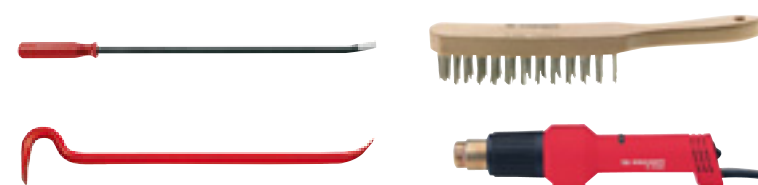




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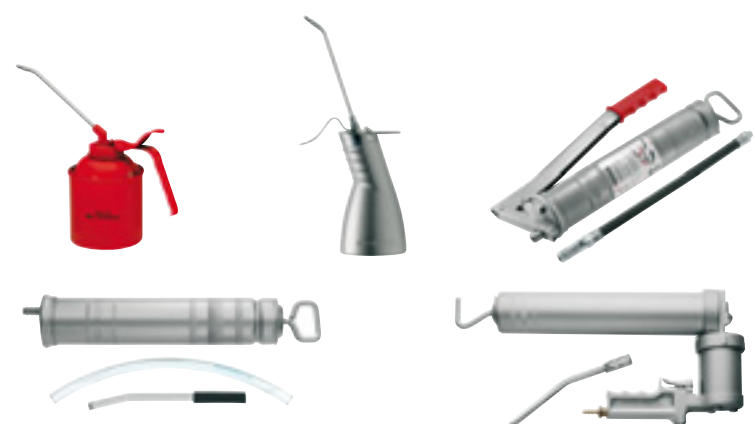
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TEAM

Facom overalls

FOR FACOM, COMFORT AND PROTECTION ARE OF PARAMOUNT CONCERN

Ergonomic - Prevents MSD*

- Elastomer knee-pads for comfort and protection against knee bursitis (housemaid's or clergyman's knee).

*MSD : Musculo-skeletal disorders.



INCLUDES :
2 knee pads

Polyamide-reinforced knees.
Polyester cotton, guaranteed
for 50 washes at 85°.

Knee pads can be removed
during washing.

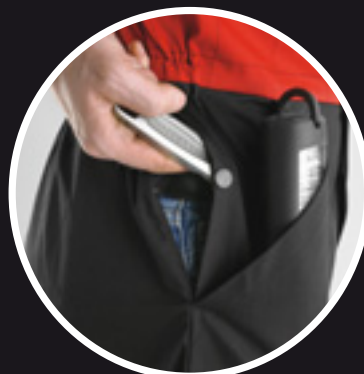
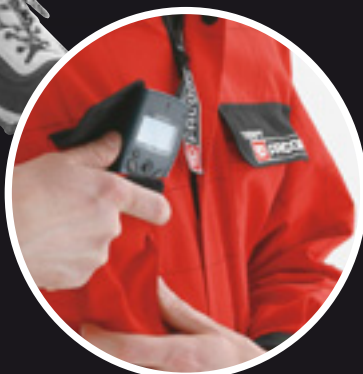
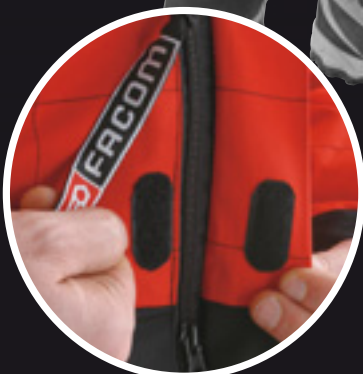
Strong and durable

- Flaps with strong, non-scratching Velcro strips. (No sharp points and cornerless seams for increased stitch-tear resistance.)

Soil resistant

Practical and comfortable

- Two-way polyamide zip fastener (no scratching of bodywork).
- Pockets for mobile telephone and wallet.
- Integral self-adjusting belt (no dangerously hanging belt strap).
- Pants pocket opening.
- Gussets and self-adjusting belt giving complete freedom of movement.



Personal protection equipment

► Protective overalls

COMB - "TEAM" OVERALLS

- Mechanics overalls with removable knee pads to prevent MSD*.
 - Polyamide-reinforced knees.
 - Black fabric on all exposed surfaces to keep the overalls looking neat and clean.
 - Gussets and self-adjusting belt giving complete freedom of movement.
 - 35 % cotton, 65 % polyester, washable at 85°C.
- * MSD : Musculoskeletal disorders.

	Size	Chest size cm
COMBS	S	87 - 94
COMBM	M	95 - 102
COMBL	L	103 - 110
COMBXL	XL	111 - 118
COMBXXL	XXL	119 - 126



► Safety glasses and goggles



Why wear eye protection ?

- 1) To protect against projections of solid particles (spectacle type), liquids or chemicals (mask type).
- 2) To protect against UV radiation.

Wear eye protection wherever there is a risk of exposure to particles, chemical products, fumes, splashing, dust, glass fibre, heat or metal shavings.
Protect your eyes : avoid damage.

It is recommended to wear safety goggles with side shields when operating machine tools, wood-working machinery or shredders.



Lens care

Regularly examine goggles and replace if any worn, broken or damaged parts are noted (stems, eyepieces, etc.).
Clean the lenses with warm soapy water. A microfibre cloth can be used to remove grease and dirt from the lenses without damage.

Safety glasses

BC.30VSE

- EN 166 - European directive EC/89/686.
- Treated against UV rays, fogging and scratching.
 - Optical class 1, protection class 1.2.
 - Adjustable and extendable arms.
 - Soft case included.
- ΔΔ : 75 g.



Safety goggles

BC.31VSE

- NF EN 166 - European directive EC/89/686.
- Protection for prescription glasses.
 - Optical class 1, protection class 1.2.
 - Synthetic, anti-UV clear lenses.
 - Resistant to scratching and flying chips (Soft case included).
- ΔΔ : 70 g.



Wrap-around goggles

BC.5

▷ NF EN 166, NF EN 168.

- General-purpose eye protection.
- Essential when using a grinder, chisel, etc.
- Wrap-around design can accommodate spectacles.

ΔΔ : 82 g.



Safety glasses

BC.4

▷ NF EN 166.

- Essential for grinding, brushing or deburring.

ΔΔ : 38 g.



Face masks

Face masks

BC.1J20

▷ NF EN 149.

- Pack of 20 dust masks.
- Essential protection against fine sanding dust, etc.

ΔΔ : 226 g.



Gloves



Why wear gloves?

- 1) To protect against mechanical hazards : abrasion, cut, tear and perforation-resistant gloves. (leather gloves BC.10, BC.109VSE and BC.110VSE).
- 2) To protect against chemical hazards : (latex gloves BC.80VSE and BC.91VSE).
- 3) To protect against electrical hazards : 500 to 1,000 volts (insulating gloves BC.VSE).



