5 dCi - 1.9 dCi - 1.9 dTi - 1.9CDTi (F9Q engines) - 2.2 dCi - 2.2 DTI - 2.5 dCi - 2.5 CDTi.
- Models:
 - NISSAN: Almera, Cube, Interstar, Juke, Kubistar, Micra, Note, NV200, Primastar, Primera, Qashqai, Tiida.
 - OPEL: Movano-A, Vivaro.
 - RENAULT: Clio, Espace, Kangoo, Laguna, Logan (LSO), Megane Scenic, Modus, Scenic, Scenic RX4, Traffic.
- Supplied in plastic case.

|  | H [mm] | L [mm] | P [mm] | $\Delta\Delta$ [kg] |
|---|--------|--------|--------|---------------------|
| DT.REN-D1 | 75 | 325 | 260 | 2.3 |



RENAULT timing kit - Petrol engines

- Make: RENAULT.
- Timing belt petrol engine: 1.2 16V - 1.4 - 1.4 16V - 1.6 - 1.6 16V - 1.8 - 2.0 - 2.0 IDE - 2.0 16V.
- Models:
 - RENAULT: Clio, Espace, Gran Scenic, Kangoo, Laguna, Logan, Megane, Megane Scenic, Modus, Twingo, Wind.
- Supplied in plastic case.

|  | H [mm] | L [mm] | P [mm] | $\Delta\Delta$ [kg] |
|---|--------|--------|--------|---------------------|
| DT.REN-P1 | 75 | 325 | 260 | 2.2 |



Timing set for RENAULT 1.6 dci - 2.0 dci engines

- For 1.6 dci R9M engines mounted in RENAULT vehicles.
- For 2.0 dci M9R engines mounted in RENAULT, NISSAN, OPEL vehicles.
- Compliant with manufacturer tools.
- Supplied with a list of allocations and a cross-reference table between FACOM references and manufacturer references.
- Supplied in plastic case.

|  | H [mm] | L [mm] | P [mm] | $\Delta\Delta$ [kg] |
|---|--------|--------|--------|---------------------|
| DT.REN-D2 | 90 | 400 | 314 | 1.9 |



FLUO

VAG timing kit - Diesel engines no.1

- Makes: AUDI, SEAT, VW, SKODA.
- Timing belt diesel engine: "TDI PD": 1.2 - 1.4 - 1.9 - 2.0 - "TDI CR": 1.6 - 2.0 - "SDI": 2.0.
- Models:
 - AUDI: A2, A3, A4, A5, A6, Q5.
 - SEAT: Altea, Arosa, Cordoba, Exeo, Ibiza, Leon, Toledo.
 - SKODA: Fabia, Octavia, Praktik, Roomster, Superb, Yeti.
 - VW: Beetle, Bora, Caddy, Eos, Fox, Golf, Golf Plus, Jetta, Lupo, Passat, Polo, Scirocco, Sharan, Tiguan, Touran, Transporter.
- Supplied in plastic case.

|  | H [mm] | L [mm] | P [mm] | $\Delta\Delta$ [kg] |
|---|--------|--------|--------|---------------------|
| DT.VAG-D1 | 74 | 325 | 262 | 1.9 |



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TIMING KITS

■ VAG timing kit - Diesel engines no.2



- Additional tooling kit for the timing case DT.VAG-A.
- Makes: Audi, VW, Seat, Skoda.
- Timing belt diesel engine: "TDI PD": 1.9 - 2.0 with oval crankshaft pulley.
 - Models:
 - AUDI: A3, A4, A6.
 - SEAT: Altea, Cordoba, Ibiza, Leon, Toledo.
 - SKODA: Fabia, Octavia, Roomster, Superb.
 - VW: Beetle, Bora, Caddy, Eos, Golf, Jetta, Passat, Polo, Scirocco, Sharan, Touran, Transporter.
- Supplied in blister.



| | H [mm] | L [mm] | P [mm] | ΔΔ [g] |
|------------------|--------|--------|--------|--------|
| DT.VAG-D2 | 40 | 145 | 80 | 310 |

■ VAG timing kit - Petrol engines no.1



- Makes: AUDI, SEAT, VW, SKODA.
- Chain petrol engine: 1.2 (6V & 12V 3-cylinder engine) - 1.4 FSI - 1.4 TSI - 1.6 FSI.
- Models:
 - AUDI: A3.
 - SEAT: Cordoba, Ibiza.
 - SKODA: Fabia, Praktik, Roomster.
 - VW: Eos, Fox, Golf, Jetta, Passat, Polo, Scirocco, Sharan, Tiguan, Touran.
- Supplied in plastic case.



| | H [mm] | L [mm] | P [mm] | ΔΔ [kg] |
|------------------|--------|--------|--------|---------|
| DT.VAG-P1 | 77 | 325 | 265 | 1.9 |

■ VAG timing kit - Petrol engines no.2



- Makes: AUDI, SEAT, VW, SKODA.
- Timing belt petrol engine: 1.4 16V - 1.4 FSI - 1.6 - 1.6 16V - 1.6 FSI - 1.8 - 1.8 TURBO - 2.0 - 2.0TFSI - 2.0 FSI.
- Timing belt diesel engine: 1.7 D - 1.7 SDI - 1.9 D - 1.9 TDI - 1.9 SDI - 1.9 D TURBO - 2.5 TDI (rotating pump 6-cylinder engine).
- Models:
 - AUDI: A2, A3, A4, A6, A8, Allroad, S3, TT.
 - SEAT: Alhambra, Altea, Arosa, Cordoba, Ibiza, Inca, Leon, Toledo.
 - SKODA: Fabia, Felicia/Van/Pick Up, Octavia, Superb n.
 - VW: Beetle, Bora, Caddy, Corrado, Fox, Golf, Jetta, Lupo, Passat, Polo, Scirocco, Sharan, Touran, Transporter Vento.
- Supplied in plastic case.



| | H [mm] | L [mm] | P [mm] | ΔΔ [kg] |
|--------------------|--------|--------|--------|---------|
| DT.VAG-PTD1 | 77 | 325 | 265 | 2.2 |

■ Blocking kit for VAG 1.0L gasoline engines



- For vehicles since 2011.
- SEAT vehicles: Mil.
- SKODA vehicles: CitiGO And Fabia III.
- Volkswagen vehicles: UP! AND POLO.
- Cross-reference between manufacturer and FACOM references.
- Supplied in plastic case with foam module.
- Instructions.



| | Width l [mm] | L [mm] | P [mm] | ΔΔ [kg] |
|-------------------|--------------|--------|--------|---------|
| DT.VAG-P10 | 245 | 280 | 80 | 1.4 |

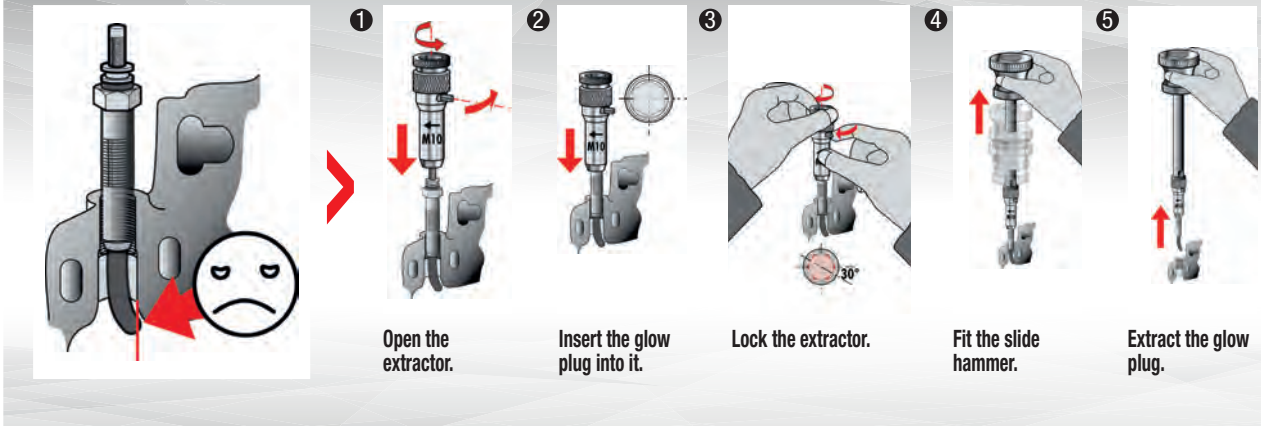
Flywheel stay

- To lock the flywheel crown gear.



| | H [mm] | Width l [mm] | L [mm] | ΔΔ [g] |
|-------------|--------|--------------|--------|--------|
| D.86 | 25 | 46 | 30 | 21 |

DCR.HR-100: DEFORMED GLOW PLUGS EXTRACTOR



Composite chisels to separate casings

- To separate chain timing casings, rocker covers, crank cases, for engine and gearbox.
- No damage to the parting surfaces.
- Comprising:
 - Short straight chisel.
 - Long straight chisel.
 - Short round chisel.
 - Long round chisel.



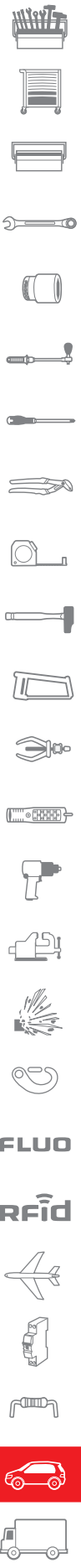
| | ΔΔ [g] |
|---------------|--------|
| DM.PS4 | 164 |

Set of pullers for deformed glow plugs

- For diesel engines.
- To extract deformed glow plugs from the combustion chambers.
- 3 x Pliers to work with 8, 9 and 10 mm glow plugs.
- Inertia puller:
 - Mass: 1.37 kg.
 - Length: 19 cm.



| | ΔΔ [kg] |
|-------------------|---------|
| DCR.HR-100 | 2.4 |



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BELT TENSION TESTING

DT.HERTZ - BELT TENSION TESTER

The right tension guaranteed



Avoid breakage

The correct belt tension is essential:

- If insufficiently tight,
 - The auxiliary belts will slip and become worn.
 - Timing belts may jump (engine breakdown)
- If over-tightened,
 - The forces will damage the rollers and pumps.
 - Risk of premature belt failure.

Easy, accurate testing

- Simply place the ultra-compact sensor against the belt and induce a vibration in the belt (like a guitar string).
- Compare the displayed reading with the recommended value in the guide.

Regular updates.

- The DT.DOC guide is regularly updated.
- See www.facom.com for the reference number of the latest version.

Multi-make electronic belt tension-meter



- Quickly and easily checks the tension of timing and auxiliary belts.
- Can be used for all belts on the market.
- Compact, manoeuvrable tool, can be operated one-handed.
- Cable length: 1,200 mm.
- Supplied in a plastic case; with reference value guide.

| | H [mm] | Width l [mm] | L [mm] | ΔΔ [g] |
|-----------------|--------|--------------|--------|--------|
| DT.HERTZ | 28 | 50 | 135 | 150 |

Multi-make electronic belt tension-meter



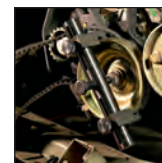
- For checking timing belt tension.
- Comes in a plastic case with 6 interchangeable ends, a belt thickness measuring gauge and a calibration checking gauge.

| | H [mm] | Width l [mm] | L [mm] | ΔΔ [g] |
|--------------|--------|--------------|--------|--------|
| DM.16 | 50 | 120 | 170 | 420 |

TIMING PULLEY AND BELT FITTING AND REMOVAL

Multi-diameter damper pulley puller

- Removes crankshaft multi-groove pulleys without damage.
- Lockable, adjustable legs to fit the various pulley sizes.
- Compact design for working on engine in situ.
- Pulley capacity: 45 to 175 mm.
- No groove: 3.56 mm.



| | |
|-------|---------------------|
| | $\Delta\Delta$ [kg] |
| DM.50 | 1,120 |

Multi-diameter timing and injection pump pulley puller

- Removes pulleys without damage.
- Adjustable legs adapt to differing pulley diameters.
- Compact design for working on engine in situ.



| | | | |
|--------|--------------|--------|--------------------|
| | Width l [mm] | L [mm] | $\Delta\Delta$ [g] |
| DM.17A | 110 | 90 | 925 |

DT.TW - BELT TENSIONER WRENCHES



Handy

- One "arm" = 5 dimensions.
- Suited to most vehicles on the market.
- Angled wrenches for optimised access
- Mechanical wrench locking on the arm.



Hand and fast hanging system

5-piece set of belt-tensioner nut wrenches

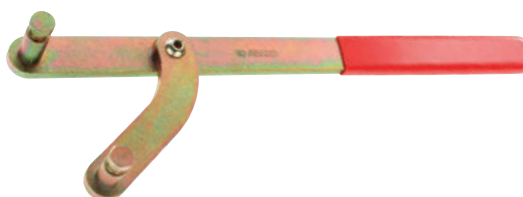
- To turn tensioner belts, timing pulley nuts and auxiliary elements even in confined positions.
- Wrench easy fastening / unfastening system integral to the handle.
- Comes with 445 mm handle and 5 ring wrenches 13 - 15 - 16 - 17 - 19 mm.



| | |
|-------|---------------------|
| | $\Delta\Delta$ [kg] |
| DT.TW | 1.4 |

Universal pulley wrench

- For blocking, cranking and holding camshaft and injection pump pulleys.



| | | |
|--------|--------|--------------------|
| | L [mm] | $\Delta\Delta$ [g] |
| DT.CLE | 410 | 950 |



Alternator pulley kit



- For fitting and removing the alternator pulley.
- 13 tools.
- Comprising:
 - 2 TORX bits T40 - T50.
 - 2 XZN bits M8 - M10.
 - 2 6-point bits 8 - 10mm.

- 1 TORX COMBI socket.
- 1 XZN COMBI socket.
- 2 special fitting / removal sockets.
- 1 double 6-point socket.
- 1 square / 6-point adapter.
- Supplied in a plastic case,



| | H [mm] | L [mm] | P [mm] | ΔΔ [kg] |
|--------|--------|--------|--------|---------|
| DM.APR | 65 | 330 | 140 | 1.6 |

Flexible belt kit



- For fitting / removing flexible service belts (A/C, power steering, alternator) without tensioner.
- Comprises two special tools for fitting and removing the belt.
- Special profile allowing use also on different diameter pulleys.
- Compact dimensions for access into the engine compartment.
- No regulations required for use on different pulleys.
- Supplied in a plastic case, dim. (L. x W. x H.): 210 x 120 x 55 mm.

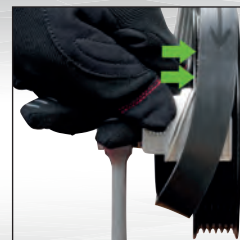


| | ΔΔ [g] |
|--------|--------|
| DT.SFB | 400 |

DT.SFB - FLEXIBLE BELT FITTING/REMOVING TOOL

Handy

- Tool suited to simple and double diameter pulleys.
- No adjustment required for fitting or removing.
- Suited to all types of elastic belts: A/C, alternators, belts.



Universal clutch aligner no.2



- The tool centres and holds the clutch disc and mechanism.
- Supplied complete with 3 expanding clamps:
 - Clamp for diameter 18 to 21 mm.
 - Clamp for diameter 22 to 25 mm.
 - Clamp for diameter 14.5 to 18 mm.



| | ΔΔ [g] |
|-------|--------|
| DM.30 | 258 |

Inside and outside circlip® pliers



- Interchangeable tips for:
 - Diameter 8 to 63 mm for inside Circlips®.
 - Diameter 3 to 63 mm for outside Circlips®.
- Contains:
 - 469.PA: Inside circlip® pliers.
 - 467.PA: Outside circlip® pliers.
 - 82H.2.5: Key.
 - Set of 18 removable tips.
 - Plastic box.



| | ΔΔ [kg] |
|-----|---------|
| 470 | 1,500 |

GEARBOX AND CLUTCH

Set of spare screws

- For Ref.: 467 - 469 - 470.

| | |
|---|--------------------|
|  | $\Delta\Delta$ [g] |
| 467.01AJ2 | 4 |



Transmission collar clamp

- To crimp collars on transmission bellows.
- For OETIKER collar.



| | | | | |
|---|--------|--------------|--------|--------------------|
|  | H [mm] | Width l [mm] | L [mm] | $\Delta\Delta$ [g] |
| DM.14 | 20 | 50 | 280 | 475 |

BRAKES - HG

INSPECTION

Disc brake vernier caliper

- Vernier caliper for checking the thickness of brake discs.
- Accurate, error-free reading.
- Measurements can be taken with wheel in place (if no protective bodywork).
- Can quickly demonstrate to customers the need for changing brakes.
- Capacity 0 to 50 mm, outer thickness measurement of the disc brakes of cars and LCV's.
- Nose length: 50 mm.
- 0.1 mm reading increments.
- Mechanical memory device.
- Supplied in a reinforced fabric case with serial number for traceability in ISO certified workshops.



| | |
|---|--------------------|
|  | $\Delta\Delta$ [g] |
| DF.18-01 | |

Drum brake vernier caliper

- Capacity and reading to suit requirements of car, LCV and HGV applications.
- Capacity: 40 to 300 mm, inner thickness measurement of brake drums on cars and LCVs.
- Nose length: 100 mm.
- 0.20 mm reading increments internal drum measurements for cars and LCVs.
- 0.10 mm increments for readings between tips.
- Supplied in a reinforced fabric case with serial number for traceability in ISO certified workshops.



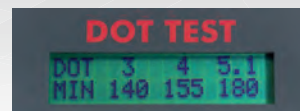
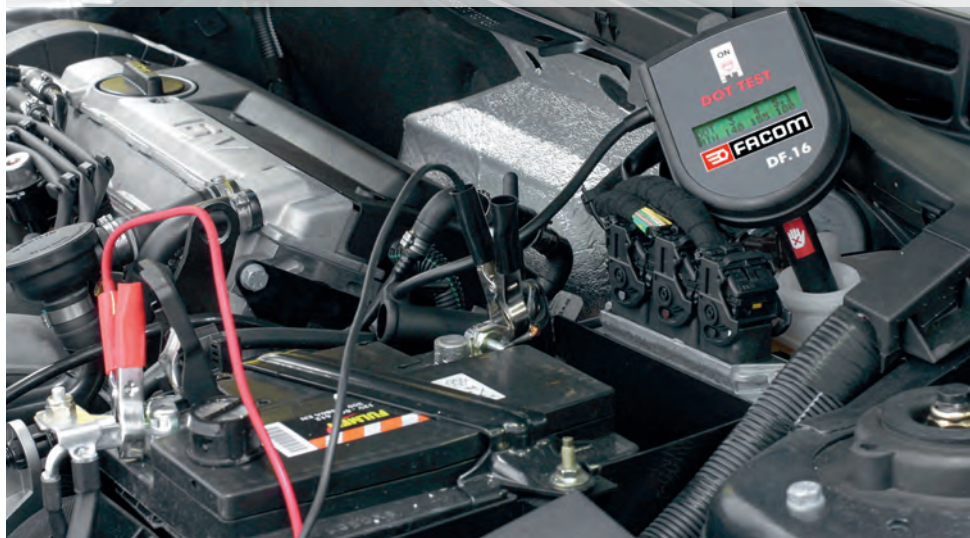
| | |
|---|--------------------|
|  | $\Delta\Delta$ [g] |
| DF.19-01 | |



INSPECTION

DF.16 - BRAKE FLUID TESTER

Quick brake fluid tester



A quick, cost-effective analysis. For the safety of your customers.

- Water in the brake fluid can turn into vapour under severe or repeated braking, making the brake pedal ineffective.