Overgloves

▷ European directive EC/89/686.

- Silicon leather giving mechanical protection.
- Worn over latex insulating gloves.
- Physical/mechanical classification 2, 1, 2, 1 to European standard EN 388.

	Cut	ΔΔ g
BC.109VSE	9 (B)	160
BC.110VSE	10 (C)	160



Personal protection equipment

Insulating gloves

▷ EN 60903 - European directive EC/89/686.

- Natural latex, AZMC grade :
- R : resistant to acid, oil and ozone.
- C : resistant to very low temperatures.
- Supplied in an opaque anti-UV pouch.
- Length 360 mm.

ΔΔ : 150 g.

	Cut	Thickness mm	Class	Power supply V
BC.80VSE	9 (B)	0,5	00	500
BC.81VSE	10 (C)	0,5	00	500
BC.90VSE	9 (B)	1	0	1000
BC.91VSE	10 (C)	1	0	1000

Hide gloves

BC.10

- Hide gloves with 10 cm cuffs.
- Essential for handling sheet metal, using shears or a saw, and working with any sharp or rough object.

ΔΔ : 155 g.

▶ Insulating mats

Insulating mats

▷ NF C 18.420.

- Rubber mat to insulate operator from any earthing points.
- Thickness 3.2 mm.
- Hardness 60 DIDC.

	Length x width m	ΔΔ kg
BC.20VSE	1 x 0,6	2,5
BC.21VSE	1 x 1,0	4,2

Miscellaneous maintenance equipment

Heat gun

E.2005

- Electronic temperature control 60 to 600°C.
- Force : 2000 W.
- Air supply : power supply.
- Air flow rate (2 speeds) : 300 and 500 l/min.
- VDE approved.
- Supplied with 2 nozzles : E.2002B1 and E.2002B3.
- Ø 72 x 80 x 330 mm.

E.2002B1 : Distribution nozzle

(ΔΔ 58 g, 75 mm (L) x 75 mm (h) x 33.7 mm (Ø)).

E.2002B2 : Cross-flow nozzle

(ΔΔ 56 g, 75 mm (L) x 80 mm (h) x 33.7 mm (Ø)).

E.2002B3 : Reflector nozzle

(ΔΔ 32 g, 33 mm (L) x 60 mm (h) x 33.7 mm (Ø)).

E.2002B4 : Concentrator nozzle

(ΔΔ 30 g, 20 mm (Ø) x 52 mm (h) x 33.7 mm (Ø)).

ΔΔ : 770 g.



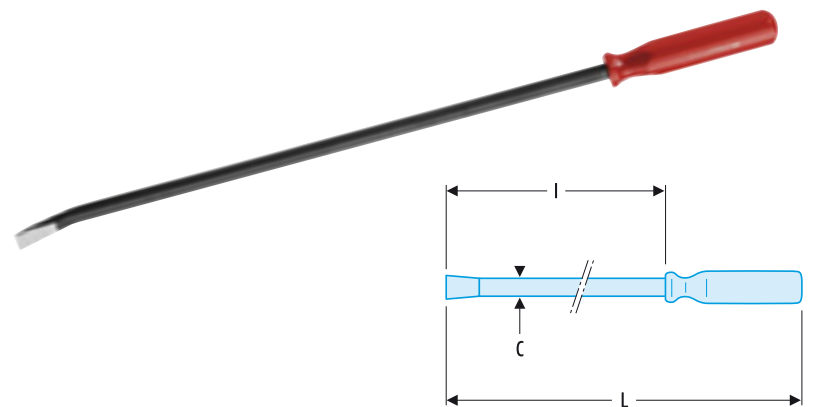
► Power levers

D.3 Power levers

- Sturdy blade minimizing lever spring effect.
- Dimensions 670 x 145 x 40 mm.

ΔΔ : 1.648 kg.

	L mm	l mm	C°	ΔΔ kg
D.3-7	292	165	3/8	0,275
D.3-12	422	305	3/8	0,345
D.3-18	635	460	1/2	0,81
D.3-24	787	610	1/2	1,03
D.3-30	915	740	5/8	1,71



Set of 3 power levers

D.3J3

- Sturdy blade minimizing lever spring effect.
- Many uses : suspension, running gear, bodywork, etc.
- Presented on a blister tray.
- Set comprising one D.3-7, one D.3-12 and one D.3-18.
- Dimensions 670 x 145 x 40 mm.

ΔΔ : 1.648 kg.

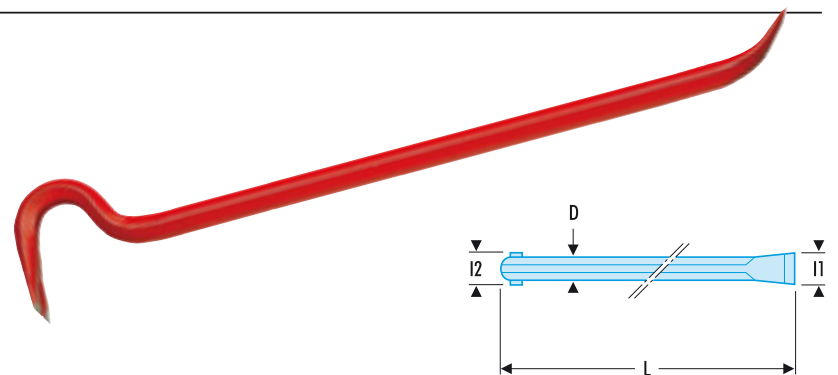


► Wrecking bars

1260 Wrecking bars

- Forged, one flat end and one nail-claw, hardened to 45 HRc.
- Finished in red, polished and varnished tips.

	l1 mm	l2 mm	L mm	D mm	ΔΔ kg
1260.50	33	28	495	18	0,92
1260.70	39	35	710	23	1,14

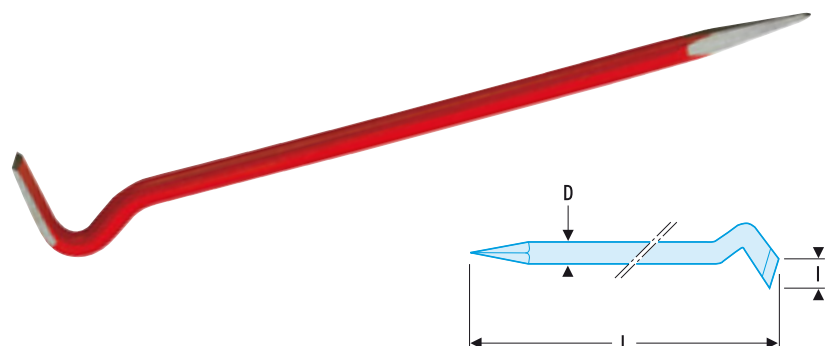


► Crowbars

268 Round crowbars with crook beak

- Forged, point at one end and a wide, thin flat at the other, hardened to 45 HRc.
- Finished in red, polished and varnished tips.

	L mm	D mm	l mm	ΔΔ kg
268.3	450	16	32	0,67
268.4	790	20	32	1,97
269	400	18	27	0,59



Steel wire brush

270A.MA

- 280 x 34 x 60 mm.

ΔΔ : 150 g.



► Pipe wrenches



Pipe wrenches

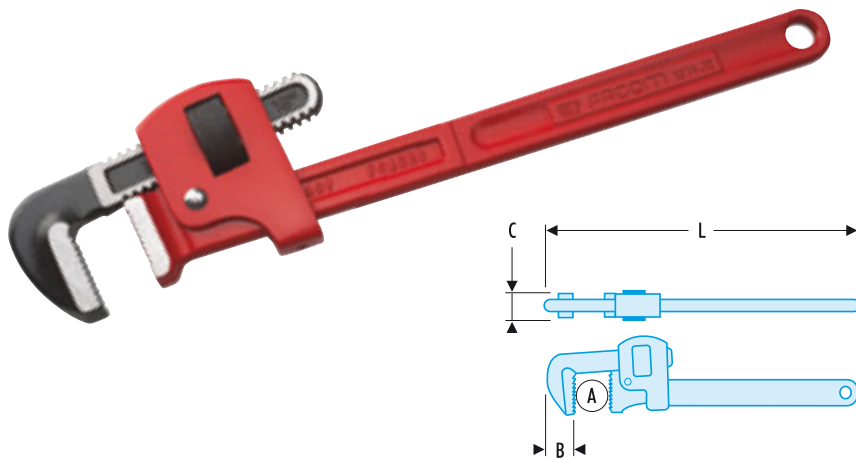
- A range of products geared to building maintenance as well as construction sites.
- Lightweight or special-jaw series to suit every application.



131A Steel Stillson models

- Capacity : 0 to 102 mm; 0 to 3 1/2".
- Very heavy duty tool with teeth hardened to 55 HRc.
- Precise adjustment from accurately machined worm gear. Sure handling.

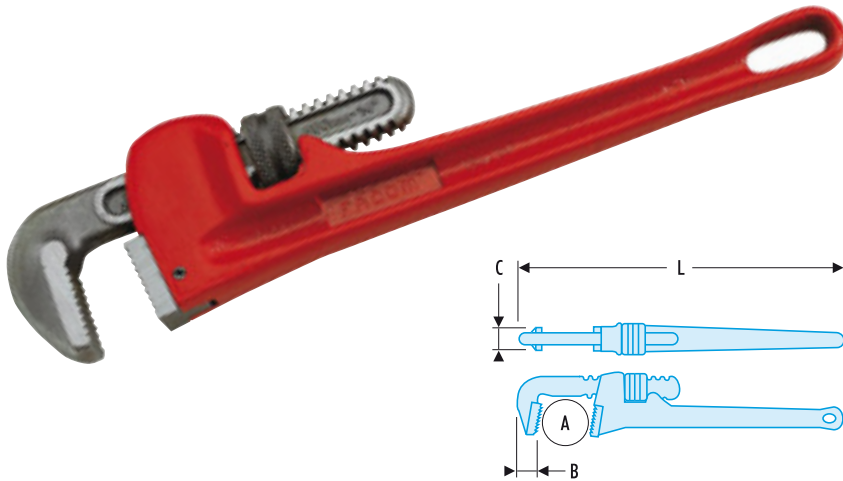
	A max		B	C	L		ΔΔ
	mm	"	mm	mm	mm	"	kg
131A.8	27	3/4	19,5	12,5	200	8	0,28
131A.10	34	1	25,0	16,0	250	10	0,6
131A.14	49	1" 1/2	29,5	21,0	350	14	1,06
131A.18	60	2	32,0	24,0	450	18	1,8
131A.24	76	2" 1/2	41,5	27,5	600	24	3
131A.36	102	3" 1/2	49,5	30,5	900	36	6



134A Cast-iron American model pipe wrenches

- Capacity : 0 to 140 mm; 0 to 5".
- Cast-iron body.
- Interchangeable fixed jaw hardened to 55 HRc.
- Forged steel moving jaw.

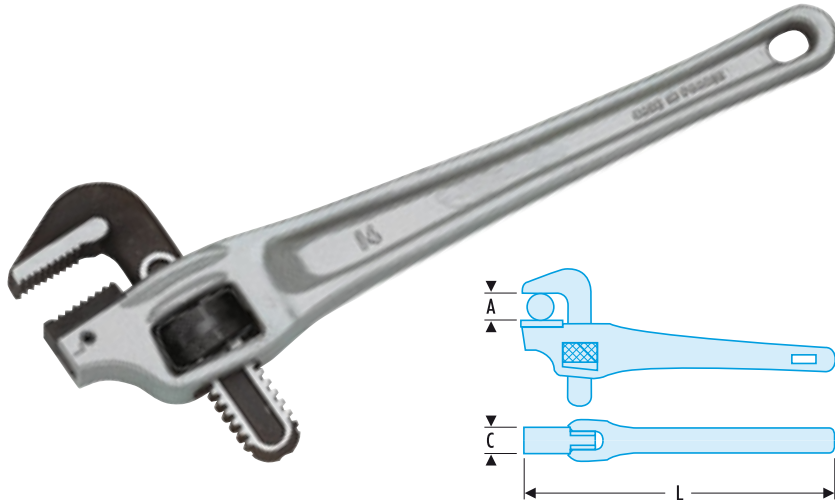
	A max		B	C	L		ΔΔ
	mm	"	mm	mm	mm	"	kg
134A.8	35	1	15	14,5	200	8	0,4
134A.10	54	1" 1/2	20	17,5	250	10	0,78
134A.14	60	2	26	21,5	350	14	1,5
134A.18	76	2" 1/2	29	26,0	450	18	2,4
134A.24	102	3" 1/2	35	29,5	610	24	4
134A.36	140	5	35,5	43	920	36	9



135A Light alloy 90° offset American model pipe wrenches

- Capacity : 0 to 76 mm; 0 to 2 1/2".
- Light alloy body.
- Forged steel jaws hardened to 55 HRc.