The boiling point of brake fluids must exceed a specified minimum value :

| | |
|---------|-------|
| DOT 3 | 140°C |
| DOT 4 | 155°C |
| DOT 5.1 | 180°C |

■ Brake fluid tester



- For testing brake fluids (DOT3 - DOT4 - DOT5.1).
- Measures brake fluid boiling point.
- Automatic test lasting up to 1 min.
- LCD display.
- °C / °F switch.
- Accuracy: 3%.
- Power supply: 12 V (vehicle battery).
- Plastic case.

| | H [mm] | Width l [mm] | L [mm] | ΔΔ [kg] |
|-------|--------|--------------|--------|---------|
| DF.16 | 80 | 285 | 350 | 1,17 |

DIAGNOSTICS AND BLEEDING

■ Analog brake bleeder

- Tank 10L.
- Accessory storage.
- Connects to the vehicle's 12 V battery.
- "High volume" 1.5 litre /min pump (open circuit. allowing fast brake fluid renewal.
- Pressure adjusted by button.
- Automatic low level stop gauge.
- Regulated pressure adjustable from 0.5 to 4 bar with Glycerine pressure gauge.



| | |
|---|---------------------|
|  | $\Delta\Delta$ [kg] |
| DF.81 | 16,2 |



■ Digital brake bleeder

- Tank 10L.
- Connects to the vehicle's 12 V battery.
- "High volume" 1.5 litre /min pump (open circuit. allowing fast brake fluid renewal.
- A vehicle battery can be integrated to make it stand-alone.
- Digital controls for accurate pressure settings (pitch 0.1 bar).
- Automatic depressurization when stopping the bleeder.
- Low level indication with automatic stop.
- "BA" type warning indicating the battery is low.
- Lateral hose storage tab.
- Certificate of compliance issued at end of manufacturing (individual check).
- Storage tray covering the battery.
- Regulated pressure adjustable from 0 to 4 bar.



| | |
|---|---------------------|
|  | $\Delta\Delta$ [kg] |
| DF.101 | 17 |



DIAGNOSTICS AND BLEEDING

Universal plug for bleeding brakes and clutches of LCV's and HGV's



- Can be used for bleeding the brakes and clutches of 90% vehicles (incl. Asian makes, except Honda).
- Can also be used for bleeding HGV clutches.
- Claw system overcomes the many different bayonet shapes and different types and diameters of screw heads used by the various vehicle manufacturers.
- Working diameter: 35 to 83 mm.
- Minimum clearance required above the jar: 80 mm.
- Maximum working pressure of the bleeder: 3 bar.
- Connection by Rectus series 21 male coupling.
- 90° swivel connection.



| | H [mm] | Width l [mm] | L [mm] | ΔΔ [g] |
|------------------|--------|--------------|--------|--------|
| DF.20-12A | 85 | 195 | 115 | 475 |

Aluminium brake bleeder plug



- Special thread: 44 - 45 mm.
- 90° rotating coupling.
- Height including plunger: 46 mm.
Height of the rotating part above the alu body: 16.3 mm
- Used with DF.81 and DF.101 drains to automatically level the brake fluid jar.



| | ΔΔ [g] |
|------------------|--------|
| DF.20-07A | 70 |

Aluminium brake bleeder plug



| | ΔΔ [g] |
|-----------------|--------|
| DF.2007D | 60 |



DISC BRAKES

Brake disc module



- Including:
 - 31.14X15 - 31.16X17: Extra-slim open end wrenches for removing the locknuts on the caliper yokes.
 - 467BF.12 - 467BF.13 - 467BF.14: Hinged combination wrench ratchets for removing the caliper yokes.
 - NJ.260: Impact screwdriver + bit holder sockets.
 - NJ.236A: 3/8" bit holder impact socket.
 - 83SH.7: Spherical head male key 7 mm.
 - 249.G4: Sheathed drift punch, diam. 4 mm.
 - Bits: Torx® ENX.230 - ENX.240, Phillips® N° 2 and 6-point ENH.205 5 mm.
- Thermoformed module.



| | H [mm] | Width l [mm] | L [mm] | Contents | ΔΔ [kg] |
|----------------|--------|--------------|--------|----------|---------|
| MOD.DFD | 40 | 175 | 418 | PL.685 | 1.7 |

Wire brush



- For cleaning calipers.



| | H [mm] | Width l [mm] | L [mm] | ΔΔ [g] |
|-------------|--------|--------------|--------|--------|
| DF.3 | 15 | 45 | 225 | 65 |

DF.17 : PNEUMATIC DISC BRAKE PISTON PUSHING/TURNING TOOLS



Essential for replacing brake pads.

Quick and easy to use

- The pneumatic cylinder holds the flange against the head of the brake piston and the long handle allows the piston to be wound-back in a clockwise or anti-clockwise direction with minimum effort.

Saves time

- The special Facom flange design covers the entire European vehicle fleet with only 9 flange types, minimising the number of flange changes and saving time.

■ Brake disc caliper tool

- Pneumatic cylinder for retracting and rotating the piston.
- Frequency of use: at each brake pad replacement.
- Compatible with flanges DF.6A.
- Can be used on clockwise and anti-clockwise pistons.
- Max pressure: 6.2 bars 1/4 NPT, Diameter 10 mm 3/8".
- Supplied in a plastic case with operating instructions and application guide.



ΔΔ [kg]

DF.17



■ Pneumatic piston pushing tool

- Pneumatic cylinder for retracting and rotating the piston.
- Can be used on clockwise and anti-clockwise pistons.
- Max pressure 6.2 bars 1/4 NPT. Ø 10 mm 3/8".
- Including:
 - 1 pneumatic tool DF.17.
 - 9 cups: DF.6-2A, DF.6-3A, DF.6-4A, DF.6-5, DF.6-8, DF.6-9, DF.6-14, DF.6-15, DF.6-16.

Examples of allocation:

- DF.6-2A: Ford Focus - Renault Megane III - Volkswagen Touran...
- DF.6-3A: Alfa Romeo Mito - Audi A3 - Citroën C3, C4, C5, Picasso, DS3, Ford Focus - Opel Astra - Peugeot 308, 3008, 508, 5008, 607, Renault Megane III - Volkswagen Golf V and 6, Polo...
- DF.6-4A: Citroën C5 - Ford C-Max, Focus - Renault Espace, Laguna, Megane III...
- DF.6-5: BMW Series 7 - Honda Accord - Mercedes Class B - Toyota Land Cruiser...
- DF.6-8: Honda CRZ - Hyundai IX20, I10 - Mini Cooper - Renault Clio III, Megane III, Twingo - Suzuki Swift - Toyota Prius...
- DF.6-9: Mini Cooper - Toyota Auris.
- DF.6-14: Iveco Daily.
- DF.6-15: Renault Scenic, Laguna.
- DF.6-16: Renault Master 3 phase I.
- Supplied in a plastic case with operating instructions and application guide.



ΔΔ [kg]

DF.17-100A



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DISC BRAKES

Multiple diameter piston pushing tool



- Fork with 2 Pins, spacing: min 15 mm- max 34 mm.
- Fork with 3 Pins, spacing: min 15 mm- max 30 mm.
- Thickness 21 mm pins included.
- Allows working on most brake pistons.
- Evolutive for future vehicles.



| FACOM | $\Delta\Delta$ [kg] |
|---------|---------------------|
| DF.6-2P | 0.136 |
| DF.6-3P | 0.131 |

Brake calliper piston pusher



- Pushes back double or quadruple pistons perfectly parallel simultaneously.
- Thrust power 215 kg with one hand (2,200 N).
- Handle can be used to push or release pressure.
- Rotating head: easy work to the left and right.
- AUDI / MERCEDES / BMW / RENAULT (e.g. Megane RS)/ CITROËN (e.g. DS3 Racing) specifications.



| FACOM | $\Delta\Delta$ [kg] |
|-------|---------------------|
| DF.23 | 1.271 |

DRUM BRAKES

Hand-brake pliers

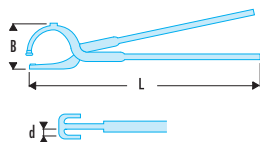


- For holding the handbrake cable spring.
- For easy hook-up of hand-brake cable with both hands.
- Set of 2 "spring stop" ends, dim.(L x W.): 70 x 10 mm.
- 1 magnetic bit holder ref AM.M1.



| FACOM | Width l [mm] | L [mm] | $\Delta\Delta$ [g] |
|-------|--------------|--------|--------------------|
| DF.2 | 10 | 70 | 40 |

196 Brake-spring pliers



- For removing shoe springs.
- Suitable for right-handed and left-handed working.



| FACOM | B [mm] | d [mm] | L [mm] | $\Delta\Delta$ [kg] |
|--------|--------|--------|--------|---------------------|
| 196.TS | 83 | 3 | 350 | 0.580 |
| 196.KS | 100 | 5 | 485 | 1.2 |

Hand-brake pliers



- For easy hook-up of hand-brake cable.



| FACOM | L [mm] | $\Delta\Delta$ [g] |
|-------|--------|--------------------|
| D.79A | 230 | 180 |

DRUM BRAKES

Steady-spring tool

- Fits steady-spring caps for compression against drum-brake shoes.
- Adapts to all makes.
- Length: 240 mm.
- Diameter: 34 mm.



| | L [mm] | ΔΔ [g] |
|---------------|--------|--------|
| D.104B | 240 | 240 |

Drum brake servicing module

- Including:
 - D.104A: Steady-spring tool.
 - DF.2: Hand-brake cable screwdriver.
 - D.79A: Hand-brake pliers.
 - 43.8x10 - 43.11x13: Flare-nut wrenches.



| | H [mm] | Width l [mm] | L [mm] | Contents | ΔΔ [kg] |
|----------------|--------|--------------|--------|----------|---------|
| MOD.DFT | 40 | 175 | 418 | PL.684 | 0.855 |

BRAKE LINES

Flange press

- Specifically designed for flanging (diam. 4.75 mm) automotive brake lines.
- SAE or DIN fittings are formed easily with the help of its 3 T hydraulic jack.
- Compact size allows working in situ on vehicles.
- Diameter: 4.75 mm.



| | H [mm] | Width l [mm] | L [mm] | ΔΔ [kg] |
|----------------|--------|--------------|--------|---------|
| DF.475A | 75 | 200 | 212 | 1.1 |

Flange press set for S.A.E., DIN, S.A.E./DIN fittings

- Capacity: for copper and steel pipework diameter 4.75 to 12 mm; 3/16" to 1/2".
- Wall thickness: 0.7 to 1 mm.
- Press can be secured in a vice for increased stability.
- Fast and effortless forming.
- Kit includes 11 punches and 10 dies. Instructions explain selection according to flange type.
- Steel case.



| | H [mm] | Width l [mm] | L [mm] | ΔΔ [kg] |
|------------|--------|--------------|--------|---------|
| 347 | 82 | 224 | 396 | 7.9 |



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DLS.500HP : SUSPENSION

Spring compressors

Safety and efficiency

DLS.500HP offers the highest productivity.

- Easy and fast changing of struts to adapt to the vehicle concerned.
- Effortless pneumatic compression.

While guaranteeing optimum safety.

- By full application of the European Directive on Machinery 2006 42/CE.

Springs = Danger

Compression of springs, increasingly strong and complex-shaped remains a frequent source of occupational accidents in workshops.

4 safety benefits

- Strut strength tested at 1.5 times the max pressure of the machine.
- Protection barrier closing mandatory, checked by an air intake cut-off valve preventing use in open position.
- Compression speed regulated at less than 10 cm /second.
- Check valves preventing clamps from opening in case of accidental air supply cut.



**DLS.500HP =
MAXIMUM
SAFETY**



SPRING COMPRESSORS

■ Pneumatic spring compressor

- Pneumatic spring compressor for removing and fitting shock absorbers on Mac Pherson struts.
- Pressure: 1200 to 2200 kg according to air pressure (7 to 10 bars).
- Compression travel: 440 mm.
- Triple safety device:
 - Protection barrier with automatic air stop device.
 - Regulated compression speed.
 - Protection valve preventing jaw opening in case of accidental air cut off.
- Supplied with 2 flanges (springs 78 to 220 mm).

|  | H [mm] | L [mm] | P [mm] | ΔΔ [kg] |
|---|--------|--------|--------|---------|
| DLS.500HP | 1530 | 590 | 590 | 66,0 |



■ High safety pneumatic spring compressor

- Pneumatic spring compressors for removing and fitting shock absorbers on Mac Pherson struts.
- Pressure: 1200 --> 2200 kg according to air pressure (7 to 10 bars).
- Compression travel 440 mm.
- 6 safety devices:
 - Reinforced frame.
 - Air cut off when the cage is opened.
 - Valve preventing the arms from raising in case of accidental air supply cut-off. No sudden spring decompression.
 - Cage locked when the arms start lowering.
 - Highly enveloping cage (upper, centre and lower protection).
 - Long pedal to allow the operator to stand far.
- Supplied with 2 flanges (springs 78 to 182 mm).
- Other cups also available.
- EC compliance certified by an independent laboratory.
- Meets the CE directive on machinery and the French labor code. Directive 2006/42/CE of the European Parliament and Council of 17 May 2006 on machinery.

|  | H [mm] | L [mm] | P [mm] | ΔΔ [kg] |
|---|--------|--------|--------|---------|
| DLS.500HPS | 1535 | 648 | 731 | 89,0 |



■ Special forks for Asian vehicles

|  | ΔΔ [kg] |
|---|---------|
| DLS.500-04 | 0,970 |



SPRING COMPRESSORS

Special upper fork for Mercedes prior to 2010



| Part Number | Weight [kg] |
|-------------|-------------|
| DLS.500-05 | 4,510 |

Lower fork for Renault - Nissan



• For Renault Koleos / Nissan Qashquai, reversed pitch springs.

| Part Number | Weight [kg] |
|--------------|-------------|
| DLS.500-07HP | 4,400 |

Lower fork 105-182 mm



| Part Number | Weight [kg] |
|--------------|-------------|
| DLS.500-08HP | 4,300 |

Lower fork 125-205 mm



| Part Number | Weight [kg] |
|--------------|-------------|
| DLS.500-02HP | 4,500 |

Vice for lower grip on Mc Pherson strut



• For long and regular springs.

| Part Number | Weight [kg] |
|--------------|-------------|
| DLS.500-06HP | 3,966 |

U.89 SPRING COMPRESSOR - AN UPGRADEABLE INVESTMENT



The most universal system

Whether used on a workbench or workstation, this tool evolves according to your needs through its range of accessories available.

- Since it was set up in 1995, our database lists all vehicles U.89 adapts to.
- Each unit is supplied with a list of allocations and updates are available on www.facom.com.



Mini mechanical set

- Kit includes
 - U.89M: Mechanical body.
 - U.89J1: Set of forks.
 - U.89J2: Set of forks.
- Supplied with operating instructions and vehicle application guide.



| Icon | Model | Weight $\Delta\Delta$ [kg] |
|------|---------|----------------------------|
| | U.89M20 | 14.7 |

Standard mechanical set

- Kit includes
 - U.89M: Mechanical body.
 - U.89J1: Set of forks.
 - U.89J2: Set of forks.
 - U.89J3: Set of forks.
- Supplied with operating instructions and vehicle application guide.



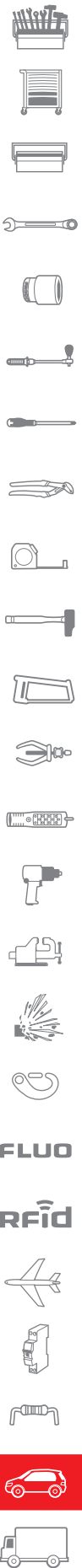
| Icon | Model | Weight $\Delta\Delta$ [kg] |
|------|---------|----------------------------|
| | U.89M30 | 19.1 |

Mechanical body

- Two-stage screw operated telescopic body.
- Hexagonal drive: 22 mm.
- Can be used with an electric or mechanical impact wrench.
- Tested to 100,000 N.
- Fitted with a safety pin.
- Can be used with all U.89 forks.
- Travel: 235 mm.
- Extended length: 540 mm.
- Compressed length: 305 mm.
- Diameter: 70 mm.



| Icon | Model | Length L [mm] | Weight $\Delta\Delta$ [kg] |
|------|-------|---------------|----------------------------|
| | U.89M | 305 | 5.0 |



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SPRING COMPRESSORS

■ Mechanical compressor with multi-diameter fork set



- Kit includes
 - U.89M2: Mechanical body with two-position spacer.
 - U.89JMA: Pair of multi-diameter forks for spring diam. 100 to 215 mm.
- Supplied with operating instructions and vehicle application guide.



| | $\Delta\Delta$ [kg] |
|-----------------|---------------------|
| U.89M2JM | 11.6 |

■ Spring compressor - Universal system with interchangeable forks



- Two-stage screw operated telescopic body (hexagonal up to 22 mm).
- Mobile spacer for two possible working positions for the forks.
- Drive possible by 1/2 inch impact wrench.
- Body tested to 100,000 N.
- Travel: 235 mm.
- Compressed length: 305 mm.
- Extended length: 540 mm.
- Diameter: 70 mm.
- Supplied with 3 sets of plastic-coated forks J1 - J2 - J3.
- CE.



| | L [mm] | $\Delta\Delta$ [kg] |
|-----------------|--------|---------------------|
| U.89M230 | 305 | 14.7 |

■ Mechanical body



- Two-stage screw operated telescopic body.
- Hexagonal drive size 22 mm. Can be used with 1/2 inch electric or pneumatic impact wrench.
- Tested to 100,000 N.
- Spacer allowing to place the lower fork in two positions: allows for maximum travel on springs with few coils.
- Can be fitted with all U.89 forks.
- Travel: 235 mm.
- Compressed length: 305 mm.
- Extended length: 540 mm.
- Diameter: 70 mm.



| | L [mm] | $\Delta\Delta$ [kg] |
|---------------|--------|---------------------|
| U.89M2 | 305 | 5.1 |

■ Multi-diameter fork set



- Offset forks: grip the spring at the end of the coil, this increasing the compressor's effective travel. This shape of fork is particularly effective for use on new-generation springs having a small number of coils.
- A hinged joint at the connection to the compressor allows the fork to be aligned with the slope of the coil.
- New design, fork fits directly onto the springs for quick installation.
- Suitable for 100 to 215 mm springs.
- Compatible with all U.89 bodies without modification.



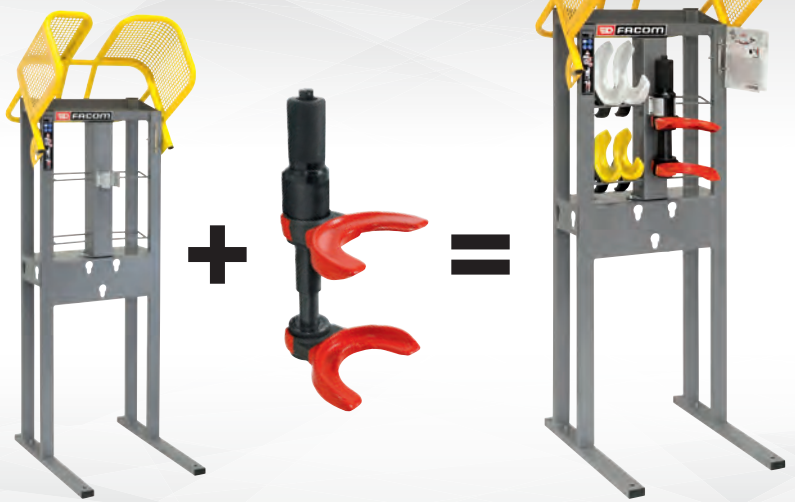
| | $\Delta\Delta$ [kg] |
|----------------|---------------------|
| U.89JMA | 6.6 |

WORKSTATION

SUSPENSION - WORKSTATION



Upgrade your U.89 spring compressor.



Spring compressor workstation (naked)

- Designed to receive FACOM compressor ref U.89M2 - U.89H2.
- Can accommodate up to 6 sets of forks.
- Impact wrench storage space.
- Space for set D.83C (new XL module).
- Space for application list.
- Hook for torque wrench.
- Small plan dimensions: 590 x 590 mm.
- Closed height 1.430 max height: 1.726 mm.
- Supplied with operating instructions and vehicle application guide.

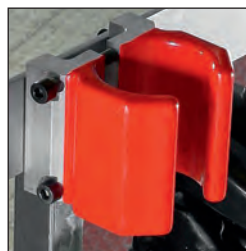
| | |
|----------------|---------------------|
| | $\Delta\Delta$ [kg] |
| DLS.400 | 39.385 |



Compressor holder

- For attaching a compressor type U.89M or U.89H to workstation DLS.300.
- For bodies of max. diameter: 55 mm.

| | |
|-------------------|---------------------|
| | $\Delta\Delta$ [kg] |
| DLS.300-03 | 0.7 |



Special workbench vice

- For holding struts vertically on the workbench.
- Max diameter: 65 mm.
- Dimensions (L. x W.): 410 x 190 mm.
- Finish: zinc.

| | | | |
|--------------|--------------|--------|---------------------|
| | Width l [mm] | L [mm] | $\Delta\Delta$ [kg] |
| D.22B | 190 | 410 | 3.5 |



STRUT REMOVAL

Mac Pherson clamp separator set



- Including:
 - DS.10A: 7.5 x 9 mm.
 - DS.11A: 5.2 x 6.9 mm.
 - DS.12A: 6.6 x 7.9 mm.
 - DS.13: 4.3 x 6.0 mm.
 - DS.14: 12.7 x 16.7 mm.
 - DS.P: 3/8" (9.53 mm) square drive operating handle.
 - J.236: Bit holder socket.
- Helps open the clamp on vehicles fitted with Mac Pherson struts.
- Allows shock-absorbers to be stripped down at the work bench.
- Fast and efficient.
- All vehicles fitted with removable clamps (Citroen, Peugeot, Ford, VAG, Audi).
- A "junior" series ratchet can be used instead of the handle (space provided in the case).



| | |
|---|---------------------|
|  | $\Delta\Delta$ [kg] |
| DS.J5 | 0,484 |

TOOLS FOR SHOCK ABSORBERS

Set of 28 tools in modules for Mac Pherson strut rods



- Including:
 - 10 long-reach sockets 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 mm.
 - Slotted bits (3 No.) 5, 6 and 8 mm.
 - 6-point sockets (3 No.) 8, 9 and 11 mm.
 - 1 magnetic bit holder extension 7.94 mm.
 - 1 bit-holder extension 6.35 mm.
 - 1 extension with square drive 8 mm.
 - EH bits: 6 - 7 - 8 mm .
 - Bits: EXR.140 - EX.245 - XZN EV.212.
 - 1 handle: J.120.
 - 1 wrench 68: 17x19.
 - 1 torque wrench adaptor.
- For holding the strut rod while tightening or loosening of the nut, for tightening with a torque wrench to a specified torque.
- Tool can be extended to include other bits (Torx, XZN, 6-point).
- XL module.
- Supplied in modules for placing in the drawer of a roller cabinet or workbench. Empty spaces for additional tools.



| | | | | | |
|---|--------|--------------|--------|----------|---------------------|
|  | H [mm] | Width l [mm] | L [mm] | Contents | $\Delta\Delta$ [kg] |
| D.83C | 40 | 188 | 418 | PL.647 | 3.8 |

Shock absorber removing lever



- Chrome finished steel arm.
- 6 adjustment positions by ball locked axis (similar to ratchet square).
- Length: 120 cm.
- Tube diameter: 32 mm.
- Tube thickness: 3 mm.
- Knurled grip zone. length: 300 mm.
- Hook with two adjustment heights.
- DLS.40A-1: Axis, diameter 11.7 mm.



| | | |
|---|--------|---------------------|
|  | L [mm] | $\Delta\Delta$ [kg] |
| DLS.40A | 120 | 5.6 |

WHEEL REMOVAL AND INSPECTION

Wheel nut tightening module

- 77AT0D: Cross brace.
- S.208 - 200: Torque wrench 40 to 200 Nm.
- NSB.17 - 19 - 21: Long-reach impact sockets.
- SH.17 - 19 - 21: 6-point sockets.
- Tray PL.337.



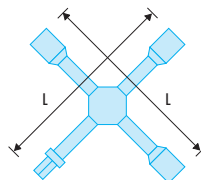
| Mod. | H [mm] | Width l [mm] | L [mm] | Contents | ΔΔ [kg] |
|---------|--------|--------------|--------|----------|---------|
| MOD.208 | 40 | 350 | 418 | PL.337A | 5.5 |

Cross braces

- Designed for removing wheel nuts on cars, light commercial and heavy goods vehicles.
- Replaceable bit on wrenches featuring a square drive.
- 77.P1: Spare male 3/4" square bit.
- 77.T1: Spare male 1/2" square bit.



| Mod. | d [mm] | L [mm] | Square ["] | ΔΔ [kg] |
|---------|-------------------|--------|------------|---------|
| 77A.TO | 17 - 19 - 23 | 400 | 1/2 | 1.8 |
| 77A.T02 | 17 - 19 - 21 | 400 | 1/2 | 1.8 |
| 77A.T0D | 17 - 19 - 22 | 400 | 1/2 | 1.8 |
| 77A.PL1 | 24 - 27 - 30 - 32 | 700 | - | 4.7 |
| 77A.PL2 | 24 - 27 - 33 | 700 | 3/4 | 4.6 |



Air-line connector and gauge

- Pressure range: 0 to 12 bar.
- Impact-resistant rubber casing.



| Mod. | H [mm] | Width l [mm] | L [mm] | ΔΔ [g] |
|--------|--------|--------------|--------|--------|
| U.179A | 80 | 120 | 250 | 850 |



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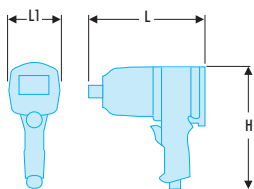


1/2" IMPACT WRENCHES

1/2" impact wrench



- High torque 1/2" Impact Wrench
- Progressive trigger for better control
- Cold forged twin hammer impact system for greater durability
- 3 forward, 1 reverse speed with single hand operation
- Ergonomic handle provides user comfort"



| FACOM | H [mm] | L [mm] | L1 [mm] | Maximum RPM [min] | BPM | Sound Pressure DB[A] | Vibration [M/S2] | ΔΔ [kg] |
|-----------------|--------|--------|---------|-------------------|------|----------------------|------------------|---------|
| NS.3100G | 212 | 162 | 75.3 | 7000 | 1300 | 93 (K=3) | 6.2 (K=2.5) | 2 |

1/2" reinforced impact sockets:



- Up to 7 times stronger.
- Separation with metallic strapping.
- Teflon lining to protect alloy rims.
- Short-reach sockets 15, 17, 19, 21, 22 mm.



| FACOM | ΔΔ [kg] |
|----------------|---------|
| NSI.15L | 0,156 |
| NSI.17L | 0,156 |
| NSI.19L | 0,156 |
| NSI.21L | 0,156 |
| NSI.22L | 0,156 |

1/2" reinforced long-reach impact sockets



- Up to 7 times stronger.
- Separation with metallic strapping.
- Teflon lining to protect alloy rims.
- Long-reach sockets 17, 19, 21 mm.

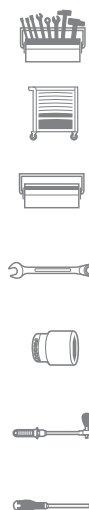


| FACOM | ΔΔ [kg] |
|-----------------|---------|
| NSI.19EL | 0,400 |
| NSI.21EL | 0,400 |

Set of 1/2" reinforced long-reach impact sockets

- Up to 7 times stronger.
- Separation with metallic strapping.
- Teflon lining to protect alloy rims.
- New Detection Box set: instant availability check even when the box is closed.
- Easy to store and carry in a pocket or tool box.
- Content: - NSI.17EL - NSI.19EL - NSI.21EL.

| NSI | H [mm] | L [mm] | P [mm] | ΔΔ [kg] |
|---------|--------|--------|--------|---------|
| NSI.3EL | 120 | 200 | 120 | 1.3 |



Set of 1/2" reinforced impact sockets

- Up to 7 times stronger.
- Separation with metallic strapping.
- Teflon lining to protect alloy rims.
- New Detection Box set: instant availability check even when the box is closed.
- Easy to store and carry in a pocket or tool box.
- Content: - NSI.15L - NSI.17L - NSI.19L - NSI.21L - NSI.22L.

| NSI | H [mm] | L [mm] | P [mm] | ΔΔ [kg] |
|--------|--------|--------|--------|---------|
| NSI.5L | 45 | 185 | 120 | 1.3 |



Set of 1/2" reinforced impact sockets

- Up to 7 times stronger.
- Separation with metallic strapping.
- Teflon lining to protect alloy rims.
- New Detection Box set: instant availability check even when the box is closed.
- Easy to store and carry in a pocket or tool box.
- Content: - NSI.17L - NSI.19L - NSI.21L.

| NSI | H [mm] | L [mm] | P [mm] | ΔΔ [g] |
|--------|--------|--------|--------|--------|
| NSI.3L | 40 | 210 | 160 | 689 |



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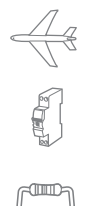
Impact sockets for Mercedes wheel nuts

- 1/2" square drive bit.
- Rim protection tube.

| NSI | d [mm] | d1 [mm] | L [mm] | ΔΔ [g] |
|-------|--------|---------|--------|--------|
| NS.MB | 26 | 27,4 | 80,3 | 172 |



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WHEEL REMOVAL AND INSPECTION

■ Air-hose reel



- Polyurethane hose, inner diam. 10 mm.
- Specifically designed for high air consuming tools (impact wrenches).
- Very high strength, return spring tested to 20,000 cycles minimum.
- Length: 15 m + 1.
- Hose stop every 50 cm.
- Pressure: 15 bar.



| Model | ΔΔ [kg] |
|-------|---------|
| N.709 | 7.8 |

■ Valve core remover



- The swivelling head and fluted body derived from the Facom Microtech screwdriver simplifies valve core removal and fitting.



| Model | L [mm] | [g] |
|-------|--------|-----|
| D.93 | 102 | 15 |

■ D.3 - Tyre-remover



- Double tee section for added strength.
- Finish: zinc and chrome-plated.



| Model | Width l [mm] | L [mm] | ΔΔ [g] |
|---------|--------------|--------|--------|
| D.3-300 | 300 | 300 | 200 |
| D.3-400 | 400 | 400 | 400 |
| D.3-500 | 500 | 500 | 570 |
| D.3-600 | 600 | 600 | 900 |

■ Silent valve core remover



- Noise < 85 dB(A) in compliance with the French labour code and the European Directive 2003/10/CE.
- Safety against core and particle projection.
- No impact on deflating speed.
- Adapted to all tires whatever the size (particularly suited to Heavy Goods Vehicle tires).
- Supplied with a 2-slot case (contains one valve core remover only).



| Model | ΔΔ [g] |
|--------|--------|
| DR.SIL | 101 |

■ 1 Silencer for deflating HGV wheels + 2-slot cover



- Maintains noise < 85 dB(A) in compliance with the French labour code and the European directive 2003/10/CE.
- Safety against the risk of projection of the valve and particles.
- Does not slow down deflating.
- Suited to all sizes of tires (particularly adapted to HGV tires).
- Supplied with 2-slot bag (contains one valve core remover only).



| Model | ΔΔ [g] |
|---------|--------|
| DR.SILH | 101 |

U.16 - Ball joint pullers

- Used to dismount steering and suspension ball joints.
- Supplied with a set of 2 spare safety pins.
- U.16-05J3: Set of 3 pins for U.16B and U.16A18.
- U.16-A45-05J3: Set of 3 shear pins for U.16B32 and U.16B45.



| Part No. | A [mm] | d [mm] | L [mm] | ΔΔ [kg] |
|----------|--------|--------|--------|---------|
| U.16A18 | 45 | 16 | 100 | 0,635 |
| U.16B | 45 | 22 | 100 | 0,665 |
| U.16B32 | 80 | 32 | 158 | 2,5 |
| U.16A45 | 80 | 45 | 158 | 2,6 |

Lower ball-joint socket

- Castle nut socket.
- 6-point drive: 32 mm.
- Tightening torque: 250 N.m.
- For models:
 - CITROEN: BX / Xsara / XM / Xantia.
 - PEUGEOT: 306 / 309 / 405 / 406.



| Part No. | Width l [mm] | L [mm] | ΔΔ [g] |
|----------|--------------|--------|--------|
| D.138 | 48 | 52 | 230 |

Socket for angular tightening of the hub nut

- Drive bit: 3/4".
- 6-point drive 36 mm.



| Part No. | ΔΔ [g] |
|----------|--------|
| D.143B | 415 |

Transmission collar clamp

- To crimp collars on transmission bellows.
- For OETIKER collar.



| Part No. | H [mm] | Width l [mm] | L [mm] | ΔΔ [g] |
|----------|--------|--------------|--------|--------|
| DM.14 | 20 | 50 | 280 | 475 |



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WHEEL REMOVAL AND INSPECTION

Steering ball joint separator



- Used to disassemble and assemble steering ball joints.
- Capacity Ø: 35-45 mm.
- Usable with 27 mm socket or wrench or 1/2" bit.
- Length: 402 mm.
- Head diameter: 89 mm.
- Guarantee: 2 years - repair.



| | L [mm] | ΔΔ [kg] |
|-----------------|--------|---------|
| U.7-3545 | 402 | 1.8 |

TPMS valve kit



- 12-tool set for reliable controlled torquing of TPMS type valves.
- Comprising:
 - a torque screwdriver 2 to 10 N.m A.404. Supplied with certificate of compliance, adjustment key and force grip A.300PA.
 - 3 long bits for Resistor[®] screws T10-T15-T20.EXR.110L-EXR.115L-EXR.120L
 - 1 1/4" adapter for ECR sockets.
 - 2 1/4" long-reach 6-point sockets size 11 and 12 mm, R.11LA-R.12LA
 - 1 steel valve puller with rubber protection.
 - 1 gasket tool.
- Supplied in case BP.102 and foam module PM.DRV2.



| | H [mm] | L [mm] | P [mm] | ΔΔ [g] |
|--------------|--------|--------|--------|--------|
| DR.V2 | 70 | 390 | 170 | 458 |

U.11M - Universal joint pusher - mechanical hub puller



- Complete set comprising:
- One U.9-03 screw diameter 19 mm, length 390 mm. Drive by 24 mm 6-point.
 - One slide hammer U.2A of 9.8 kg ideal for SUVs, 4X4, Light utility vehicles. Rod length 750 mm, threaded length 70 mm. Diameter M22.
 - Tray U.9-01A diameter 236 mm. Central threading M22. Suitable for 90%+ automotive fleet thanks to versatile configurations offered and the 5 legs.
 - 1 set of 5 legs U.9-02, length 169 mm. Diameter for wheel axles up to 16 mm.



| | ΔΔ [kg] |
|--------------|---------|
| U.11M | 15 |

Universal joint pusher - hydraulic hub puller.



- Complete set comprising:
- One hydraulic screw U.3 power 10 t, stroke 14 mm, threading M22X200.
 - Slide hammer U.2A of 9.8 kg ideal for SUVs, 4X4, Light utility vehicles. Rod length 750 mm, threaded length 70 mm. Diameter M22.
 - Tray U.9-01A diameter 236 mm. central threading M22. Suitable for 90%+ automotive fleet thanks to may solutions offered and the 5 legs.
 - 1 set of 5 legs U.9-02, length 169 mm. Diameter for wheel axles up to 16 mm.



| | ΔΔ [kg] |
|----------------|---------|
| U.11VHA | 26,5 |

■ Screw

- Diameter 19 mm.
- Length 390 mm.
- Drive by 24 mm 6-point.



| Part Number | Weight [kg] |
|-------------|-------------|
| U.9-03 | 1,13 |

■ Tray for hub puller

- Diameter 236 mm.
- Central threading M 22 X 200.



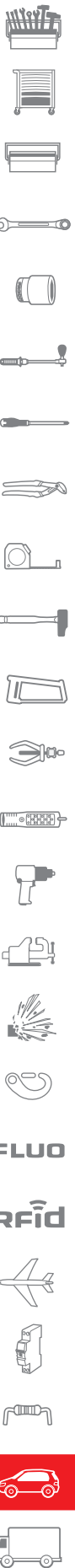
| Part Number | Weight [kg] |
|-------------|-------------|
| U.9-01A | 4,6 |

■ Slide hammer 9.8 Kg

- Rod length under handle 750 mm
- Threaded length 70 mm.
- Diameter M22.



| Part Number | Weight [kg] |
|-------------|-------------|
| U.2A | 14,3 |



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AUTOMOTIVE BODYWORK



Time-saving tools at every stage

Stripping, cutting, forming, assembling, painting, windshields, pneumatics.

In order to improve your everyday working life, Facom offers customised solutions for :

- Saving time.
- Optimising storage.

Workstations



Supports



INSPECTION LAMP - BODYWORK

779.CML BODYWORK INSPECTION LAMP

2-in-1 lamp ideal for paint and bodywork operations.



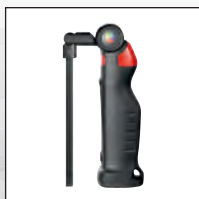
Warm light (4,500K)
 • To check light coloured surfaces.



Cold light (6,500K)
 • To check dark coloured surfaces.



Large lighting surface
 • Contrasted and natural lighting: colours respected (IRC 95).
 • Multi-position head swivelling at 360°.



Long Operating Time & Comfort
 • 3h constant lighting: 500 lumen / 190 lux at 1 m.
 • High power COB LEDs. Li-ion batteries.
 • Attachment hook and magnet for more comfort.

■ Inspection lamp - bodywork

- Ideal to compare colour charts and detect imperfections on the vehicle's bodywork.
- Two lighting modes: cold 4500K hot 6500K.
- Operating time: 3 hours.
- Charging time: 4 hours.
- 1 magnet.
- 1 removable hook.
- Supplied with mains charger and USB cable (5 V - 2A).
- Beam pivots through 360°.
- Mains or USB charging.



| | |
|---------|--------------------|
| | $\Delta\Delta$ [g] |
| 779.CML | 396 |

SUPPORTS

Bodywork component storage stand



- Maximum supported weight 150 kg.
- For storing bonnets, doors and exhaust systems.
- Incorporates anti-slide stops & gravity stabiliser.
- Dimensions: 90 x 60 x 190 cm.
- 4 castor wheels.



| | H [mm] | Width l [mm] | L [mm] | ΔΔ [kg] |
|--------------|--------|--------------|--------|---------|
| CR.S1 | 190 | 60 | 90 | 41.0 |

Mechanical component storage stand



- Storage of removed components on 4 levels for easy identification of the order of reassembly.
- 4 castor wheels for east manoeuvring around the vehicle.
- 2 fluid storage containers (water, oil) for a clean workshop.
- 2 plastic bins for fasteners.



| | H [mm] | Width l [mm] | L [mm] | ΔΔ [kg] |
|---------------|--------|--------------|--------|---------|
| CR.S11 | 61 | 90 | 165 | 40.0 |

Heavy-duty support stand for engines, gearboxes, etc.



- Maximum supported weight 450 kg.
- Modular support: many applications in bodywork and mechanical workshops.
- Raised stand (CR.S9) transforms the tool into a waist-height work table.
- Allows high pressure jetting before reassembly.
- Sliding, removable containers allow recovery of liquids.



| | H [mm] | Width l [mm] | L [mm] | ΔΔ [kg] |
|--------------|--------|--------------|--------|---------|
| CR.S6 | 40 | 80 | 90 | 27.0 |

Raised stand for CR.S6



- Maximum supported weight 450 kg.
- Raised stand transforms support (CR.S6) into a waist-height work table.
- Allows high pressure jetting before reassembly.
- Transforms into a work table with raised stand CR.S9.



| | H [mm] | Width l [mm] | L [mm] | ΔΔ [kg] |
|--------------|--------|--------------|--------|---------|
| CR.S9 | 80 | 80 | 90 | 15.5 |

STRIPPING TOOLS

Fastener removal tool



- For removing plastic fasteners securing carpets, trim and panels.
- Capacity:
 - Fitter diameter: 9 to 22 mm springs.
 - Body diameter: 4 to 9 mm springs.



| | H [mm] | Width l [mm] | L [mm] | ΔΔ [g] |
|---------------|--------|--------------|--------|--------|
| D.137A | 40 | 28 | 200 | 110 |

Set of 1/4" and 1/2" drive sockets and Torx driver bits



- Tray PL.393A.
- Plastic case BP.102.



| | H [mm] | Width l [mm] | L [mm] | ΔΔ [g] |
|----------------|--------|--------------|--------|--------|
| RSX.19A | 52 | 122 | 204 | 620 |

PLASTIC MULTIFUNCTION TOOLS



Handy

- To remove plastic parts inside or outside the vehicle.

Safe

- They protect plastic or varnished parts, trim, ceramics, etc.