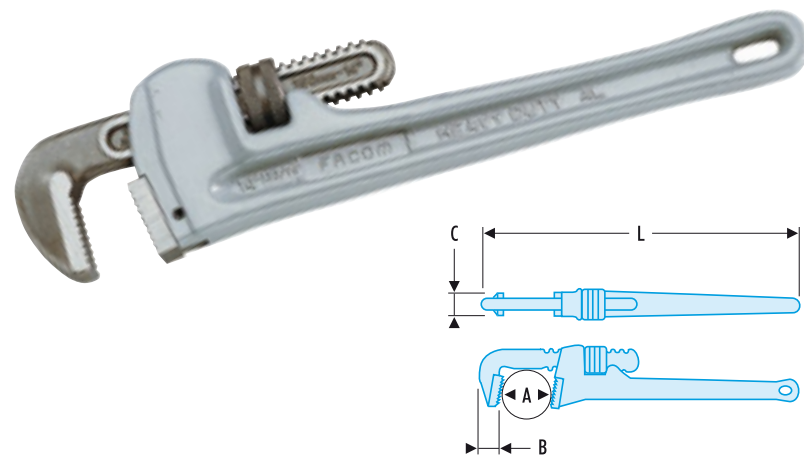
	A max		C	L		ΔΔ
	mm	"	mm	mm	"	kg
135A.14	49	1" 1/2"	34	350	14	0,94
135A.18	60	2	39	450	39	1,48
135A.24	76	2" 1/2"	47	600	47	2,45



133A Light alloy American model pipe wrenches

- Capacity : 0 to 140 mm; 0 to 5".
- Performance similar to models 134A.

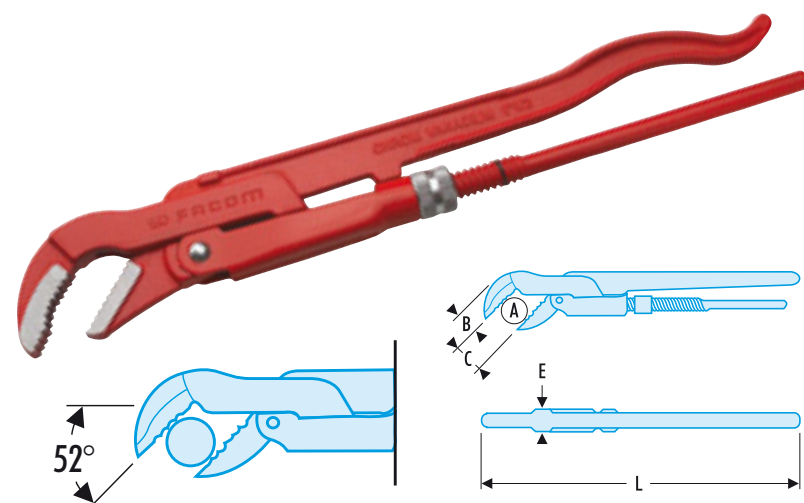
	A max		B	C	L		$\Delta\Delta$
	mm	"	mm	mm	mm	"	kg
133A.14	60	2	26	21,5	350	14	1
133A.18	76	2 "1/2"	30	26,0	450	18	1,56
133A.24	90	3	34	29,5	600	24	2,46
133A.36	140	5	44	32,0	900	36	5,18



120A 45° Swedish model pipe wrenches

- Capacity : 10 to 60 mm; 3/8" to 2".
- High-quality forged steel body.

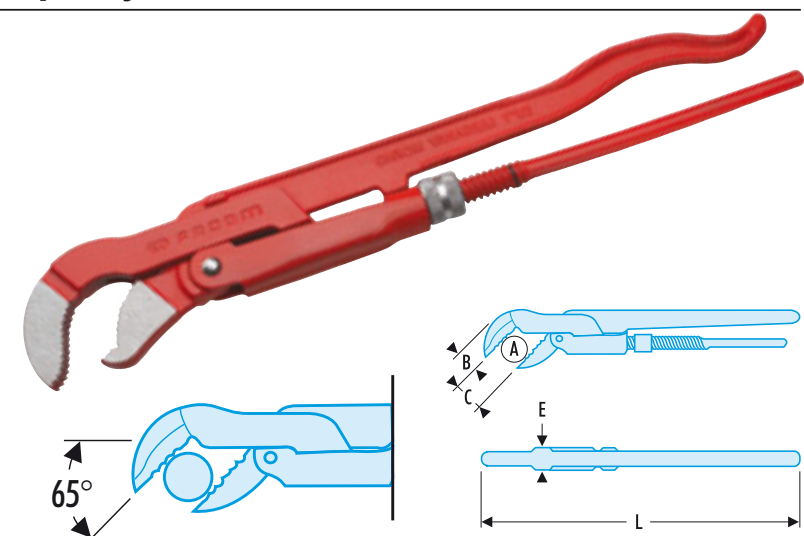
	A		C max	B	E	L	$\Delta\Delta$
	mm	"	mm	mm	mm	mm	kg
120A.1/2	21	1/2	29	16	8	240	0,42
120A.1'	34	1	45	19	10	320	0,84
120A.1'1/2	49	1"1/2"	59	25	13	430	1,45
120A.2'	60	2	76	32	17	560	2,4



121A 45° Swedish model pipe wrenches - S-shaped jaw

- ▷ DIN 5234.
- Capacity : 10 to 60 mm ; 3/8" to 2".
- High-quality forged steel body.
- Special jaw design grips pipe at three points.

	A		C max mm	B mm	E mm	L mm	$\Delta\Delta$ kg
	mm	"					
121A.1'	34	1	48	22	14	345	0,85
121A.1'1/2	49	1" 1/2	55	26	19	450	1,55
121A.2'	60	2	68	39	21	600	2,3