Plastic component removal tool set



- For removing or unclipping plastic components (dashboard, door, external trim, snap rings, etc.).
- Set of 5 tools for different applications.
- Supplied in blister pack.



| | ΔΔ [g] |
|--------------|--------|
| CR.D5 | 275 |

4-piece set of plastic multi-use tools

- For removing adhesive weights from wheels in alloy, silicon, elastic sealing products, hub caps, etc.
- No damage to plastic or varnished parts, trim, ceramics, etc.
- 4 widths: 19 - 22 - 25 - 38 mm.
- For use with a hammer and resharpenable with a file.
- Supplied in blister pack.



| Part No. | Weight [g] |
|----------|------------|
| CR.D4 | 525 |

518A - Vice pliers for bodywork

- Bodywork vice pliers for tacking and welding operations of automotive bodywork elements.
- 518A.1: Ultra wide nose pliers.
- 518A.2: Clearance pliers.
- 518A.3: Wide pliers.
- 518A.4: Compact clearance pliers.
- 518A.5: Compact pliers.



| Part No. | H [mm] | Width I [mm] | L [mm] | Weight [g] | Weight [kg] |
|----------|--------|--------------|--------|------------|-------------|
| 518A.1 | 70 | 60 | 200 | 500 | 0,550 |
| 518A.2 | 45 | 50 | 230 | 500 | 0,560 |
| 518A.3 | 45 | 50 | 210 | 500 | 0,508 |
| 518A.4 | 25 | 40 | 210 | 500 | 0,475 |
| 518A.5 | 25 | 40 | 195 | 500 | 0,456 |
| 518A.6 | 49 | 66 | 198 | 495 | 0,495 |

Set of 6 vice pliers for bodywork

- Bodywork vice pliers for tacking and welding operations of automotive bodywork elements.
- Including:
- 518A.1: Ultra wide nose pliers.
- 518A.2: Clearance pliers.
- 518A.3: Wide pliers.
- 518A.4: Compact clearance pliers.
- 518A.5: Compact pliers.



| Part No. | Weight [kg] |
|----------|-------------|
| 518A-J6 | 2.9 |

Corded plastic stapler

- Stapler for plastic: indispensable for repairing plastic bodywork parts.
- Fast heating and temperature programming by level.
- Use on 220-240V 50hz.
- Supplied with a set of staples.



| Part No. | Width I [mm] | L [mm] | P [mm] | Weight [kg] |
|----------|--------------|--------|--------|-------------|
| CR.PS | 220 | 310 | 95 | 2.0 |



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STRIPPING TOOLS

■ Cordless plastic stapler



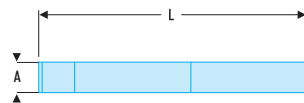
- Indispensable for repairing plastic bodywork parts.
- Two heating levels.
- LED lighting.
- Operating time about 50 staples.
- Supplied with a set of staples.



| | Width l [mm] | L [mm] | P [mm] | ΔΔ [kg] |
|---------------|--------------|--------|--------|---------|
| CR.PSC | 250 | 355 | 90 | 1.3 |

CHISELS

■ Slim-profile chisels



- Slim profile chisel.
- Chrome vanadium forged steel, treated 57 HRC on edge and 40 HRC on impact head.
- Blade width: 26 mm.
- Length: 235 mm.
- Presentation: lacquered.



| | L [mm] | ΔΔ [g] |
|------------|--------|--------|
| 259 | 235 | 240 |

■ Slim-profile chisel with guard



- Chisel with guard, diameter: 85 mm.
- Chrome Vanadium forged steel, treated 57 HRC on edge and 40 HRC on impact head.
- Blade width: 26 mm.
- Presentation: lacquered.



| | L [mm] | ΔΔ [g] |
|--------------|--------|--------|
| 259.P | 235 | 400 |

■ Wide chisel with guard



- Chisel with guard, diameter: 85 mm.
- Chrome vanadium forged steel and hardened to 57 HRC on edge.
- Edge resharpening with grinder.
- Head hardened to prevent head effect.
- Blade width: 60 mm.
- Presentation: lacquered.



| | L [mm] | ΔΔ [g] |
|--------------|--------|--------|
| 260.P | 250 | 630 |

CHISELS

Three-square scraper

- Finish: high quality steel blade, polished chrome finish and varnished wood handle.
- Shank length: 200 mm.



| ED | L [mm] | ΔΔ [g] |
|-----|--------|--------|
| 231 | 200 | 180 |

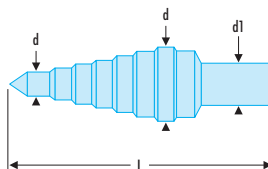
DRILL BITS

229A - Stepped bits

- For cylindrical high accuracy drilling in all materials.
- HSS steel.
- Cylindrical shank with 3 flats for proper drive, avoiding micro locking.
- Laser marking of different diameters in a groove.



| ED | d mini - maxi [mm] | d1 [mm] | L [mm] | ΔΔ [g] |
|----------|---|---------|--------|--------|
| 229A.ST0 | 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 | 6 | 65 | 25 |
| 229A.ST1 | 4 - 6 - 8 - 10 - 12 - 14 - 16 - 18 - 20 | 8 | 75 | 65 |
| 229A.ST2 | 4 - 6 - 9 - 12 - 15 - 18 - 21 - 24 - 27 - 30 - 33 - 36 - 39 | 10 | 107 | 315 |
| 229A.ST3 | 6 - 9 - 13 - 16 - 19 - 21 - 23 - 26 - 29 - 32 - 35 - 38 | 10 | 100 | 320 |



Set of 3 tapered bits

- Capacity: 3 to 30.5 mm.
- Supplied with a bottle of lubricant.
- Supplied in a pressed sheet box,



| ED | H [mm] | Width l [mm] | L [mm] | ΔΔ [g] |
|---------|--------|--------------|--------|--------|
| 229A.J3 | 38 | 100 | 120 | 555 |



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DRILL BITS

Set of mills



- Set with a 230 module, 2 centring tips and 10 reversible mills.
- Dimensions (L. x W. x H.): 115 x 65 x 22 mm.
- Set of 5 spare tips: ref 230.A1J5.

| Ref | H [mm] | Width l [mm] | L [mm] | ΔΔ [g] |
|--------|--------|--------------|--------|--------|
| 230.J1 | 22 | 65 | 115 | 90 |

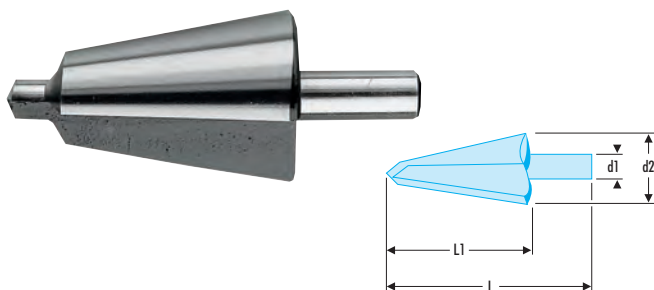
Welding spot mill



- This tool, fitted on a drill, separates two spot-welded metal sheets.
- Includes the mill holder assembly, reversible mill and centring tip.
- Not compatible with ref V.781B.
- Length: 70 mm.
- Set of 5 spare tips: 230.A1J5.

| Ref | ΔΔ [g] |
|-----|--------|
| 230 | 23 |

229A - Boring bits



- For drilling, deburring, boring thin materials: press sheet, non ferrous metals.
- HSS steel.
- Max. thickness recommended: 4 mm.
- Does not require a tapping hole.

| Ref | d1 [mm] | d2 [mm] | L [mm] | L1 [mm] | ΔΔ [g] |
|--------|---------|-------------|--------|---------|--------|
| 229A.1 | 6 | 3 - 14 | 59 | 37 | 25 |
| 229A.2 | 8 | 5 - 20 | 71 | 41 | 45 |
| 229A.3 | 9 | 16,0 - 30,5 | 76 | 48 | 130 |

VFA - Filing burrs



- Tungsten carbide mill.
- Right-hand cut.

| Ref | d [mm] | L [mm] | No. | tr/min | ΔΔ [g] |
|----------|--------|--------|-----|--------|--------|
| VFA.600 | 6 | 18 | 1 | 50000 | 25 |
| VFA.602 | 6 | 18 | 2 | 50000 | 25 |
| VFA.604 | 6 | 18 | 3 | 50000 | 25 |
| VFA.606 | 6 | 18 | 4 | 50000 | 20 |
| VFA.608 | 6 | 18 | 5 | 50000 | 20 |
| VFA.610 | 6 | 15 | 6 | 50000 | 20 |
| VFA.1200 | 12 | 25 | 1 | 20000 | 55 |
| VFA.1202 | 12 | 25 | 2 | 20000 | 55 |
| VFA.1204 | 12 | 25 | 3 | 20000 | 50 |
| VFA.1206 | 12 | 25 | 4 | 20000 | 30 |
| VFA.1208 | 12 | 25 | 5 | 20000 | 35 |
| VFA.1210 | 12 | 20 | 6 | 20000 | 40 |

MISCELLANEOUS

Steel wire brush



| Icon | H [mm] | Width l [mm] | L [mm] | ΔΔ [g] |
|----------------|--------|--------------|--------|--------|
| 270A.MA | 60 | 34 | 280 | 150 |

Set of 3 stainless steel scrapers

- Dimensions:
 - Length: 215 mm.
 - Width: 32 mm straight - 32 mm angled - 50 mm straight.



| Icon | L [mm] | ΔΔ [g] |
|---------------|--------|--------|
| 235.J1 | 215 | 427 |

Set of 3 flexible wide scrapers

- Dimension:
 - Length: 215 mm.
 - Width: 32 mm - 50 mm - 75 mm.



| Icon | ΔΔ [g] |
|---------------|--------|
| 237.J1 | 273 |



AIR HAMMER

Chisel hammer set



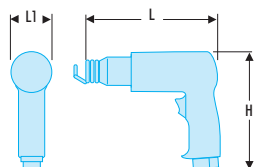
- Kit includes
 - V.320FH: 1 power chisel.
 - 1 sheet-metal cutter.
 - 1 double edge sheet-metal cutter.
 - 1 weld point cutter.
 - 1 straight chisel.
 - 1 punch.

| | H [mm] | L [mm] | P [mm] | Air Consumption [l/min] | BPM | Piston Stroke [mm] | Sound Pressure DB[A] | Vibration [M/S ²] | ΔΔ [kg] |
|----------------|--------|--------|--------|-------------------------|------|--------------------|----------------------|-------------------------------|---------|
| V.321AH | 100 | 320 | 245 | 90 | 3000 | 67 | 102.62 (K=3) | 8.01 (K=1.5) | 6,3 |

Power chisel with hexagonal shank



- Chisels available:
 - Straight chisel: V.320HA1.
 - Punch (hexagonal shank): V.320HA2.
 - Weld point cutter (hexagonal shank): V.320HA3.
 - Sheet metal cutter (hexagonal shank): V.320HA4.
 - Double-edge sheet-metal cutter (hexagonal shank): V.320HA5.
- Kit with the 5 chisels: V.321AH.

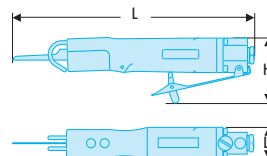


| | H [mm] | L [mm] | L1 [mm] | Air Consumption [l/min] | BPM | Piston Stroke [mm] | Sound Pressure DB[A] | Vibration [M/S ²] | ΔΔ [kg] |
|----------------|--------|--------|---------|-------------------------|------|--------------------|----------------------|-------------------------------|---------|
| V.320FH | 160 | 171 | 50 | 90 | 3000 | 67 | 102.62 (K=3) | 8.01 (K=1.5) | 1,6 |

AIR TOOLS - BODYWORK

▪ Sabre saw

- 10000 oscillations per minute for efficient cutting.
- Adjustable guide for the saw blade.
- Comfort rubber grip over aluminium to insulate.
- Teasing trigger for great control.
- Air inlet swivels to avoid coiling of the hose.
- Delivered in a starter package with 3 x 10 teeth/cm and 3 x 12 teeth/cm blades.
- Blows per minute 10000 bpm.
- Working pressure 6,2 bar.
- Average air consumption 32 l/min.
- Air inlet 1/4".
- Minimum hose diameter 10 mm - 3/8".
- Vibration 17,10 m/s²/a.
- Vibration 2,19 m/s²/K.
- Sound pressure 83,50 dB(A).
- Sound power 94,50 dB(A).
- Available as accessories:
 - Set of 6 x 12 teeth/cm blades: V.770F1.
 - Set of 6 x 10 teeth/cm blades: V.770F2.

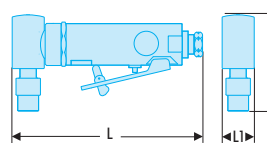


| Icon | H [mm] | L [mm] | L1 [mm] | ΔΔ [g] |
|--------|--------|--------|---------|--------|
| V.770F | 75 | 270 | 36 | 800 |



▪ Angle die grinder - 6 mm collet

- Built in air regulator which can be adjusted with a screwdriver.
- Compact angled head for difficult-to-reach places.
- Feather teasing trigger for optimum control.
- Rear exhaust hose blows air away from the workplace, and reduces the sound level.
- Supplied with 6 mm pliers + 2 open end wrenches.



| Icon | H [mm] | L [mm] | L1 [mm] | Maximum RPM [min] | Air Consumption [l/min] | Sound Pressure DB[A] | Vibration [M/S ²] | ΔΔ [kg] |
|--------|--------|--------|---------|-------------------|-------------------------|----------------------|-------------------------------|---------|
| V.347F | 347 | 160 | 27 | 18000 | 110 | 90.9 (K=3) | 1.52 (K=0.53) | 0,66 |



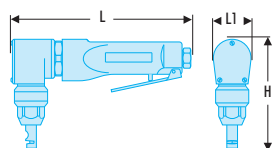
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AIR TOOLS - BODYWORK

■ Air nibbler

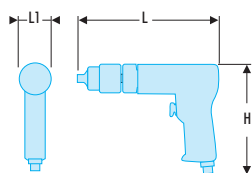


- Lever throttle for precise control and low-speed start.
- Easy access to replace the punch: V.850FKR2.
- Can produce rounded edges up to 6.5 mm radius.
- Can cut 1.8M of sheet metal per minute at a max depth of 1.2 mm.
- Durable motor design encased in a strong and robust aluminium housing.
- Blows per minute 4300 cpm.
- Working pressure 6,2 bar.
- Average air consumption 280 l/min.
- Average air consumption 9,6 cfm.
- Air inlet 1/4".
- Minimum hose diameter 10 mm - 3/8".
- Vibration 6 m/s²/a.
- Vibration 1,09 m/s²/K.
- Sound pressure 95,90 dB(A).
- Sound power 106,90 dB(A).
- Available as accessory:
 - Punch set: V.850FKR2.



| | H [mm] | L [mm] | L1 [mm] | ΔΔ [kg] |
|---------------|--------|--------|---------|---------|
| V.850F | 118 | 179 | 40,5 | 1.0 |

■ Drill 10 mm with self-locking chuck

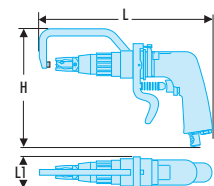


- The powerful 450 watt motor is suitable for many applications and is resistant to stalls.
- Ergonomic grip maximises operator comfort.
- Industrial quality keyless chuck for durability.
- Teasing trigger offers maximum control for the operator.
- Rear handle exhaust blows away air from the workplace.
- Swivel air inlet avoids coiling of the hose.



| | H [mm] | L [mm] | L1 [mm] | Maximum RPM [mn] | Sound Pressure DB[A] | Vibration [M/S ²] | ΔΔ [kg] |
|----------------|--------|--------|---------|------------------|----------------------|-------------------------------|---------|
| V.103MF | 145 | 234 | 44 | 2800 | 87.4 (K=3) | 7.2 (K=1.21) | 1,48 |

■ Spot weld drill remover



- Fast drilling action at 1800 RPM to get points drilled out quickly.
- Fitted with a counterarm to hold the workpiece in position.
- Depth of drilling can be easily adjusted by the operator to suit his application.
- Feather teasing trigger for optimal speed control.
- Durable and robust thanks to an aluminium casted housing.
- Delivered with one 8 mm drill point which can be ordered as an accessory.
- Milling bit diameter 8 mm.
- Available as accessory: Milling bit diameter 8 mm: V.781A1 (minimum order quantity: 5).
- Free speed 1800 tr/min.
- Milling bit size 8 mm.
- Working pressure 6,2 bar.
- Average air consumption 110 l/min.
- Average air consumption 3,9 cfm.
- Air inlet 1/4".
- Minimum hose diameter 10 mm - 3/8".
- Vibration <250 m/s²/a.
- Vibration 0,54 m/s²/K.
- Sound pressure 90,70 dB(A).
- Sound power 101,70 dB(A).



| | H [mm] | L [mm] | L1 [mm] | ΔΔ [kg] |
|---------------|--------|--------|---------|---------|
| V.781F | 198 | 270 | 53 | 2.1 |

BODYWORK REPAIR WORKSTATION

Bodywork repair workstation

- A lid:
 - Containing a panel fitted with a system for securing dressers and hammers.
 - PK perforations for freely hanging other tools.
 - 2 gas springs for comfort of use.
- 2 trays that pull out sideways to reveal a large bin for storing heavier tools such as dollies and spoons. The bottom of the trays and the bin are fitted with non-slip mats.
- 3 drawers (2 x 60 + 1 x 130 mm) compatible with the Facom modular storage system and 1 bin drawer (270 mm high) for storing bulky items and pneumatic tools.
- Galvanised steel worktop: easy-to-maintain and high resistance.
- Safe: central key locking of lid and drawers.
- Corner bumpers to avoid damage to vehicles in case of accidental contact.
- Manoeuvrability ensured by 4 large diameter wheels, 2 fixed, 2 castors, one with a brake.



| | H [mm] | L [mm] | P [mm] | ΔΔ [kg] |
|----------------|--------|--------|--------|---------|
| CR.T4XL | 1035 | 825 | 546 | 77.0 |

DENT REMOVAL

Slide puller for dent removal without paint

- Supplied with a set of 10 bits CR.GP-1
- Dimensions: 370 X 33 X 33 mm.
- Use recommended with FACOM glue CR.GLUE



| | Width l [mm] | L [mm] | P [mm] | ΔΔ [g] |
|----------------|--------------|--------|--------|--------|
| CR.GPSH | 33 | 370 | 33 | 890 |

Manual paint-free dent removal puller

- Use by hand.
- Pads 35 X 82 mm with elastomer bodywork protection.
- Supplied with a set of 10 bits CR.GP-1.
- Dimensions: 127 X 110 X 83 mm.
- Use recommended with FACOM glue CR.GLUE



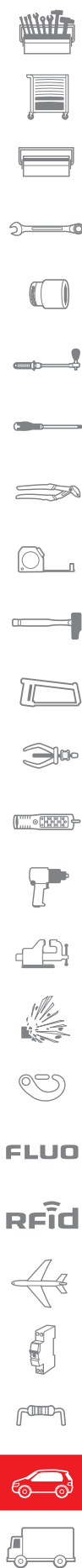
| | H [mm] | L [mm] | P [mm] | ΔΔ [g] |
|---------------|--------|--------|--------|--------|
| CR.GPP | 127 | 110 | 83 | 310 |

Paint-free dent removal by glue dots kit

- Special bodywork glue cleaned with rubbing alcohol. Easy to use.
- CR.GPSH Slide puller and set of 10 bits.
- CR.GPP Screw puller and set of 10 bits.
- CR.PRK-3 Set of 3 plastic jets.
- CR.GLUE: Box of dent removal glue for. (1 KG) to be used with hot glue gun type FACOM 900A.
- Storage box BP.C19.



| | ΔΔ [kg] |
|------------------|---------|
| CR.GP-KIT | 4,4 |



DENT REMOVAL

Slide suction puller by manual pump



- To pull dents over large areas. For door panels and LUV.
- Vacuum by manual pump.
- Supplied with 3 suction cups Ø80 mm 105 mm and 126 mm.
- Supplied in plastic box.



| | Width l [mm] | L [mm] | P [mm] | ΔΔ [kg] |
|---------------|--------------|--------|--------|---------|
| CR.SSH | 165 | 750 | 100 | 4.6 |

Slide suction puller by venturi

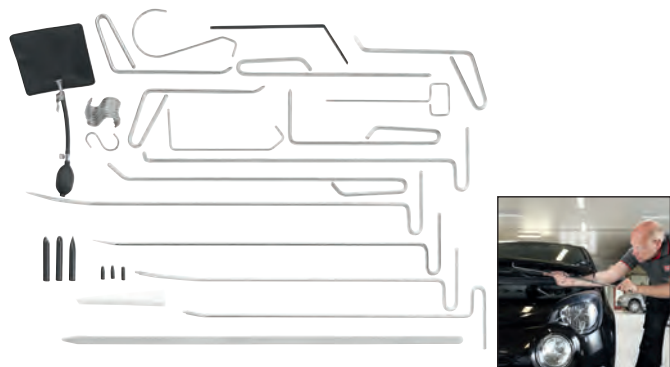


- To pull dents over large areas. For door panels and LUV.
- Vacuum by venturi supplied with compressed air.
- Supplied with 3 suction cups Ø80 mm 105 mm and 126 mm.
- Supplied in plastic box.



| | Width l [mm] | L [mm] | P [mm] | ΔΔ [kg] |
|---------------|--------------|--------|--------|---------|
| CR.ASH | 310 | 610 | 100 | 4.2 |

Set of 34 paint-free dent removal tools



- Short rods.
- Long rods.
- Flexible pads.
- Composite rod tips.
- Set of 3 composite jets.
- Hooks.
- Carry bag.



| | ΔΔ [kg] |
|---------------|---------|
| CR.PRK | 8.60 |

Set of 3 plastic jets

- For finish of dent removal operations without paint.
- Jet Ø 15 mm X 101 mm.
- 1 round tip jet.
- 1 sharp tip jet.
- 1 flat face round tip jet.



| | ΔΔ [g] |
|-----------------|--------|
| CR.PRK-3 | 78 |

Glue sticks

- Glue based on thermoplastic polymers.
- For use with hot glue gun FACOM E.900A or equivalent.
- Sticks Ø 11 mm X 198 mm.
- Suited to bodywork dent removal operations.
- Cleaned with rubbing alcohol.
- Packaged in 1 kg box.



| | L [mm] |
|----------------|--------|
| CR.GLUE | 198 |

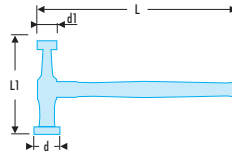
PANEL BEATING HAMMERS

861D - Bumping hammers

- Stretching and planishing hammer.
- Convex, round and square heads.
- Secure handle attachment.
- Finely polished planishing surfaces.
- Facetted hickory handle.
- Spare handle and wedge: 211.MH26.



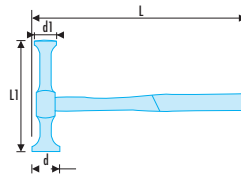
| | d [mm] | d1 [mm] | L [mm] | L1 [mm] | ΔΔ [g] |
|---------|--------|---------|--------|---------|--------|
| 861D.26 | 25 | 30 | 310 | 100 | 300 |
| 861D.30 | 30 | 35 | 310 | 100 | 390 |



Round, flat, and convex head hammer

- Bumping and planishing hammer.
- Flat, round and convex heads.
- Secure handle attachment.
- Finely polished heads.
- Hickory handle.
- Spare handle and wedge: 211.MH26.

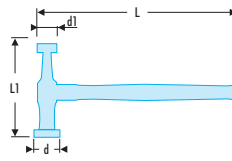
| | d [mm] | d1 [mm] | E [mm] | L [mm] | L1 [mm] | ΔΔ [g] |
|----------|--------|---------|--------|--------|---------|--------|
| 861D.RPC | 32 | 40 | 40 | 310 | 150 | 600 |



866D - Shrinking hammers

- Stretching and planishing hammer.
- 1 round ribbed face, one square smooth face.
- Secure handle attachment.
- Hickory handle.
- Spare handle and wedge: 211.MH26.

| | d [mm] | d1 [mm] | L [mm] | L1 [mm] | ΔΔ [g] |
|---------|--------|---------|--------|---------|--------|
| 866D.32 | 30 | 35 | 310 | 100 | 310 |
| 866D.41 | 35 | 40 | 310 | 100 | 380 |

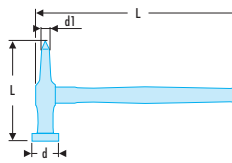


Hammer with round flat face and straight pein

- Planishing hammer.
- 1 round flat face, 1 straight pein.
- Secure handle attachment.
- Finely polished head.
- Hickory handle.
- Spare handle and wedge: 211.MH26.



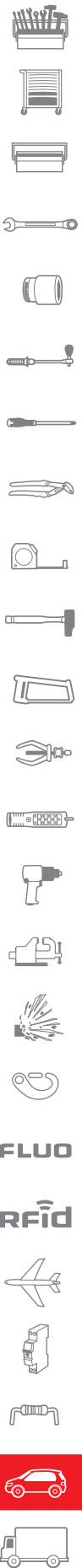
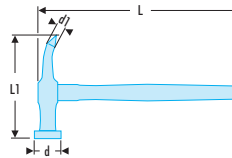
| | d [mm] | d1 [mm] | L [mm] | L1 [mm] | ΔΔ [g] |
|-------------|--------|---------|--------|---------|--------|
| 868D.40PLD1 | 40 | 23 | 310 | 140 | 320 |



Hammer with round domed face and curved pein

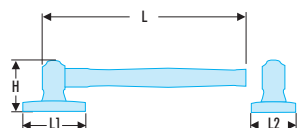
- Planishing hammer.
- 1 round domed face, 1 curved pein.
- Secure handle attachment.
- Finely polished head.
- Hickory handle.
- Spare handle and wedge: 211.MH26.

| | d [mm] | d1 [mm] | L [mm] | L1 [mm] | ΔΔ [g] |
|------------|--------|---------|--------|---------|--------|
| 868D.40BOC | 40 | 23 | 310 | 23 | 430 |



DRESSERS

Flat dresser

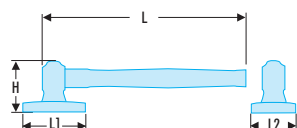


- Flat dresser.
- Secure handle attachment.
- Finely polished head.
- Hickory handle.
- Spare handle and wedge: 211.MH26.



| | H [mm] | L [mm] | L1 [mm] | L2 [mm] | $\Delta\Delta$ [g] |
|----------------|--------|--------|---------|---------|--------------------|
| 862D.60 | 70 | 295 | 50 | 30 | 320 |

Wide-dome dresser

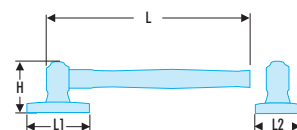


- Surface curved widthwise.
- Secure handle attachment.
- Finely polished head.
- Hickory handle.
- Spare handle and wedge: 211.MH26.



| | H [mm] | L [mm] | L1 [mm] | L2 [mm] | $\Delta\Delta$ [g] |
|----------------|--------|--------|---------|---------|--------------------|
| 864D.60 | 70 | 295 | 50 | 30 | 320 |

Shrinking dresser no.1

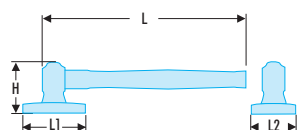


- Ribbed face.
- Secure handle attachment.
- Finely polished head.
- Hickory handle.
- Spare handle and wedge: 211.MH26.



| | H [mm] | L [mm] | L1 [mm] | L2 [mm] | $\Delta\Delta$ [g] |
|-------------|--------|--------|---------|---------|--------------------|
| 867D | 70 | 295 | 50 | 30 | 310 |

Shrinking dresser no.2



- Ribbed face.
- Secure handle attachment.
- Finely polished head.
- Hickory handle.
- Spare handle and wedge: 211.MH26.



| | H [mm] | L [mm] | L1 [mm] | L2 [mm] | $\Delta\Delta$ [g] |
|----------------|--------|--------|---------|---------|--------------------|
| 867D.DS | 70 | 295 | 50 | 30 | 310 |

DOLLIES

Regular dolly no.1



- Finish: polished.

| | H [mm] | Width l [mm] | L [mm] | ΔΔ [kg] |
|-------------|--------|--------------|--------|---------|
| 870A | 35 | 60 | 88 | 1.1 |

Regular dolly no.2



- Combination of sharp and rounded edges.
- Finish: polished.

| | H [mm] | Width l [mm] | L [mm] | ΔΔ [kg] |
|-------------|--------|--------------|--------|---------|
| 870B | 35 | 55 | 90 | 1.2 |

Slim shaping dolly



- Finish: polished.

| | H [mm] | Width l [mm] | L [mm] | ΔΔ [g] |
|-------------|--------|--------------|--------|--------|
| 909A | 23 | 60 | 88 | 750 |

Slim wedge dolly



- Slim model with a domed face.
- Finish: polished.

| | H [mm] | Width l [mm] | L [mm] | ΔΔ [g] |
|----------------|--------|--------------|--------|--------|
| 871B.45 | 37 | 55 | 125 | 900 |

Dished dolly



- Curved on all sides.
- Finish: polished.

| | H [mm] | Width l [mm] | L [mm] | ΔΔ [g] |
|-------------|--------|--------------|--------|--------|
| 874A | 26 | 65 | 106 | 980 |

Pinch wedge dolly



- One curved face and one flat face.
- Finish: polished.

| | H [mm] | Width l [mm] | L [mm] | ΔΔ [kg] |
|-------------|--------|--------------|--------|---------|
| 906A | 25 | 68 | 130 | 1.2 |



FLUO

RFid



SPOONS AND BLADES

Long single spoon



- Bumping spoon.
- Finish: polished.



| 🔧 | L [mm] | ΔΔ [kg] |
|--------------|--------|---------|
| 875.3 | 390 | 1.3 |

Angled, flat short double spoon



- Double bumping spoon, very cranked at one end.
- Also available in a long version (ref: 877A, length: 510 mm).
- Length: 400 mm.
- Finish: polished.



| 🔧 | L [mm] | ΔΔ [kg] |
|-------------|--------|---------|
| 876A | 400 | 1.7 |

Short single spoon



- Bumping spoon.
- Length: 285 mm.
- Finish: varnished and polished.



| 🔧 | L [mm] | ΔΔ [g] |
|-------------|--------|--------|
| 895A | 285 | 820 |

Flat shrinking blade



- Ribbed face.



| 🔧 | L [mm] | ΔΔ [g] |
|----------------|--------|--------|
| 891A.PL | 350 | 700 |

FILES

850 milled files



- Recommended for soft metal, cast iron, mild steel and soft plastics.
- For use with frame 851B.



| 🔧 | L [mm] | Teeth [cm] | Tooth shape | Blade profile | Number of Teeth per [cm] | Size [mm] | ΔΔ [g] |
|------------------|--------|------------|-------------|---------------|--------------------------|------------|--------|
| 850.S300 | 300 | 31/2 | Courbe | Curved | 3 1/2 | Standard | 190 |
| 850.S350 | 350 | 31/2 | Courbe | Curved | 3 1/2 | Standard | 270 |
| 850.SD350 | 350 | 31/2 | Droite | Straight | 3 1/2 | Standard | 260 |
| 850.F350 | 350 | 41/2 | Courbe | Curved | 4 1/2 | Slim | 270 |
| 850.EF350 | 350 | 6 | Courbe | Curved | 6 | Extra-slim | 300 |

Frame for milled files



- Ergonomic handle with a choice of two working positions according to the task to be performed.
- Accurate setting of the file profile.
- Takes both 300 and 350 mm file lengths.
- Dimensions (L. x W. x H.): 360 x 33 x 140 mm.
- Supplied without file.



| 🔧 | H [mm] | Width l [mm] | L [mm] | ΔΔ [g] |
|-------------|--------|--------------|--------|--------|
| 851B | 140 | 33 | 360 | 630 |

FORMING TOOL SETS

■ **CR.CM92** 135-piece bodywork tool set



| Item Code | Qty | Set Description |
|--------------|-----|--|
| 440.JP9 | 9 | Combination wrenches 8 to 19 mm |
| R2NANO | 38 | 1/4" sockets: 5.5 to 14 mm and accessories |
| SL.DBOX1 | 21 | 1/2" sockets: 8, 10 to 19, 21, 22, 24, 27, 30, 32 mm and accessories |
| AMZ.M1 | 1 | Short bit holder |
| BP.102 | 1 | Plastic case |
| ED.T | 3 | 1/4" Pozidriv® tips 101-102-103 |
| EH | 4 | 1/4" 6-point tips 103 - 104 - 105 - 106 |
| EP.T | 3 | 1/4" Phillips® tips 101 - 102 - 103 |
| ES.T | 3 | 1/4" bits for slotted heads 134.5 - 136.5 - 148 |
| EXR | 6 | 1/4" Resistor® tips 110 to 140 |
| PL.400A | 1 | Plate for screwing bits |
| 181A.25CPE | 1 | Lockable multigrip pliers |
| 192A.16CPE | 1 | Piano wire diagonal cutters |
| 185A.20CPE | 1 | Sheathed straight half-round nose pliers |
| 501A | 1 | Long-nose lock-grip pliers |
| 893.316 | 1 | Locking tape measure 3 m |
| 234 | 1 | Scriber |
| 601 | 1 | Hacksaw frame |
| 668B.10 | 10 | Saw blades |
| 882A | 1 | Metal shears |
| RD.MD200EMA | 1 | Flat second-cut file 200 mm |
| DRD.MD200EMA | 1 | Half-round second-cut file 200 mm |

| Item Code | Qty | Set Description |
|------------|-----|-------------------------------------|
| 200H.50 | 1 | Riveting hammer |
| 208A.32CBA | 1 | Interchangeable-tip mallets |
| 249 | 2 | Drift punches 2 - 4 mm |
| 256.6 | 1 | Precision centre punch |
| 259.P | 1 | Extra-flat chisel |
| 861D.RPC | 1 | Round, flat, and convex head hammer |
| 871B.45 | 1 | Slim wedge dolly |
| 861D.30 | 1 | Bumping hammer |
| 866D.32 | 1 | Finishing hammer |
| 868D.40BOC | 1 | Offset peening hammer |
| 862D.60 | 1 | Flat dresser |
| 870B | 1 | Thin toe dolly |
| 906A | 1 | Flat wedge dolly |
| 875.3 | 1 | Long single spoon |
| 895A | 1 | Short single spoon |
| 518.3 | 1 | Lock-grip pliers |
| 518.4 | 1 | Lock-grip pliers |
| 225.J3 | 3 | End mills |
| 851B | 1 | Frame for milled files |
| 850.S350 | 1 | Standard file |
| CR.D10 | 1 | Windshield wiper arm remover |
| CR.D1 | 1 | Trip removal tool |

■ **CR.858J5** Specialist 5-piece forming tool set: a must-have

• Supplied without content, detail below.



| Item Code | Qty | Set Description |
|-----------|-----|------------------|
| 861D.30 | 1 | Bumping hammer |
| 862D.60 | 1 | Flat dresser |
| 870B | 1 | Thin toe dolly |
| 906A | 1 | Flat wedge dolly |
| 871B.45 | 1 | Slim wedge dolly |



FORMING TOOL SETS

■ **CR.858J15** Specialist 15-piece forming tool set: basic for professionals



• Supplied without content, detail below.

| Ref | Qtys | Set Description |
|------------|------|------------------------|
| 868D.40BOC | 1 | Offset peening hammer |
| 866D.32 | 1 | Finishing hammer |
| 861D.30 | 1 | Bumping hammer |
| 862D.60 | 1 | Flat dresser |
| 870B | 1 | Thin toe dolly |
| 906A | 1 | Flat wedge dolly |
| 871B.45 | 1 | Slim wedge dolly |
| 872A | 1 | Curved head dolly |
| 875.3 | 1 | Long single spoon |
| 876A | 1 | Offset flat spoon |
| 895A | 1 | Short single spoon |
| 891A.PL | 1 | Flat shrinking blade |
| 851B | 1 | Frame for milled files |
| 850.S350 | 1 | Standard file |
| 209.50 | 1 | Wood mallet |

■ **CR.858J20** Specialist 20-piece forming tool set: a must-have for specialists



• Supplied without content, detail below.

| Ref | Qtys | Set Description |
|------------|------|-------------------------------------|
| 868D.40BOC | 1 | Offset peening hammer |
| 866D.32 | 1 | Finishing hammer |
| 861D.30 | 1 | Bumping hammer |
| 861D.RPC | 1 | Round, flat, and convex head hammer |
| 862D.60 | 1 | Flat dresser |
| 870B | 1 | Thin toe dolly |
| 906A | 1 | Flat wedge dolly |
| 908A | 1 | Flat regular dolly |
| 871B.45 | 1 | Slim wedge dolly |
| 874A | 1 | Dished dolly |
| 872A | 1 | Curved head dolly |
| 875.3 | 1 | Long single spoon |
| 875.4 | 1 | 40° single spoon |
| 876A | 1 | Offset flat spoon |
| 895A | 1 | Short single spoon |
| 891A.PL | 1 | Flat shrinking blade |
| 851B | 1 | Frame for milled files |
| 850.S350 | 1 | Standard file |
| 850.F350 | 1 | Fine file |
| 209.50 | 1 | Wood mallet |

MODULES

Bodywork module no.2

- Comprising:
 - 259: Slim-profile chisel 235 mm.
 - 209.50: Wooden mallet 50 mm.
 - 225.J3: Set of 3 end mills.
 - 850.S350: Standard angled milled file.
 - 851B: Frame for milled files.
 - 860H.28: Round head hammer 28 mm.
 - 861D.30: Bumping hammer.
 - 862D.60: Flat dresser.
 - 867D: Shrinking dresser.
 - 870B: Thin toe dolly.
 - 871B0.55: Wedge dolly.
 - 874A: Dished dolly.
 - 875.3: Long single spoon.
 - 906A: Pinch wedge dolly.
 - Thermoformed module PL.679 (value 3 modules).



| | H [mm] | Width l [mm] | L [mm] | Contents | ΔΔ [kg] |
|-----------------|--------|--------------|--------|----------|---------|
| MOD.CAR2 | 40 | 525 | 418 | PL.679 | 10.0 |

PLIERS

Hand punch

- Punch: 5 mm.
- Max. sheet thickness: 0.8 mm.
- Punch and die, 5 mm diameter: CAD.10RN1.



| | H [mm] | Width l [mm] | L [mm] | ΔΔ [kg] |
|--------------|--------|--------------|--------|---------|
| CAD.9 | 30 | 130 | 290 | 1.2 |

Hand crimper and punch

- Crimp width: 12 mm.
- Punch 5 mm.
- Swivel head.
- Max. sheet thickness: 0.8 mm.
- Punch and die, 5 mm diameter: CAD.10RN1.



| | H [mm] | Width l [mm] | L [mm] | ΔΔ [kg] |
|---------------|--------|--------------|--------|---------|
| CAD.10 | 30 | 130 | 290 | 1.2 |

SUPPORTS

Multi-functional bodywork support cradle

- Maximum supported weight by CR.S8: 80 kg.
- Foam protections to prevent scratches.
- Ergonomic design, flexible fabric sling moulds to the shape of the panel supported.
- 4 castor wheels (2 castors with brake).
- Floor dimensions.
- Easy to store.
- Foam protection CR.S7PRO.
- Set of 2 slings CR.S7-05.



| | H [mm] | Width l [mm] | L [mm] | ΔΔ [kg] |
|--------------|--------|--------------|--------|---------|
| CR.S7 | 93 | 82 | 90 | 8.0 |



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SUPPORTS

Painters support



- Maximum supported weight by CR.S8: 50 kg.
- Multi-adjustable support for bonnets, doors, etc.
- Modular: 16-point adjustment, adjustable height, 360° rotation, with locking supports.
- With 2 large-size wheels.
- Small floor dimensions
- Dimensions (L. x W. x H.): 130 x 120 x 70 cm.



| | H [mm] | Width l [mm] | L [mm] | ΔΔ [kg] |
|--------------|--------|--------------|--------|---------|
| CR.P1 | 70 | 120 | 130 | 19.0 |

Bodywork component horizontal stand



- Maximum supported weight by CR.S8: 80 kg.
- 3-point support stand with anti-scratch protection.
- Work height: min. 800 mm and max. 1100 mm.
- Small floor dimensions, easy storage.
- Foam protection CR.S7PRO.



| | ΔΔ [kg] |
|--------------|---------|
| CR.P2 | 8.0 |

Surface preparation workstation



- Workstation comprising:
 - 2 sloping upper shelves for storing consumables.
 - 1 drawer 130 mm high with padlock for expensive items, safety items, etc.
 - 1 2-way sloping shelf for ordinary tools.
 - 1 storage area for bulky consumables.
 - Perforated recessed side panels for attaching accessories: 2 bottle-shelves, 1 paper-roll holder, wire supports to hold paint guns, 1 waste bag holder.



| | H [mm] | L [mm] | P [mm] | ΔΔ [kg] |
|----------------|--------|--------|--------|---------|
| CR.T3XL | 1645 | 825 | 546 | 51.0 |

■ **Magnetic holder for painting small bodywork parts**

- For rear view mirror shell, motorbike parts, etc.
- Withstands parts up to 2 kg.
- Length: 255 mm.
- Diameter 1: 10 mm.
- Diameter 2: 58 mm.



| | L [mm] | ΔΔ [g] |
|---------------|--------|--------|
| CR.SMP | 255 | 275 |

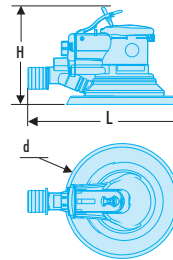
AIR TOOLS - PAINT PREPARATION

■ **Orbital palm sander 150 m - 5 mm orbit**

- Central vacuum exhaust port to allow easy removal of dust if connected to a central vacuum system.
- Easy to access speed regulator just below the trigger.
- Ergonomic trigger for perfect control.
- Productivity increased with low vibration level.
- Composite body is lightweight and insulates against cold.



| | A [mm] | d [mm] | E [mm] | H [mm] | Maximum RPM [mn] | Air Consumption [l/min] | Pad Dimensions [mm] | Sound Pressure DB[A] | Vibration [M/S2] | ΔΔ [kg] |
|---------------|--------|--------|--------|--------|------------------|-------------------------|---------------------|----------------------|------------------|---------|
| V.252F | | 152 | | 115 | 10000 | 212 | 150 | 79.9 (K=3) | 11.86 (K=1.67) | 0,84 |

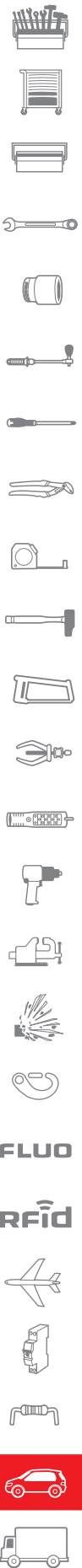
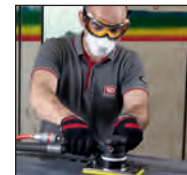
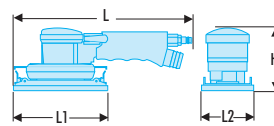


■ **Jitterbug sander - 95 x 170 mm - 8 holes**

- One hand forward reverse "butterfly" trigger
- Two hand design great for work on large and / or vertical surfaces.
- 29 mm central vacuum exhaust port to allow easy removal of dust.
- Easy to access speed regulator.
- Composite body is lightweight and insulates against cold.
- Easy to use clips for abrasive attachment.
- Supplied with 8 hole 95 x 170 mm velcro pad.
- Supplied with pad and 8-hole abrasive perforator.