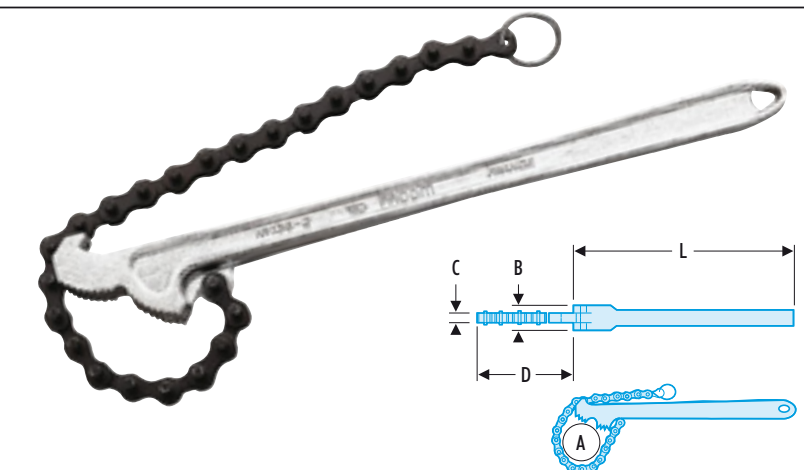


► Chain and strap wrenches

136A Dual-purpose models

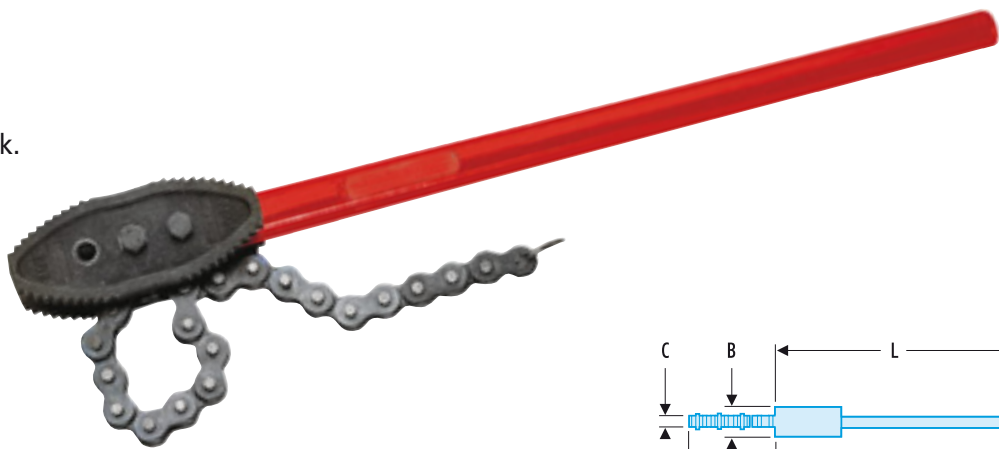
- Capacity : 60 to 140 mm.
- Hardened steel chain and body.
- Twin set of serrations grip in both directions.

	A		D		B	C	L	$\Delta\Delta$
	mm	"	mm	"	mm	mm	mm	kg
136A.2	60-114	2-4"	460	18,5	20	7	360	1,04
136B.4	90-140	3-5"	600	24	30	10	600	3,1
	Description							
136.D2	Spare chain for wrench 136A.2							
136A.C4	Spare chain for wrench 136B.4 and 136A.4							



137A Heavy-duty models

- Capacity : 50 to 180 mm.
- Forged steel handle.
- Teeth hardened to 48 HRc.
- Plate treated against corrosion.
- Ratchet action in both directions for in-channel pipework.

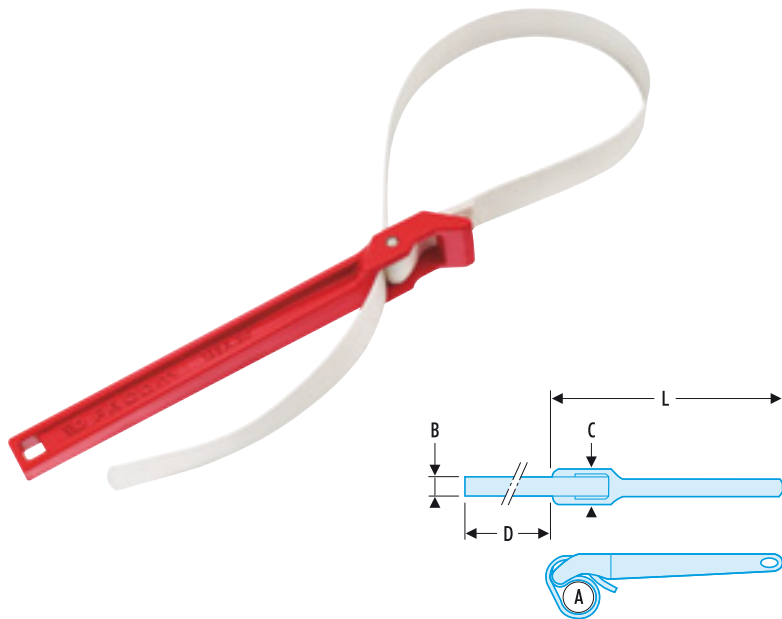


	A		D		B	C	L	ΔΔ kg
	mm	"	mm	"	mm	mm	mm	
137A.2'1/2	50-90	2-39/16	415	16	55	20	550	4,5
137A.4'	60-130	23/8-51/8	560	24	60	20	910	8
137A.6'	80-180	33/16-71/8	690	27	80	32	1065	10,5
Description								
137A.C2'1/2	Spare chain for wrench 137A. 2'1/2							
137A.C4'	Spare chain for heavy-duty wrench 137A.4'							
137A.C6'	Spare chain for heavy-duty wrench 137A.6'							

138A Nylon strap wrenches

- Capacity : 0 to 165 mm.
- Aluminium alloy body.
- Very strong nylon strap.

	A max		B	C	D	L	ΔΔ g
	mm	"	mm	mm	mm	mm	
138A.17	60	2	30	42	450	315	280
138A.30	125	4	30	42	750	315	290
138A.48	165	6	30	42	1500	315	310
Description							
138.S17	Spare strap for 138A.17						
138.S30	Spare strap for 138A.30						
138.S48	Spare strap						

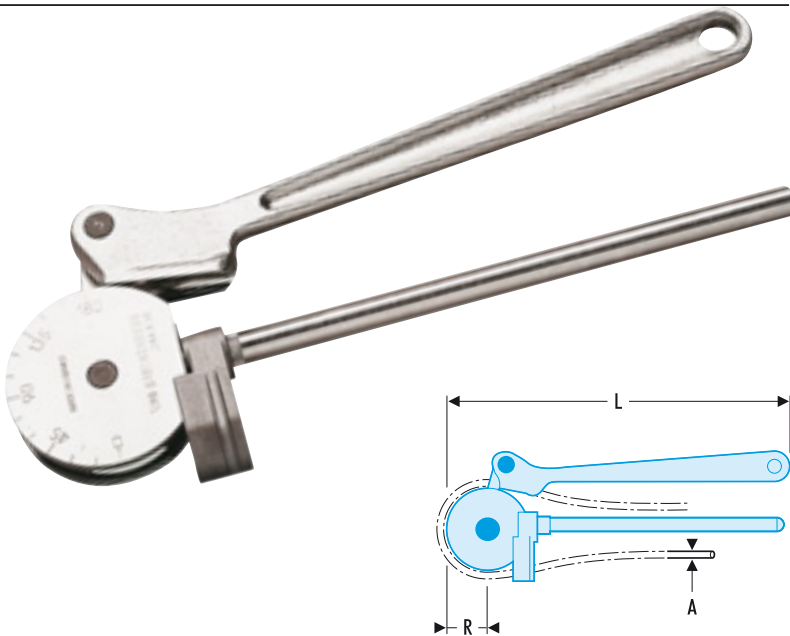


► Pipe benders

344A Pipe benders

- Capacity : 8 to 18 mm.
- For cold-drawn and annealed copper.
- Ideal for use on site without any other jig.
- Bend angle dial up to 180°.
- Fits inside a tool case.
- Forged and machined steel construction.

	R	A	A"	L	ΔΔ kg
	mm	mm		mm	
344A.8	14	8	5/16	208	0,34
344A.10	23	10		245	0,7
344A.12	30	12		270	0,9
344A.14	42	14		352	1,8
344A.15	42	15	5/8	352	1,9
344A.16	54	16		380	2,64
344A.18	55	18		380	2,9



Pipeline tools

244A.J Pipe bending kits

- Set of bending tools for steel, annealed copper and aluminium pipes.
- Capacity :
 - 244A.J1 : Pipes Ø 5 mm (3/16"), Ø 6 mm (1/4"), Ø 8 mm (5/16") and Ø 10 mm (3/8").
 - 244.J2 Pipes Ø 6 mm (1/4"), Ø 8 mm (5/16"), Ø 10 mm (3/8"), Ø 12 mm (1/2").
- Complete with mini-cutter 238A.16 in a steel case.
- Dimensions : 405 x 165 x 55 mm.

	 mm	 kg
244A.J1	405 x 165 x 55	2,8
244.J2	405 x 165 x 55	3,2



Mini bender

244

- Capacity : For thin-wall steel Ø 4.75 to 8 mm.
- Annealed copper and aluminium Ø 4.75 to 12 mm.
- Can produce templates.
- Designed to take various formers and guides.
- Dimensions : 155 x 100 x 20 mm.

 $\Delta\Delta : 370 \text{ g.}$ 

244.A Former-and-guide assemblies

	Dimensions		$\Delta\Delta$ g
	"	mm	
244.A5	3/16	5	160
244.A6	1/4	6	200
244.A8	5/16	8	250
244.A10	3/8	10	310
244.A12	1/2	12	365



► Iron-pipe cutter

Iron-pipe cutter

338B.1

- Precision roller guides for right-angle cuts.
- Can take 3 cutting wheels for 1/3 turn cuts in confined spaces.
- Dimensions : 130 x 34 mm.
- Min. length 255 mm, max. 310 mm.
- Capacity : 10 to 42 mm, 1/8 to 1 1/8".

 $\Delta\Delta\Delta : 1.48 \text{ kg.}$

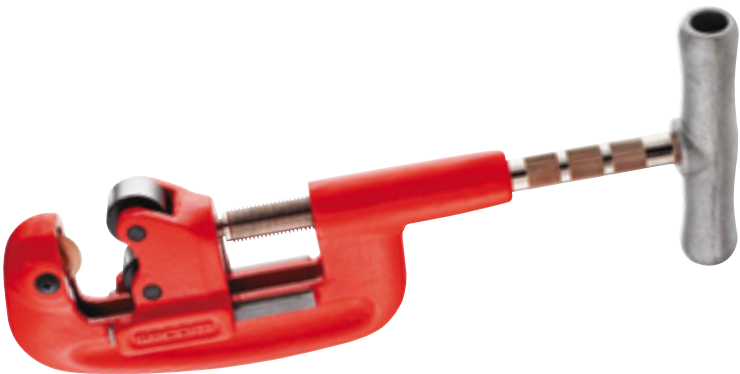
- 338A.F5 : Set of 5 spare wheels.



Stainless-pipe cutter

337A.2

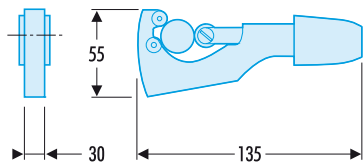
- Precision roller guides for right-angle cuts.
 - Can take 3 cutting wheels for 1/3 turn cuts in confined spaces.
 - Fitted with a wheel for cutting stainless steel pipes.
 - Dimensions : 160 x 34 mm.
 - Capacity : 21 to 60 mm, 1/2 to 2".
 - Min. length 310 mm, max. 400 mm.
- ΔΔ : 2.7 kg.
- 337.F5 : Set of 5 spare wheels.



"Precision" stainless-pipe cutter

334.32NX

- Comfortable fast-action adjuster.
 - Effective pipe guide. 90° cut.
 - Grooves for cutting tight against flanges.
 - Retractable rotating reamer Ø 3.2 mm.
 - Integral spare stainless steel wheel and guide.
 - For pipework Ø 6 - 32 mm; 1/4 - 1 1/4".
- ΔΔ : 450 g.
- 334.M5 : Set of 5 spare wheels.

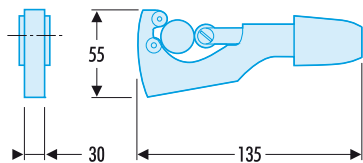


► Copper-pipe cutter

"Precision" copper-pipe cutter

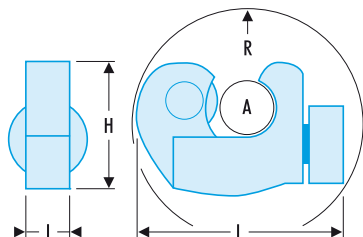
334.32

- Comfortable fast-action adjuster.
 - Effective pipe guide. 90° cut.
 - Grooves for cutting tight against flanges.
 - Retractable rotating reamer Ø 3.2 mm.
 - Integral spare wheel.
 - For pipes Ø 6 - 32 mm; 1/4 - 1 1/4".
- ΔΔ : 450 g.
- 238A.M5 : Set of 5 spare wheels.



238 Copper-pipe mini cutter

- Very compact.
 - Can be used in situ.
 - Minimal working radius.
- : 238A.16, grey.
- Set of 5 spare wheels.
- : 238.16M5 for model 238A.16
- : 238A.M5 for model 238.28.
- : 238.M5 for old model 238.16.



	A		R	H	I	L	ΔΔ
	mm	"					
238B.16	3 - 16	1/8 - 5/8	38	35	21	55	120
238.28	6 - 28	1/4 - 1 1/8	50	50	26	80	205



► Deburring - Chamfering

Deburring/chamfering set

325

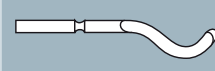
- Set of deburring/chamfering tools for steel, aluminium, copper, brass or plastic pipes.
- Effective length of blade-holder 110 mm.
- Case 200 x 110 x 40 mm.



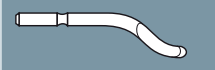
Kit contents



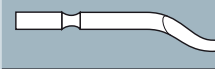
325.L35J10 Heavy-duty HSS blade for steel and aluminium.
Length : 47 mm; Ø 3.2 mm.