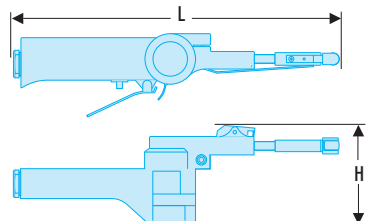


| | H [mm] | l2 [mm] | L [mm] | L1 [mm] | Maximum RPM [mn] | Air Consumption [l/min] | Pad Dimensions [mm] | Sound Pressure DB[A] | Vibration [M/S2] | ΔΔ [kg] |
|---------------|--------|---------|--------|---------|------------------|-------------------------|---------------------|----------------------|------------------|---------|
| V.260F | 120 | | 288 | 170 | 8500 | 115 | 95x170 | 95.2 (K=3) | 53.8 (K=5.82) | 2,1 |



AIR TOOLS - PAINT PREPARATION

▪ Belt sander - 10 x 330 mm



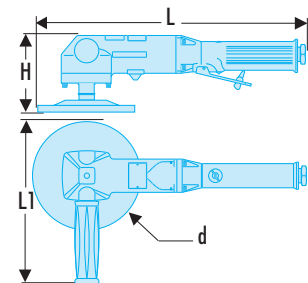
- Handle rotates enabling the operator to always have the best grip.
- Easy and fast changing of belts with the quick change arm.
- Feather teasing trigger for great control.
- Starter pack with tool delivered with 3 abrasives: 2 x P120 and 1 x P80.
- Long and Narrow 10 mm arm to get in the most confined spaces.



| | H [mm] | L [mm] | Maximum RPM [mn] | Air Consumption [l/min] | Sound Pressure DB[A] | Vibration [M/S ²] | ΔΔ [kg] |
|---------------|--------|--------|------------------|-------------------------|----------------------|-------------------------------|---------|
| V.402F | 83 | 283 | 16000 | 110 | 86.1 (K=3) | <2.5 (K=0.63) | 0,8 |

AIR TOOLS - PAINT PREPARATION

▪ Angle sander diameter 178 mm



- Feather teasing trigger for optimum control.
- Speed control screw for use in different applications.
- Second handle for better grip.
- Hardened and ground spiral bevel gears for best durability.
- Delivered with a 178 mm backing pad for efficient sanding on large surfaces.



| | d [mm] | H [mm] | L [mm] | L1 [mm] | Maximum RPM [mn] | Air Consumption [l/min] | Pad Dimensions [mm] | Sound Pressure DB[A] | Vibration [M/S ²] | ΔΔ [kg] |
|---------------|--------|--------|--------|---------|------------------|-------------------------|---------------------|----------------------|-------------------------------|---------|
| V.411F | 178 | 101 | 373 | 229 | 4500 | 110 | 178 | 95 (K=3) | 9.2 (K=1.78) | 2,6 |

SELF-ADJUSTABLE SANDING BLOCK



Work better and faster



SAVE TIME

- Faster operation due to greater surface area coverage.

EASY TO USE

- Easy and accurate shape restoration.



Versatile

- Compatible with 3M® sanding paper, Velcro® paper.



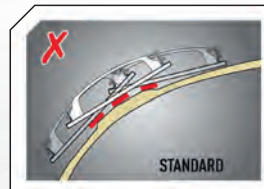
Complete

- 2 sizes adapted to all your needs.
- 200 mm to 400 mm.



Handy

- Can be connected to a vacuum cleaner.
- The vacuum cleaner bit can be changed or removed.



High quality finish

- Perfect finish when working on curved surfaces.



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SELF ADJUSTING SANDING WEDGES

Set of 2 self adjusting sanding wedges



- Wedge for dressing putty repairs in bodywork.
- 1 CR.SBL, 1 CR.SBS.
- Sole with self-gripping grip.
- Peripheral dust vacuuming.
- Legal guarantee.
- Shoe CR.SBL-01.



| | |
|-----------------|---------------------|
| | $\Delta\Delta$ [kg] |
| CR.SB-J2 | 1.1 |

Compact self adjusting sanding wedge



- Wedge for dressing putty repairs in bodywork.
- Sole with self-gripping grip.
- For dressing cuts 70 x 200 mm.
- Peripheral dust vacuuming.
- Removable vacuum tip \varnothing 20 mm.
- Legal guarantee.
- Useful dimensions (L. x W. x H.): 200 x 70 x 90 mm
- Shoe CR.SBS-01.



| | | | | |
|---------------|--------|--------------|--------|--------------------|
| | H [mm] | Width l [mm] | L [mm] | $\Delta\Delta$ [g] |
| CR.SBS | 90 | 70 | 200 | 340 |

Long self adjusting sanding wedge



- Wedge for dressing putty repairs in bodywork.
- Sole with self-gripping grip.
- For dressing cuts 70 x 400 mm.
- Peripheral dust vacuuming.
- Removable vacuum tip \varnothing 20 mm.
- Legal guarantee.
- Useful dimensions (L. x W. x H.): 400 x 70 x 90 mm
- Shoe CR.SBS-01.



| | | | | |
|---------------|--------|--------------|--------|--------------------|
| | H [mm] | Width l [mm] | L [mm] | $\Delta\Delta$ [g] |
| CR.SBL | 120 | 70 | 400 | 660 |

Short sanding wedge



- Sanding wedge for repairs with bodywork putty.
- Sole with self-gripping grip
- For sanding cups 70 x 200 mm.
- Dust extraction.
- Removable extraction bit \varnothing 20 mm.
- Legal warranty.
- Useful dimensions (L x W x H): 200 x 70 x 90 mm.



| | |
|-----------------|---------------------|
| | $\Delta\Delta$ [kg] |
| CR.SBF-S | 0.34 |

WINDSHIELD TOOLS

Windshield replacement kit



- Comprising:
 - D.28A1: Suction cups (2x).
 - D.28A2: Ratchet strap.
 - D.28-3: Removal tool.
 - D.28-4: Pull handle.
 - D.28-5: Braided wire for windshields (18 m).

| | $\Delta\Delta$ [kg] |
|--------------|---------------------|
| D.28B | 3.3 |

Windshield tools

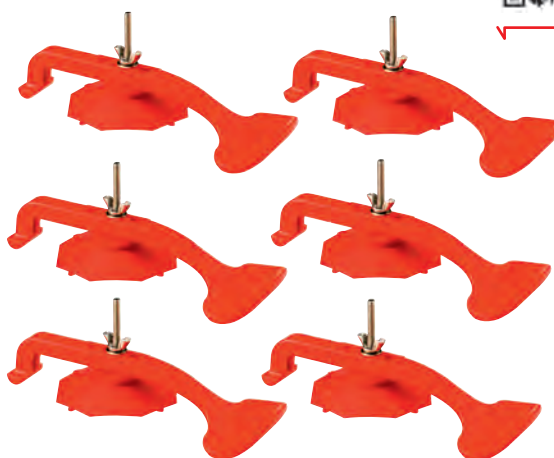


- Set of 3 tools.
- Comprising:
 - D.80-01: Windshield fitting tool.
 - D.80-02: Trim fitting tool.
 - 82H.4: Hexagon key (4 mm).
 - For narrow trim: D.80-02-04.
 - For medium trim: D.80-02-05.
 - For wide trim: D.80-02-06.
 - Supplied in a plastic case.

| | H [mm] | Width l [mm] | L [mm] | $\Delta\Delta$ [g] |
|-------------|--------|--------------|--------|--------------------|
| D.80 | 50 | 135 | 325 | 820 |

Set of 6 suction cups

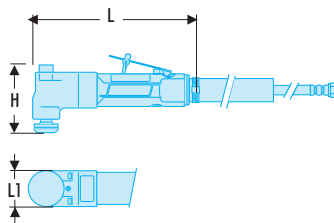
- Secures components while curing.
- Many bodywork applications:
 - Windshield trims.
 - Names and badges.
 - Interior mirrors, etc.
- Excellent suction on painted panels and windows.



| | |
|----------|--------------------|
| | $\Delta\Delta$ [g] |
| DCR.20J6 | 470 |

Windshield cutter

- 20,000 oscillations per min reduces time to replace a windshield.
- Exhaust hose muffles the sound and drives air away from the workplace and the operator.
- Safety trigger protects the user from switching on the tool accidentally.
- Durable aluminium housing.
- Oscillations per minute : 22000.
- Working pressure 6,2 bar.
- Average air consumption 100 l/min.
- Average air consumption 3,4 cfm.
- Air inlet 1/4".
- Minimum hose diameter 10 mm - 3/8".
- Vibration 7,30 m/s²/a.
- Vibration 1,22 m/s²/K.
- Sound pressure 82 dB(A).
- Sound power 93 dB(A).
- Supplied with instructions, without blade.



| | | | | |
|-----------|--------|--------|---------|---------------------|
| | H [mm] | L [mm] | L1 [mm] | $\Delta\Delta$ [kg] |
| CAD.P300F | 85 | 209 | 45 | 1.2 |

Windshield cutter blades CAD.P300F

| | L [mm] | No. |
|-------------|--------|-----|
| CAD.P300F1 | 63 | F1 |
| CAD.P300F2 | 30 | F2 |
| CAD.P300F3 | 36 | F3 |
| CAD.P300F4 | 57 | F4 |
| CAD.P300F5 | 18 | F5 |
| CAD.P300F6 | 35 | F6 |
| CAD.P300F7 | 35 | F7 |
| CAD.P300F8 | 90 | F8 |
| CAD.P300F9 | 90 | F9 |
| CAD.P300F10 | 25 | F10 |
| CAD.P300F11 | 35 | F11 |
| CAD.P300F12 | 45 | F12 |



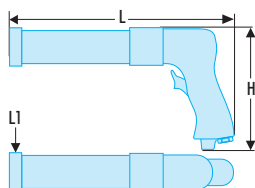
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AIR TOOLS - WINDSHIELDS

Caulking gun - 50 x 215 mm cartridge



- For applying silicon, mastics, adhesives in standard 50 x 215 mm cartridges.
- Easy to use regulator to adjust the actual flow coming out.
- Automatic pressure release halting flow of mastic: When trigger is depressed flow is immediately stopped.
- 70 dB(A) sound level increases operator comfort.
- Robust aluminium housing for high durability.
- Working pressure 6,2 bar.
- Average air consumption 85 l/min.
- Average air consumption 2,9 l/min.
- Air inlet 1/4".
- Minimum hose diameter 10 mm - 3/8".
- Vibration <math><2,50\text{ m/s}^2\text{/a}</math>.
- Vibration 0,51 m/s²/K.
- Sound pressure 97,60 dB(A).
- Sound power 108,60 dB(A).



| | H [mm] | L [mm] | L1 [mm] | $\Delta\Delta$ [kg] |
|--------|--------|--------|---------|---------------------|
| V.801F | 168 | 305 | 62 | 1.1 |

HYDRAULIC EQUIPMENT

10 T hydraulic straightening kit



- Comprising:
 - 1 hand pump (600 cm³).
 - 1 push-jack (154 mm stroke).
 - 1 plier-spreader jack.
 - 4 extension pieces (127 to 711 mm).
 - 7 accessories: flat base, spreading legs, heads (V, chequered, rubber).
- Quick couplers.
- Working pressure: 700 bar.
- Supplied in a wheeled storage case.
- CE.

| | $\Delta\Delta$ [kg] |
|---------|---------------------|
| CR.10TA | 37,100 |

4 T hydraulic straightening kit



- Comprising:
 - 1 hand pump (270 cm³).
 - 1 push-jack (122 mm stroke).
 - 1 plier-spreader jack.
 - 5 extension pieces (115 to 534 mm).
 - 7 accessories: flat base, spreading legs, heads (V, chequered, rubber).
- Quick couplers.
- Working pressure: 700 bar.
- Supplied in a storage case.
- EC standard

| Icon | Model | Weight [kg] |
|------|--------|-------------|
| | CR.4TA | 21,400 |

DIVERS

Rechargeable aerosol

- Examples of use:
 - Cleaning with detergent.
 - Dusting with blower.
 - Degreasing.
 - Releasing with an appropriate liquid.
 - Applications: automotive, industrial maintenance, motorbike, bicycle, marine, DIY, etc.
- CAUTION!
 - Never use the DM.SPRAY in medical and biological applications.
 - Never use the DM.SPRAY in agro-food applications.
 - Never apply DM.SPRAY under a pressure above 5 bars (pressurize with a bicycle pump (5 bars)).
- Fluid content: 50 ~ 350 cc.
- Length: 280 mm.
- Diameter: 65 mm.
- Capacity: 650 ml.
- Spare parts: DM.SPRAY-1: Bottle , DM.SPRAY-2: Cap, DM.SPRAY-3: Nozzle



| Icon | Model | Length [mm] | Weight [g] |
|------|----------|-------------|------------|
| | DM.SPRAY | 280 | 186 |



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HEAVY GOODS VEHICLES - INDUSTRIAL VEHICLES



MOBILE LIFTING EQUIPMENT - HG

1166

- Trolley jacks 1167
- Hydropneumatic jacks 1168
- Bottle jacks 1169
- Heavy load props 1169
- Hoists 1170
- Device removal jack 1171



HYDRAULIC PRESSES - HGV

1172

- Hydraulic presses - HGV 1172



STORAGE - HG

1174

- Roller cabinets and mobile tables 1174
- JET+ roller cabinets 1176



RATCHETS - SOCKETS - HG

1178

- Ratchets - Sockets - HG 1178



TORQUE CONTROL - HG

1179

- Torque control - HG 1179



PNEUMATIC TOOLING - HG

1181

- Pneumatic tooling - HG 1181



PULLERS - HG

1182

- Pullers - HG 1182



CYLINDER HEAD - PISTONS - VALVES

1183

- Cylinder head - pistons - valves 1183



LUBRICATION - FILTRATION - HG

1184

- Automatic oil-Filter wrench 1184



BRAKES - HG

1185

- Inspection Drum 1185
- Drum 1186



CLUTCH CENTRING - HG

1186



WHEEL - STEERING - TRANSMISSION - HG

1186

- Wheels 1186
- Steering ball joints 1187



ELECTRICITY - HG

1188

- Electricity - HG 1188



SERVICE TRUCKS INDUSTRIAL VEHICLES



Demonstrations, Technical information, Online updates and Automated chest inventories

You can also make an appointment with a FACOM distributor to produce an inventory of your tooling base (roller cabinets, chests, work benches...).

Advice, demonstration.

- For a presentation, demonstration, call our sales department or local dealer to speak to a FACOM adviser.



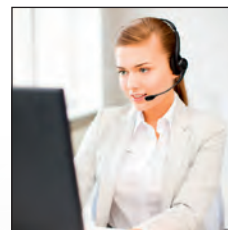
Internet.

- Access the entire up-to-date Facom product range in one click, download the whole catalogue, specific sections, and much, much more on www.facom.com.



Technical information.

- For information on a product, spare part, etc...



Inventory of boxes.

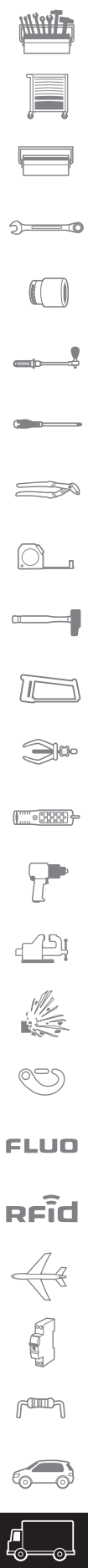
- Save time.
 - Optimise your expenses.
 - Control your tooling budget.
 - Individual lists and box harmonisation help certifying your workshop to ISO.
1. During the first inventory, we define, for each worker (mechanical, bodywork, electricity, 24/24 service...), the computerised list of tools contained in his box.
 2. Every year, we produce an annual inventory against the original list. This allows to manage the equipment stock precisely, keep the right equipment and empower all persons. You complete your workshop equipment effectively. (Service available only in mainland France).

TROLLEY JACKS

"HEAVY DUTY" MOBILE LIFTING ROLLER JACKS

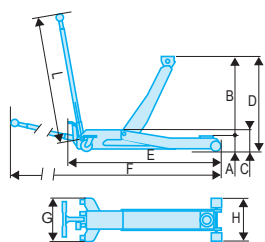
Characteristics common to "heavy duty" hydraulic jacks

- Fast approach pedal.
- "Dead man" device.
- Load descent rate regulation.
- Conformity with EC Directive on machinery 2006 and EN 1494.



5 t rolling jack

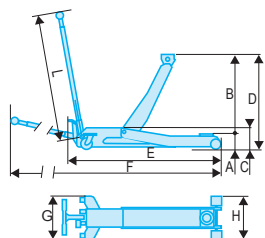
- Load capacity: 5 t.
- Maximum lifting height: 685 mm
- Minimum height under body: 150 mm.
- Fast foot lifting.
- Handle adjustable in 3 positions 90, 135, 180 degrees.
- Overload valve.
- CE Compliance Standard EN1494+A1.



| | A [mm] | B [mm] | B1 [mm] | C [mm] | D [mm] | H [mm] | L [mm] | Oil Capacity [cm ³] | Tonnes [t] | ΔΔ [kg] |
|---------------|--------|--------|---------|--------|--------|--------|--------|---------------------------------|------------|---------|
| DL.PL5 | 150 | 685 | 1153 | 150 | 685 | 1380 | 1506 | 540 | 5 | 89 |

10 t rolling jack

- Load capacity: 10 t.
- Maximum lifting height: 525 mm
- Minimum height under body: 160 mm.
- Fast foot lifting.
- Handle adjustable in 3 positions 90, 135, 180 degrees.
- Overload valve.
- CE Compliance Standard EN1494+A1.



| | A [mm] | B [mm] | B1 [mm] | C [mm] | D [mm] | L [mm] | Oil Capacity [cm ³] | Tonnes [t] | ΔΔ [kg] |
|-----------------|--------|--------|---------|--------|--------|--------|---------------------------------|------------|---------|
| DL.PL10A | 160 | 525 | 1153 | 333 | 525 | 1637 | 1050 | 10 | 129 |

FLUO

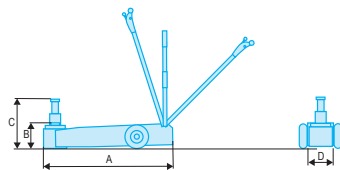
RFid

HYDROPNEUMATIC JACKS

"HEAVY DUTY" MOBILE LIFTING ROLLER JACKS**Characteristics common to "heavy duty" hydraulic jacks**

- Fast approach pedal.
- "Dead man" device.
- Load descent rate regulation.
- Conformity with EC Directive on machinery 2006 and EN1494-ASME-PASE.

15-25-35T hydropneumatic jack

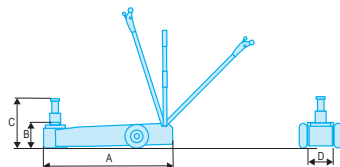


- Heavy duty construction.
- Long folding handle.
- 2 large wheels for better handling.
- Triple stage: 70 // 55 // 85.
- Air control on handle.
- Pivotal handle, 3 positions.
- Includes 2 adapters to increase lifting height.
- Compliant with EC standard EN 1494-ASME-PASE.



| | A [mm] | B [mm] | C [mm] | D [mm] | Oil Capacity [cm ³] | Tonnes [t] | ΔΔ [kg] |
|----------------|--------|--------|--------|--------|---------------------------------|--------------|---------|
| DL.1050 | 686 | 151 | 361 | 333 | 1200 | 10 - 25 - 50 | 65 |

15-30T hydropneumatic jack



- Heavy duty construction.
- Long foldable handle.
- 2 large wheels for better handling.
- Double stage: 70 // 75.
- Air control on handle.
- Pivotal handle, 3 positions.
- Includes 2 adapters to increase lifting height and avoid contact with the chassis.
- Compliant with EC standard EN 1494-ASME-PASE.



| | A [mm] | B [mm] | C [mm] | D [mm] | Oil Capacity [cm ³] | Tonnes [t] | ΔΔ [kg] |
|-----------------|--------|--------|--------|--------|---------------------------------|------------|---------|
| DL.1530C | 538 | 151 | 296 | 289 | 1500 | 15 - 30 | 48 |

HOISTS

WORKSHOP CRANES



Exclusive performance:

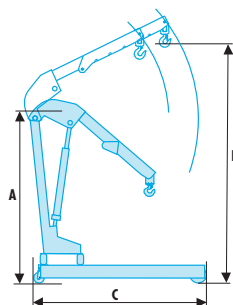
- Easy boom length adjustment without tool.
- Load lowering with one millimetre accuracy with the high-precision control.
- Rotating jack at 270°: controls boom rising and lowering by the back or side of the crane.



■ 1 t europalette workshop crane



- 1 t folding workshop crane compatible with EU pallet.
- Tool-free jib extension.
- Easy use, pivoting rear wheels.
- Capacity: 1 t.
- 4 positions: 500, 670, 830.1000 kg.
- Max length from arm to hook: 1360 mm
- Width 838 mm, inside the forks.
- Floor dimensions: 1527x992 mm.
- Hook height: 128-2128 mm.
- Jack fitted with overload valve.
- CE Compliance Standard EN1494+A1.

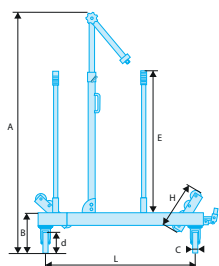


| | A [mm] | B [mm] | C [mm] | Tonnes [t] | ΔΔ [kg] |
|-----------------|--------|--------|--------|------------|---------|
| DL.500EU | 1613 | 2128 | 1527 | 1 | 86 |

DEVICE REMOVAL JACK

Hydraulic tractor wheel lift

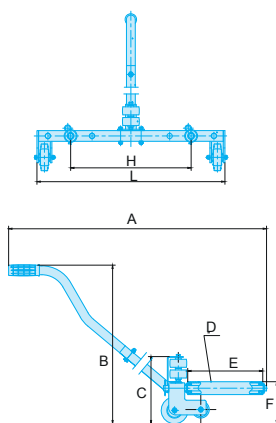
- Load capacity: 1.5 t.
- Easy and secured removing - fitting of tractor wheels
- 6 orientable rollers for easy wheel positioning upon refitting.
- Wheel diameter: 1350 to 2150 mm.
- Max width wheels: 800 mm.
- Adjustable width: 1200-1970 mm.
- Floor dimensions: 1310 x 1020 mm.
- 2 wheels with brakes.
- CE Compliance Standard EN1494+A1.



| DL.1500 | A [mm] | B [mm] | C [mm] | d [mm] | E [mm] | H [mm] | L [mm] | Tonnes [t] | ΔΔ [kg] |
|---------|-----------|--------|--------|--------|--------|--------|---------|------------|---------|
| DL.1500 | 1350-2150 | 280 | 50 | 150 | 1000 | 76 | 210-845 | 1,5 | 125 |

HGV, bus' wheel lift

- Load capacity: 250 kg.
- For easy and secured removal - refitting of wheels on buses, HGVs, forklift trucks.
- 2 rollers adjustable in width from 6.5" to 22.5".
- 2 rollers length: 280 mm.



| DL.275 | A [mm] | B [mm] | C [mm] | d [mm] | E [mm] | H [mm] | L [mm] | Tonnes [t] | ΔΔ [kg] |
|--------|--------|--------|--------|--------|--------|--------|--------|------------|---------|
| DL.275 | 1160 | 758 | 251 | | 280 | 450 | 702 | 1,5 | 12,5 |

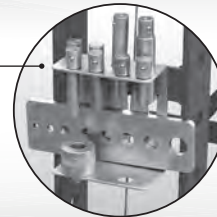


HYDRAULIC PRESSES - HGV

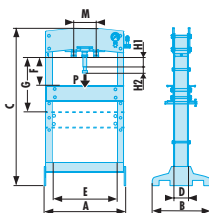
HYDRAULIC PRESSES

30t and 50t Workshop presses

- Table raised by a single operator using the integral winch (model 50t).
- Integral pusher support.
- Jack mobile laterally.
- Supplied assembled with a pair of Vees.
- Piston with automatic return spring.
- Base allowing to move it using a pallet jack, ground anchorage.
- CE.



15 t hydraulic bench press

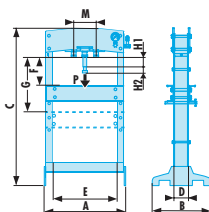


- Lateral adjustable jack.
- Eye-level pressure gauge.
- Piston with automatic return.
- Piston travel: 160 mm.
- Supplied fitted with pair of reversible V and set of pushers.
- Floor dimensions: 700 x 540 mm.
- CE compliance Standard EN1494+A1.



| | A [mm] | B [mm] | C [mm] | D [mm] | E [mm] | Tonnes [t] | $\Delta\Delta$ [kg] |
|-----------------|--------|--------|--------|--------|--------|------------|---------------------|
| W.415WBA | 700 | 540 | 882 | 965 | 500 | 15 | 75 |

20 t hydraulic press



- Double pump for fast approach.
- Foot and hand control.
- Eye-level pressure gauge.
- Piston with automatic return.
- Piston travel: 185 mm.
- Supplied with pair of reversible V and set of pushers.
- Floor dimensions: 730 x 560 mm.
- CE compliance Standard EN1494+A1.

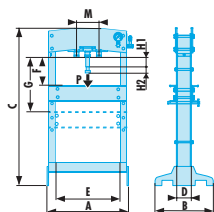


| | A [mm] | B [mm] | C [mm] | D [mm] | E [mm] | Tonnes [t] | $\Delta\Delta$ [kg] |
|--------------|--------|--------|--------|--------|--------|------------|---------------------|
| W.420 | 730 | 560 | 1519 | 1626 | 510 | 20 | 112 |

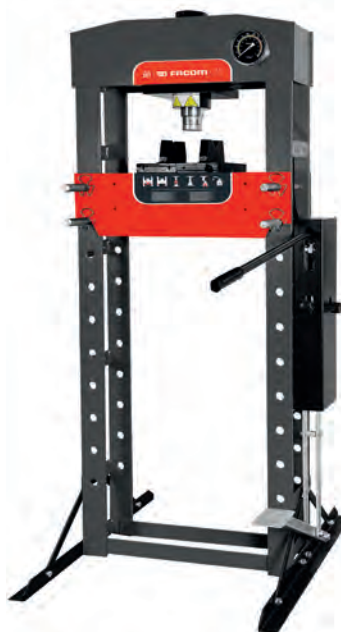
HYDRAULIC PRESSES - HGV

30 t hydraulic press

- Double pump for fast approach.
- Foot and hand control.
- Eye-level pressure gauge.
- Piston with automatic return.
- Piston travel: 150 mm.
- Supplied with pair of reversible V and set of pushers.
- Floor dimensions: 795 x 700 mm.
- CE compliance Standard EN1494+A1.

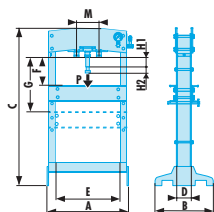


| W.430 | A [mm] | B [mm] | C [mm] | D [mm] | E [mm] | Tonnes [t] | $\Delta\Delta$ [kg] |
|-------|--------|--------|--------|--------|--------|------------|---------------------|
| W.430 | 795 | 700 | 1773 | 1830 | 535 | 30 | 167 |



50 t hydraulic press

- Double pump for fast approach.
- Foot and hand control.
- Eye-level pressure gauge.
- Piston with automatic return.
- Piston travel: 200 mm.
- Supplied with pair of reversible V and set of pushers.
- Table adjustable by winch.
- Floor dimensions: 730 x 560 mm.
- CE compliance Standard EN1494+A1.



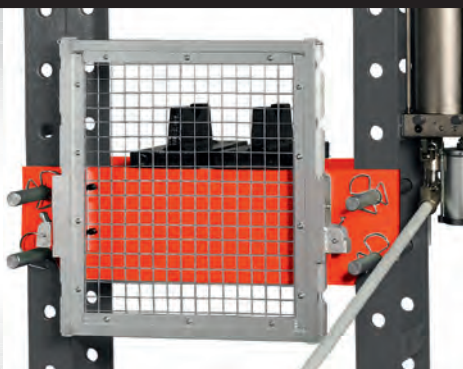
| W.450 | A [mm] | B [mm] | C [mm] | d [mm] | E [mm] | Tonnes [t] | $\Delta\Delta$ [kg] |
|-------|--------|--------|--------|--------|--------|------------|---------------------|
| W.450 | 1030 | 800 | 1831 | 1877 | 730 | 50 | 300 |



PROTECTION FOR WORKSHOP PRESSES

FLEXIBILITY

- Several height positions of the protection according to the part's size. Allows to position the protection flush with the part for large parts.
- Adapts to 20t, 30t and 50 t workshop presses.



W.PROTECT20 for press 20 t W.420
 W.PROTECT30 for press 30 t W.430
 W.PROTECT50 for press 50 t W.450

ROLLER CABINETS AND MOBILE TABLES

HEAVY LOAD MOBILE WORKBENCHES

**Max resistance:**

- Acceptable load 500 kg - Extremely strong welded steel tubular structure.
- Upper top and lower shelf in 20/10th steel.

Multi function:

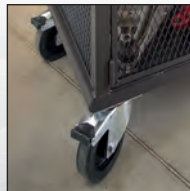
- Laying plan (for 600 x 800 mm pallet), Worktop (locked wheels) and Transport.

**Max manoeuvrability:**

- 4 large wheels: 2 castors with brake and 2 fixed wheels, Ø 160 mm, rubber tread, for easy manoeuvrability even with heavy load.
- Sturdy and comfortable manoeuvring handle.

Max safety:

- Upper worktop with retaining lips on 3 sides (including 2 folding), 25 mm high preventing objects/tools from falling while moving.
- Rounded base providing ankle protection.



Heavy-duty roller table



- Ideal to deposit and transport heavy loads.
 - Max strength and handling:
 - Load acceptable 500 kg - extreme resistance mechanically welded steel tubular structure.
 - Upper surface and lower shelf in steel 20/10th.
 - Handling:
 - 4 large size wheels: 2 castors with brake and 2 fixed rollers, Ø 160 mm, rubber tire, for easy handling of the trolley, even when heavily loaded.
 - Robust and comfortable handle.
 - Multi function:
 - Laying surface (for pallet 600x800 mm), worktop (locked wheels) and transport.
 - Max safety:
 - Worktop with edges on 3 sides (including 2 retractible), height 25 mm to avoid prevent objects/tools from falling during transport.
 - Lower panel rounded to protect ankles.
 - Colours: grey ELIAN.
 - Dimensions: L.1092 x D.617 x H.903 mm.
- Accessories:
- Additional shelf in galvanised metal sheet thickness 2 mm with anti-fall edges dimensions: L.960 x D.546 x H.20mm / 9kg.

| | H [mm] | L [mm] | W [mm] | ΔΔ [kg] |
|-------------|--------|--------|--------|---------|
| 2702 | 903 | 1092 | 617 | 9 |

ROLLER CABINETS AND MOBILE TABLES

Additional shelf

- In galvanised metal sheet thickness 2 mm with anti-fall edges.



| | H [mm] | L [mm] | W [mm] | ΔΔ [kg] |
|-----------------|--------|--------|--------|---------|
| 2702.TAB | 20 | 960 | 546 | 9.0 |

Heavy-duty trolley

- Ideal for secured transport or storage of tools and components.
 - Max strength and handling:
 - Load acceptable 500 kg - extreme resistance mechanically welded steel tubular structure.
 - Upper surface and lower shelf in steel 20/10th.
 - Handling:
 - 4 large size wheels: 2 castors with brake and 2 fixed rollers, Ø 160 mm, rubber tire, for easy handling of the trolley, even when heavily loaded.
 - Robust and comfortable handle.
 - Multi function:
 - Laying surface (for pallet 600x800 mm), worktop (locked wheels) and transport.
 - Max safety:
 - Worktop with edges on 3 sides (including 2 retractible), height 25 mm to avoid prevent objects/tools from falling during transport.
 - Lower panel rounded to protect ankles.
 - Steel grid sides. (deployed metal 40*23 thickness 1.5mm).
 - Padlock clasp (padlock not supplied).
 - Acceptable load 500 kg.
 - Extreme resistance steel tubular structure.
 - Colours: grey ELIAN.
 - Dimensions: L.1092 x D.617 x H.903 mm.
- Accessories:
- Additional shelf in galvanised metal sheet thickness 2 mm with anti-fall edges.
 - L.960 x D.546 x H.20mm / 9kg.
 - Weight: 54 kg.



| | H [mm] | L [mm] | W [mm] | ΔΔ [kg] |
|-------------|--------|--------|--------|---------|
| 2703 | 903 | 1092 | 617 | 54.0 |



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JET+ ROLLER CABINETS

M5 ROLLER CABINET

Extra wide worktop, unequalled storage capacity, exceptional handling.

JET+

- + **Extra-wide drawers - 5 modules per drawer.**
- + **25 to 45 modules** distributed in 60 and 130 mm high drawers (200 and 270 mm drawers can also be fitted with modules).
- + **235 to 320 kg** total acceptable load in the drawers according to drawer composition.
- + **250 to 255 litres** effective volume according to drawer composition.
- + **0.40 m²** effective working surface (440 X 876 mm).



Technical data

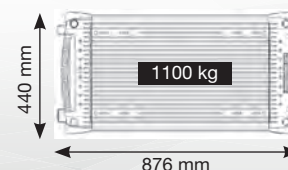
- Overall dimensions (wheels and worktop included): L.1154 x D.546 x H.1000 mm.
- Effective drawer dimensions: L.948 x D.421 x H.60 / 130 / 200 / 270 mm.

Load per drawer for M5 versions

- Drawer 60 mm high: 35 kg
- Drawer 130 mm high: 40 kg
- Drawer 200 mm high: 50 kg
- Drawer 270 mm high: 60 kg

Effective drawer volume in litres on M5 version

- Drawer 60 mm high: 25 L
- Drawer 130 mm high: 50 L
- Drawer 200 mm high: 80 L
- Drawer 270 mm high: 110 L



JET+ 6-drawer roller cabinets - 5 modules per drawer



- 6 drawers = 25 modules distributed in the 60 and 130 mm drawers:
 - 3 drawer 60 mm wall = 15 modules.
 - 2 drawer 130 mm wall = 10 modules.
 - 1 drawer 200 mm wall.
- The 200 and 270 mm drawers can also be fitted with modules.
- Supplied with 12 partitions for 60 mm drawers and 4 partitions for 130 mm drawers.
- Total load in the drawers: 235 kg.
- Wall storage capacity: 255 litres.
- Drawer useful size: L.948 x D.421 x H.60 / 130 / 200 mm.
- Furnished with 8 separators for drawers of 60 mm and 8 separators for drawer of 130 mm.



| | H [mm] | L [mm] | P [mm] | Colour | ΔΔ [kg] |
|-----------------|--------|--------|--------|------------|---------|
| JET.6M5 | 1000 | 1154 | 546 | Rouge 3020 | 104.5 |
| JET.6GM5 | 1000 | 1154 | 546 | Noir 9004 | 104.5 |

JET+ ROLLER CABINETS


Jet+ 6-drawer mobile workbenches - 3 modules per drawer

- 6 drawers = 15 modules distributed in the 60 and 130 mm drawers:
 - 4 drawers 60 mm high = 12 modules.
 - 1 drawer 130 mm high = 3 modules.
 - 1 drawer 270 mm high.
- The 200 and 270 mm drawers can also be fitted with modules.
- Supplied with 6 partitions for 60 mm drawers and 2 partitions for 130 mm drawers.
- Total load in the drawers: 140 kg.
- High storage capacity drawers: 155 litres.
- 1 full-length closed compartment for storing long tools:
 - Door with key lock.
 - Identical key for the drawers and the compartment.
- Supplied with the plastic carrier tray.
- For the wood top version, just add wood top JET.A14M5.
- Compatible with the JET+ and JET.XL range of accessories.
- 4 very high performance wheels 160 mm diameter - 2 castors (including 2 with brakes) and 2 fixed.
- Drawer useful size: L.569 x D.421 x H.60/130/200 mm.
- Compartment dimensions: L.378 x D.430 x H.679 mm (passage width with door open 310 mm).



| ED | H [mm] | L [mm] | W [mm] | Colour | ΔΔ [kg] |
|-----------|--------|--------|--------|------------|---------|
| JET.T6M3 | 1000 | 1154 | 546 | Red 3020 | 100.0 |
| JET.T6GM3 | 1000 | 1154 | 546 | Black 9004 | 100.0 |

**FIND THE COMPLETE
RANGE ROLLER
CABINET JET +**



**PAGE
54**



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RATCHETS - SOCKETS - HG

3/4" 6-point sockets set 19 - 55 mm



Including:

- 1 K.152 3/4" 72-teeth square drive, length: 505 mm.
 - 13 12-point OGV® sockets 3/4" square drive: 19 - 21 - 22 - 24 - 27 - 30 - 32 - 34 - 36 - 41 - 46 - 50 - 55 mm.
 - 2 3/4" extensions:
 - K.210B: length 200 mm.
 - K.215B: length 400 mm.
 - 1 K.240A 3/4" square drive universal joint, length: 105 mm.
 - Supplied in plastic case BV.COMPO-K, compatible with drawers of JET+ rolling cabinets and JETLINE units.
- Dimensions (L. x D. x H.): 565 x 412 x 105 mm.

| | |
|--------------|---------------------|
| | $\Delta\Delta$ [kg] |
| K.500 | 13.7 |

3/4" 12-point sockets set 19 - 55 mm

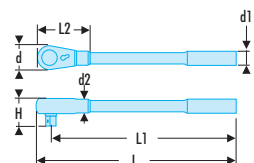


Including:

- 1 K.152 3/4" 72-teeth square drive, length: 505 mm.
 - 13 6-point OGV® sockets 3/4" square drive, KHB or KB: 19 - 21 - 22 - 24 - 27 - 30 - 32 - 34 - 36 - 41 - 46 - 50 - 55 mm.
 - 2 3/4" extensions:
 - K.210B: length 200 mm.
 - K.215B: length 400 mm.
 - 1 K.240A 3/4" square drive universal joint, length: 105 mm.
 - Supplied in plastic case BV.COMPO-K, compatible with drawers of JET+ rolling cabinets and JETLINE units.
- Dimensions (L. x D. x H.): 565 x 412 x 105 mm.

| | |
|--------------|---------------------|
| | $\Delta\Delta$ [kg] |
| K.501 | 13.7 |

3/4" drive "heavy duty" ratchet



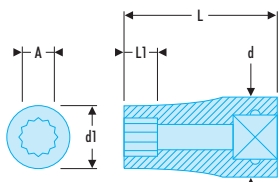
NF ISO 3315, ISO 3315, DIN 3122, ASME B107.10

- Suitable for outdoor working:
 - Sturdy mechanism protected against dirt.
 - Recessed reversing switch.
 - 9° increments.
 - 40 tooth mechanism.
 - Removable handle K.149M.
- Plunger lock.
- Finish: mat chrome.

| | | | | | | | |
|--------------|--------|---------|---------|--------|--------|---------|---------------------|
| | d [mm] | d1 [mm] | d2 [mm] | H [mm] | L [mm] | L1 [mm] | $\Delta\Delta$ [kg] |
| K.149 | 65,5 | 25 | 32 | 62 | 510 | 475 | 2.9 |

RATCHETS - SOCKETS - HG

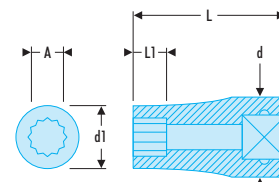
3/4" hexagonal socket 43 mm "IVECO HGV's"



- Examples of use: IVECO HGV's hub removal.
- OGV® profile.
- Safe locking with ratchets and accessories fitted with plungers.
- Fitted with quick release button.
- Finish: chromed.

| Part No. | A [mm] | d [mm] | d1 [mm] | L [mm] | L1 [mm] | Ø [mm] | ΔΔ [g] |
|---------------|--------|--------|---------|--------|---------|--------|--------|
| K.43HB | 43 | 40 | 60,7 | 66,9 | 27 | 6 | 560 |