325.L20J10 Heavy-duty HSS blade for cast iron and brass. Left and right-hand operation.
Length : 47 mm; Ø 3.2 mm.



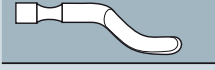
325.L30J10 Heavy-duty HSS blade for outside and inside deburring, in particular of drilled holes.
Length : 47 mm; Ø 3.2 mm.



325.L10J10 Fine HSS blade for steel and aluminium.
Length : 47 mm; Ø 3.5 mm.



325.L1J10 HSS blade for steel and aluminium.
Length : 23 mm; Ø 2.6 mm.



325.L2J10 HSS blade for cast iron and brass. Left and right-hand operation.
Length : 23 mm; Ø 2.6 mm.



325.01 Short-blade monobloc deburrer for steel and aluminium.



325.04.01 Extension for cone bits.



325.F12 Tapered bit Ø 12 mm - M7 thread.



325.F20 Tapered bit Ø 20 mm - M7 thread.



325.03 Extension for blades Ø 2.6 and 3.2 mm.



325.05 Reversible triangular scraper.



325.02 Tool-holder handle for 325.04.01, 325.03, 325.05.

► Flanging tools

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

347

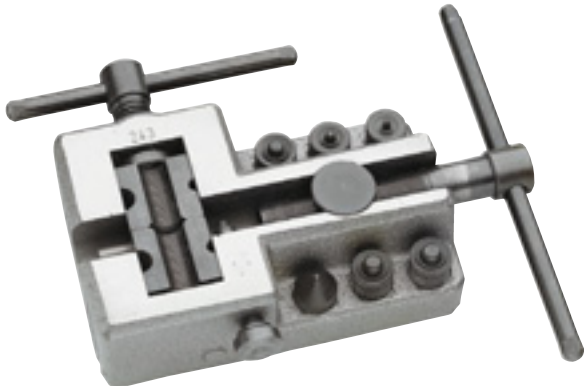
- For copper and steel pipework Ø 4.75 to 12 mm; 3/16" to 1/2".
- Wall thickness : 0.7 to 1 mm.
- Press can be secured in a vice for increased stability.
- Fast and effortless forming.
- Kit includes 11 punches and 10 dies.
- Instructions explain selection according to flange type.
- Steel case : 396 x 224 x 82 mm.
- ΔΔ : 7.9 kg.



Flange press

243

- ▷ DIN 74234.
- For seamless and rolled pipes Ø 4.75-6-8-9-10 mm; wall thickness 0.7 to 1 mm.
- Can be secured in a vice.
- Dimensions : 170 x 130 x 55 mm.
- ΔΔ : 2.58 kg.



"Refrigeration" flaring tool, metric dies 6 to 14 mm**239**

- For pipework Ø 6 to 14 mm.
- Produces 45° flares in copper pipes without the need for annealing.

• BT.115 : 332 x 143 x 67 mm.

ΔΔ : 1.52 kg.

■ 239.MU : Inch dies : For pipework Ø 3/16" to 5/8".

	Description
239	Metric die 6mm - 14mm
239.MU	Inch die 3/16" - 5/8"

**"Refrigeration" metric set****240.M**

- Yoke and die for pipework Ø 6-8-10-12-14 mm.

238A.32 Pipe cutter.

- Supplied in a plastic case.

BP.115 : 332 x 143 x 67 mm.

ΔΔ : 1.82 kg.

"Refrigeration" metric/inch set**242**

- Yoke.
- Die for pipework Ø 6-8-10-12-14 mm.
- Die for pipework Ø 3/16"-1/4"-5/16"-3/8"-7/16"-1/2"-5/8".

238A.32 Pipe cutter.

- Complete with a plastic case 350 x 125 x 40 mm.

ΔΔ : 2.4 kg.

**Press and mini-bender set****243.244J1**

- For flanging and bending copper, aluminium, and mild-steel pipework, wall thickness 0.7 to 1 mm.

- Suitable for pipework Ø 4.75 - 6 - 8 - 9 - 10 mm.

- Comprising :

- Flange press ref. 243.

- Mini bender 244 and bending formers.

- Pipe cutter 238A.16

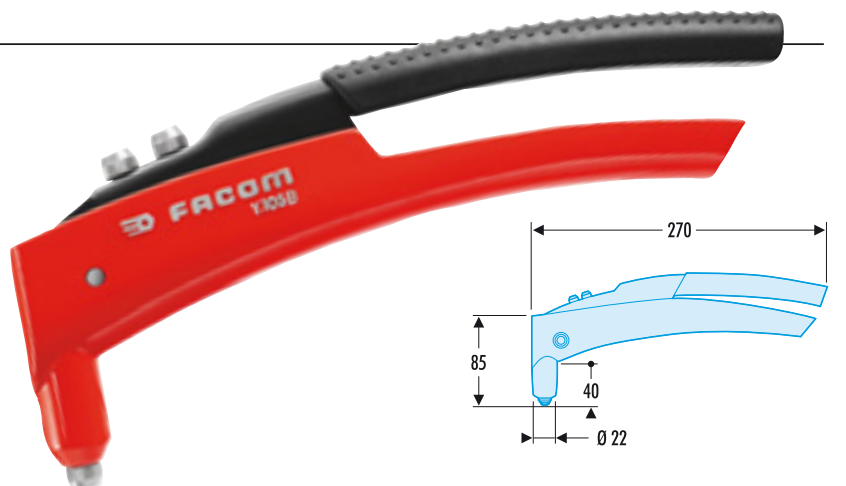
- Complete with steel case 405 x 165 x 55 mm.

ΔΔ : 5.4 kg.

**Riveting****► Hand riveters****Riveter****Y.105B**

- Capacity : Ø 5 mm aluminium rivets and Ø 4 mm steel rivets.
- Grips shaped for optimum comfort.
- Return-spring to closed position prevents loss of rivet.
- Cushioning system when pin snaps.
- Supplied with 3 nosepieces Ø 3 to 3.2 mm - 4 mm - 4.8 to 5 mm.
- Knurled nosepieces for hand-fitting.