1" 12-point sockets 65 mm



- Example of use:
 - IVECO: disc bearing nut.
 - Mercedes: transfer or transmission box gears.
- Thinner, lighter body.
- Safe locking with ratchets and accessories fitted with plungers.
- Push-button release.
- Finish: chromed.

| Part No. | A [mm] | d [mm] | d1 [mm] | L [mm] | L1 [mm] | 12 [mm] | ΔΔ [kg] |
|--------------|--------|--------|---------|--------|---------|---------|---------|
| M.65B | 65 | 58,3 | 85,4 | 92 | 42 | 12 | 1.7 |

TORQUE CONTROL - HG

Click wrenches with removable ratchet



- Factory accuracy: ± 4%.
- Reliability of mechanism: 50 000 cycles (wrenches up to 200 N.m).
- Can be used with Ø 30 mm accessories.
- One-way wrenches usable for unscrewing by reversing the bits.
- Numbered wrench supplied with ISO 6789 calibration certificate.
- Supplied in plastic box with ratchet.

| Part No. | L [mm] | Attachement | Capacity [N.m] | Clé | Cliquets | Graduation [N.m] | ΔΔ [kg] |
|-------------------|--------|-------------|----------------|-------------|----------|------------------|---------|
| K.306A1000 | 1280 | Ø 30 mm | 200 - 1000 | K.306-1000D | K.151A | 4,00 | 5.9 |



TORQUE CONTROL - HG

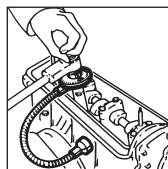
■ Torque and angle adapter



- Accuracy:
 - Torque: $\pm 3\%$ between 20% and 100% wrench capacity.
 - Angle: $\pm 2^\circ$.
- Measuring mode: peak or follower.
- Cycle counter.
- Locking keypad (the operator has access only to program choices and result memorising).
- Measuring unit: N.m, ft.lb, ln.lb, kg.cm, deg.
- Presetting possible of 9 torque and/or angle values.
- Memory: 50 values.
- Supplied in plastic case with calibration certificate.

| ➤ | L [mm] | Capacity [N.m] | Resolution | $\Delta\Delta$ [g] |
|-------------------|--------|----------------|------------|--------------------|
| E.506-340S | 80 | 17 - 340 | 0,1 | 268 |

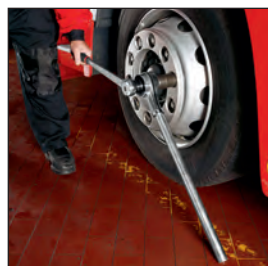
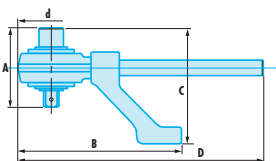
■ DM - Angular tightening gauges



- Magnetic attached angle gauge for cylinder heads.
- Allows accurate measurement of angle following tightening with a torque wrench.
- Flat drum with top reading.
- Drum positioning on the value recommended by the manufacturer, then tightening to zero.
- Graduations: 2° .
- Male and female square drive.
- Fixed point by flexible with magnet.

| ➤ | d [mm] | L [mm] | Square ["] | $\Delta\Delta$ [g] |
|---------------|--------|--------|------------|--------------------|
| DM.360 | 63 | 410 | 1/2 | 350 |
| DM.370 | 73 | 430 | 3/4 | 550 |

■ MC.B Torque Multiplier



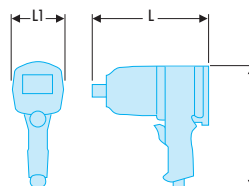
- Compact and lightweight models suited to maintenance work on vans, trucks.
- Multiplication ratio: 5:1.
- Supplied with 2 reaction arms (straight and angled) and one spare drive square.

| ➤ | A [mm] | B [mm] | C [mm] | d [mm] | L [mm] | Capacity Maxi [N.m] | F Square | Male Square | $\Delta\Delta$ [kg] |
|----------------|--------|--------|--------|--------|--------|---------------------|----------|-------------|---------------------|
| MC.130B | 126 | 263 | 180 | 106 | 396 | 1300 | 3/4 | 1/2 | 3.8 |
| MC.270B | 128 | 263 | 186 | 106 | 396 | 2700 | 1 | 1/2 | 3.8 |

PNEUMATIC TOOLING - HG

3/4" titanium impact wrench

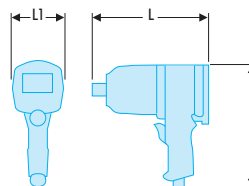
- Lightweight titanium housing for maximum durability.
- Feather throttle for maximum operator control.
- Titanium exhaust deflector & muffler.
- Over molded comfort grip.
- One hand power & reverse adjustment.
- Innovative motor construction increases durability.



| FACOM | H [mm] | L [mm] | L1 [mm] | ΔΔ [kg] |
|----------|--------|--------|---------|---------|
| NK.3000F | 227 | 227 | 97 | 3,8 |

3/4" composite impact wrench

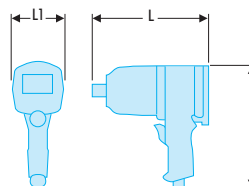
- Durable twin hammer mechanism encased in a strong aluminium housing.
- One switch integrating regulation and forward reverse.
- Insulating and lightweight durable composite housing.
- Feather teasing trigger for optimal speed regulation.
- Specific short design to get into confined spaces.
- Socket ring retainer for safety.



| FACOM | H [mm] | L [mm] | L1 [mm] | ΔΔ [kg] |
|-----------|--------|--------|---------|---------|
| NK.2000F2 | 213 | 221 | 86 | 3,9 |

3/4" aluminum impact wrench

- Durable twin hammer mechanism encased in a strong aluminium housing.
- One hand forward reverse switch with integrated regulator with 6 positions.
- Feather teasing trigger for optimal speed regulation.
- Socket ring retainer for safety.



| FACOM | H [mm] | L [mm] | L1 [mm] | ΔΔ [kg] |
|-----------|--------|--------|---------|---------|
| NK.1000F2 | 233 | 222 | 93 | 5,6 |



PULLERS - HG

Hydraulic puller 10 T for outside puller - 3 sets of legs



- Versatile: takes 2 or 3 legs.
- Safety: power is limited hydraulically to 10 tonnes.
No risk of breakage.
- Comprising:
 - A 10-tonne hydraulic jack (100 kN) U.312-01 + and guide tip U.312-02 + set of 2 extensions U.312-03.
 - A body with 2 or 3 legs U.312-04 + centering screw U.312-04-01 + set of 3 screws/nuts U.312-04-02.
 - 3 sets of legs: U.312G160, U.312G210 and U.312G260.
- Supplied in plastic case U.312VAL.



| | H [mm] | W [mm] | L [mm] | $\Delta\Delta$ [kg] |
|-----------------|--------|--------|--------|---------------------|
| U.312HJ3 | 105 | 412 | 565 | 13.2 |

Hydraulic puller 10 T for outside puller - 4 sets of legs



- Versatile: takes 2 or 3 legs.
- Safety: power is limited hydraulically to 10 tonnes.
No risk of breakage.
- Comprising:
 - A 10-tonne hydraulic jack (100 kN) U.312-01 + and guide tip U.312-02 + set of 2 extensions U.312-03.
 - A body with 2 or 3 legs U.312-04 + centering screw U.312-04-01 + set of 3 screws/nuts U.312-04-02.
 - 4 sets of legs: U.312G110, U.312G160, U.312G210 and U.312G260.
- Supplied in plastic case U.312VAL.



| | H [mm] | W [mm] | L [mm] | $\Delta\Delta$ [kg] |
|-----------------|--------|--------|--------|---------------------|
| U.312HJ4 | 105 | 412 | 565 | 14.4 |

CYLINDER HEAD - PISTONS - VALVES

■ Piston ring compressors 100 - 160 mm

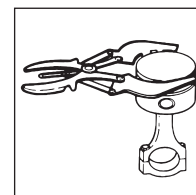
- For easy insertion of piston into cylinder bore and even compression over full ring length.
- Ratchet mechanism.
- Complete with key (length: 6 mm).



|  | d [mm] | L [mm] | ΔΔ [g] |
|---|-----------|--------|--------|
| 750.KB | 100...160 | 80 | 300 |

■ Piston ring pliers

- Even distribution of the load around the piston ring.
- Fast.



|  | d [mm] | W [mm] | L [mm] | ΔΔ [g] |
|---|----------|--------|--------|--------|
| 751.K | 90...150 | 255 | 255 | 330 |

■ Renault and Volvo Trucks OIL filter WRENCH

- For filters in confined spaces.
- Filters situated in compact clusters make using a strap or chain wrench very difficult, even impossible.
- Diameter 106 mm.
- 15-point.
- 1/2" drive bit or 36 mm - 6-point socket.



|  | ΔΔ [g] |
|---|--------|
| DP.106-15 | 450 |

PULLERS

Complete range of pullers see section 12 p. 624.

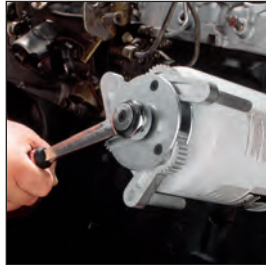


AUTOMATIC OIL-FILTER WRENCH

Self-gripping oil-filter wrench for HGV's



- For HGV's and farming vehicles.
- 1/2" drive bit.
- For oil filters diam.: 95 --> 165 mm.



| | |
|---|---------------------|
|  | $\Delta\Delta$ [kg] |
| U.151PL | 1,345 |

Automatic oil-filter wrench for HGV's

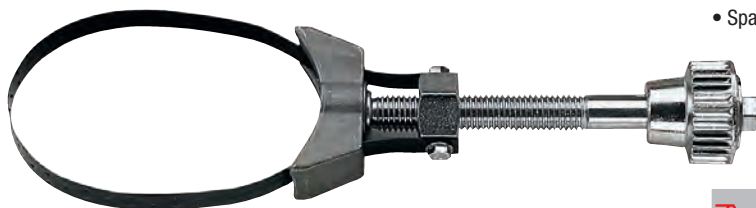


- For HGV's and farming vehicles.
- For filters diam.: 106 --> 145 mm.
- Ratchet effect increment: 5°.
- Optimised automatic tightening.
- Spare strap U.48-PL2 for oil filter wrench.



| | |
|---|--------------------|
|  | $\Delta\Delta$ [g] |
| U.48PL | 290 |

Adjustable oil-filter wrench for HGV's



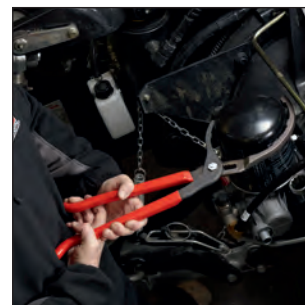
- Automatic oil filter wrench for HGV's and farming vehicles.
- For filters diam.: 105 --> 145 mm.
- Max length: 300 mm.
- Spare strap U.46APL2 for oil filter wrench.

| | |
|---|--------------------|
|  | $\Delta\Delta$ [g] |
| U.46PL | 350 |

AUTOMATIC OIL-FILTER WRENCH

XL filter pliers

- Forged pliers.
- Capacity: diameter 95 to 178 mm .
- Fast and precise adjustment, 8-position slip-joint.
- Return spring.
- "triangle" teeth for enhanced filter tightening.
- Main applications industrial vehicles, buses, nautical (desiccator filters, oil filters, plugs).



|  | L [mm] | ΔΔ [kg] |
|---|--------|---------|
| 170.FIL | 500 | 1.5 |

Hub truck oil pan

- Shaped to follow the wheel.
- 2.6 l capacity.
- Additional hole on the upper part to drain the oil from the nuts.
- Two magnets for improved stability.



|  | ΔΔ [g] |
|---|--------|
| D.HUP | 738 |

BRAKES - HG

INSPECTION

Disc brake vernier caliper

- Vernier caliper for checking the thickness of brake discs.
- Accurate, error-free reading.
- Measurements can be taken with wheel in place (if no protective bodywork).
- Can quickly demonstrate to customers the need for changing brakes.
- Capacity 0 to 50 mm, outer thickness measurement of the disc brakes of cars and LCV's.
- Nose length: 50 mm.
- 0.1 mm reading increments.
- Mechanical memory device.
- Supplied in a reinforced fabric case with serial number for traceability in ISO certified workshops.

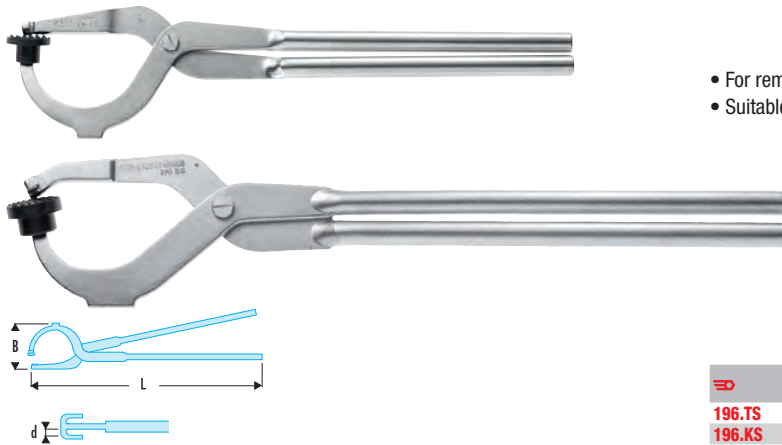


|  | ΔΔ [g] |
|---|--------|
| DF.18-01 | 250 |



DRUM

196 Brake-spring pliers



- For removing shoe springs.
- Suitable for right-handed and left-handed working.



| | B [mm] | d [mm] | L [mm] | $\Delta\Delta$ [kg] |
|---------------|--------|--------|--------|---------------------|
| 196.TS | 83 | 3 | 350 | 0.580 |
| 196.KS | 100 | 5 | 485 | 1.2 |

HEAVY GOODS - INDUSTRIAL VEHICLES

HGV clutch centring set



Includes:

- 4 cylinders diameter 20 -25 -27 -30 mm for bearings.
References DM.30PL-20/-25/-27/-30.
- 2 expandable positioning tools:
 - DM.30PL-3645 capacity 36 to 45 mm.
 - DM.30PL-4252 capacity 42 to 52 mm.
- Rubber rings reference DM.30PL-01.
- Set supplied in case BP.112 with Tray PL.490.

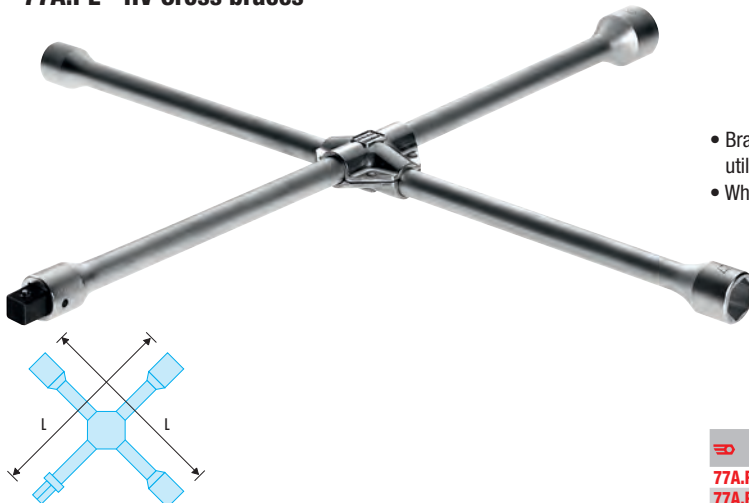


| | $\Delta\Delta$ [kg] |
|----------------|---------------------|
| DM.30PL | 3.260 |

WHEEL - STEERING - TRANSMISSION - HG

WHEELS

77A.PL - HV Cross braces



- Braces used to remove nuts from wheels of light, utility and heavy vehicles.
- When the brace has a drive bit, it is interchangeable.



| | d [mm] | L [mm] | Square ["] | $\Delta\Delta$ [kg] |
|----------------|-------------------|--------|------------|---------------------|
| 77A.PL1 | 24 - 27 - 30 - 32 | 700 | - | 4.7 |
| 77A.PL2 | 24 - 27 - 33 | 700 | 3/4 | 4.6 |

STEERING BALL JOINTS

Hydraulic ball joint puller



- Examples of allocation: Volvo, RVI, Scania, Mercedes.
- Capacity: diameter 36 mm, can be used on ball joints of trucks, coaches.
- Jack power: 8 tonnes.

| | H [mm] | W [mm] | L [mm] | ΔΔ [kg] |
|----------------|--------|--------|--------|---------|
| U.18H36 | 400 | 100 | 480 | 6.8 |

HGV's ball joint puller



- Mechanical screw model.
- Diameter 36 mm.

| | H [mm] | L [mm] | P [mm] | ΔΔ [kg] |
|----------------|--------|--------|--------|---------|
| U.18-36 | 80 | 210 | 180 | 4.3 |

Ball joint puller



- Used to dismount steering and suspension ball joints.
- Length: 158 mm, height: 75 mm.
- Capacity diameter 32 mm, opening 80 mm.
- U.16A-45-05J3: Set of 3 safety pins.

| | A [mm] | d [mm] | H [mm] | L [mm] | ΔΔ [kg] |
|----------------|--------|--------|--------|--------|---------|
| U.16B32 | 80 | 32 | 75 | 158 | 2.5 |

LCV's, HGV's ball joint puller



- Used to dismount steering and suspension ball joints.
- Length: 158 mm, height: 90 mm.
- Capacity diameter 45 mm, opening 80 mm.
- U.16A-45-05J3: Set of 3 safety pins.

| | A [mm] | d [mm] | H [mm] | L [mm] | ΔΔ [kg] |
|----------------|--------|--------|--------|--------|---------|
| U.16A45 | 80 | 45 | 90 | 158 | 2.6 |



FLUO

RFid



ELECTRICITY - HG

Crimping pliers for tubular terminals with rotating dies



- Rotating dies indexable in 6 positions:
6 - 10 - 16 - 25 - 35 - 50 mm².
- The pliers can be disengaged during crimping.
- Capacity: 6 to 50 mm²



| | L [mm] | ΔΔ [kg] |
|---------------|--------|---------|
| 986095 | 390 | 1.185 |

HYDRAULIC CRIMPING



Reliability and safety

- Effortless crimping, identical to original fit, of all large-size electrical terminals (10 to 70 mm²) found on a heavy vehicle.
- Repair faster and higher quality than soldering.
- Easier access and better grip than mechanical liers.
- Examples of use: terminals on batteries, alternators, starters, ground studs, electric lifts, gate links, etc.

Hydraulic crimping pliers



- Example of use: battery, alternator, starter, tailgate, trailers.
- High quality crimping in a shape identical to what is done in the factory thanks to the 35,000 N jack and crimping complete trigger system guaranteeing proper pressure.
- Faster and more reliable than welding.
- Crimps electric terminals from 10 to 70 mm.
- Heads rotating over 360° for difficult access.
- Travel adjustable from 5 to 8 mm.
- Pliers dimension (L. x D. x H.): 215 x 180 x 30 mm.
- Pliers supplied in a box with 5 hexagon-shaped dies:
10 - 25 - 35 - 50 - 70 mm².



| | H [mm] | L [mm] | W [mm] | ΔΔ [kg] |
|--------------|--------|--------|--------|---------|
| 789.5 | 30 | 215 | 180 | 1.7 |

12 - 24 volt battery charger for HGV's, CGV's, LGV's, farm equipment



- Compatible with all "lead acid" batteries: VLRA, GEL, AGM, CALCIUM, Liquid.
- "Standard" mode for humid battery.
- "Power supply" mode to supply and save memory when changing a battery.
- "Dry" mode for charging AGM, GEL and VLRA batteries.
- Can be used as maintaining charger.
- "BOOST" mode to save limit batteries.
- Automatic charge compensation according to the temperature around the battery.
- Automatic 12 - 24 V switching.
- For batteries 12 V and 24 V, 90 Ah to 600 Ah batteries.
- Power supply: 200 V, 50 - 60 Hz.
- Supplied with alligator clips.



| BC2410 | ΔΔ [kg] |
|--------|---------|
| | 2,3 |

Automotive multimeter



- Measures internal resistance of batteries.
- Automatic calibre.
- Voltmeter: AC / DC 0 --> 600 V.
- Ammeter: AC / DC 0 --> 400 mA.
- Ohmmeter: 0 0 --> 40 MO.
- Continuity and LED test.
- Temperature measurement.
- Cyclic ratio: 5% --> 99% .
- Cam angle.
- Tachometer.
- Frequency meter: 1 Hz --> 400 KHz.
- Compatible with clip-on ammeter Ref 711A.P500.



| 714A | ΔΔ [kg] |
|------|---------|
| | 1.265 |