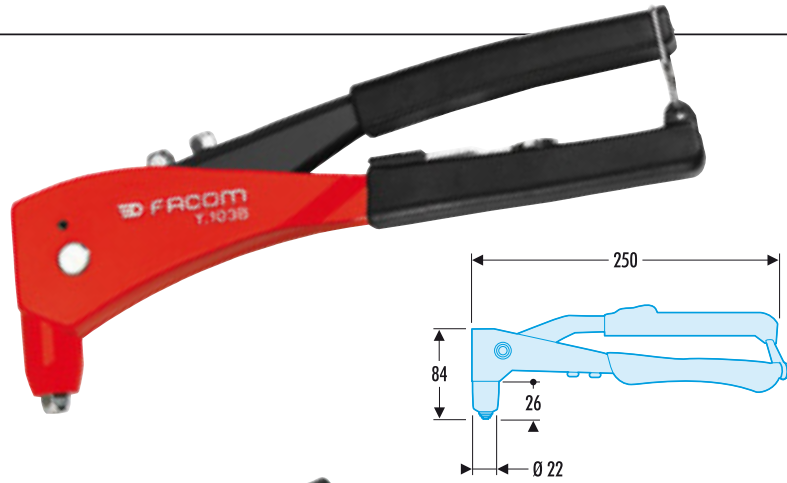
ΔΔ : 632 g.



Riveter

Y.103B

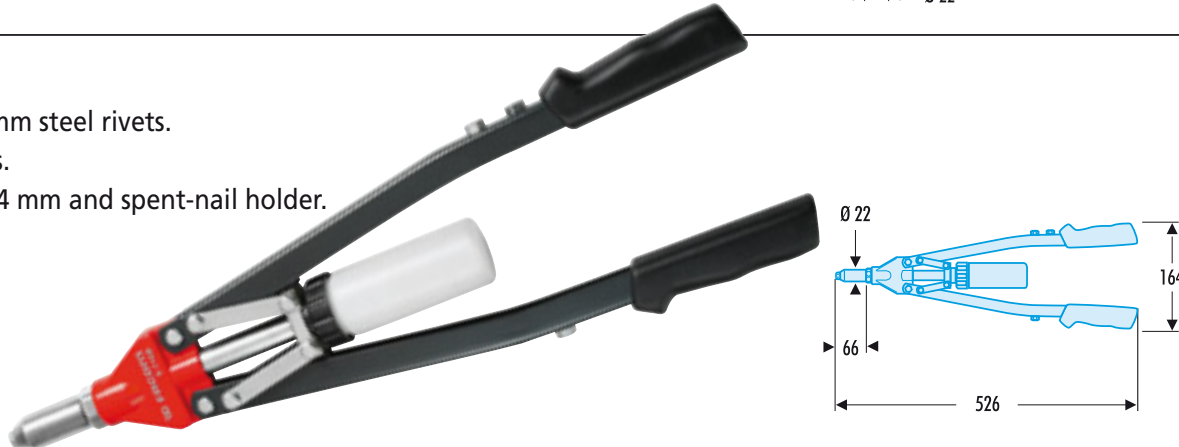
- Capacity :
 - Aluminium rivets 3, 3.2, 4, 4.8 and 5 mm diameter.
 - Steel rivets 3, 3.2 and 4 mm diameter.
 - Spring-loaded to open position.
 - 3 nosepieces with keys for Ø 3 to 3.2 mm - 4 mm - 4.8 mm to 5 mm.
- ΔΔ : 595 g.



Two-handed riveter

Y.116

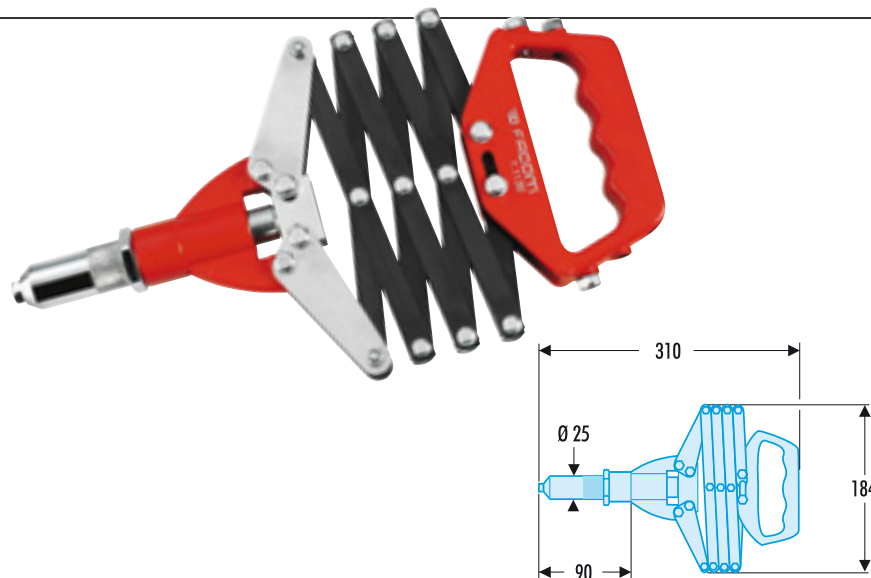
- Capacity : Ø 6.4 mm aluminium rivets, 6 mm steel rivets.
 - Absorbers cushion impact when pin snaps.
 - Supplied with 4 nosepieces Ø 4 - 5 - 6 - 6.4 mm and spent-nail holder.
- ΔΔ : 1.9 kg.



Extender

Y.113

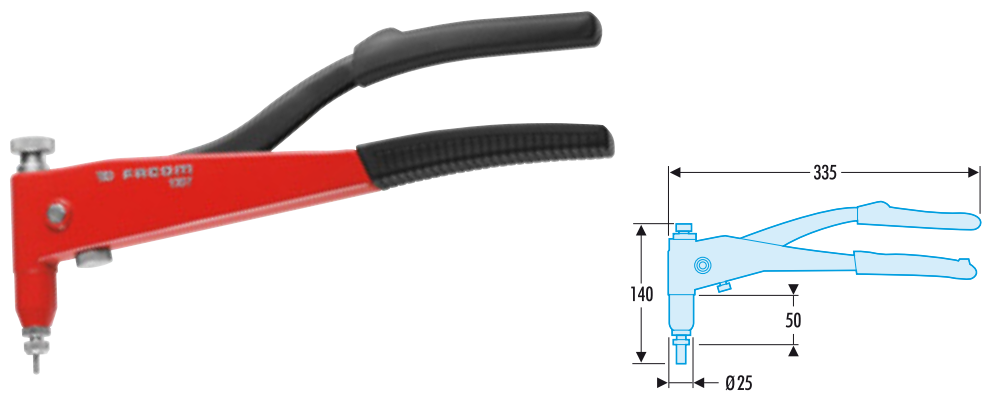
- Capacity : Ø 6.4 mm aluminium rivets and Ø 5 mm steel rivets.
 - Suitable for intensive use especially on building sites.
 - Supplied with 5 nosepieces Ø 3 to 3.2 mm - 4 mm - 4.8 to 5 mm - 6 mm - 6.4 mm.
- ΔΔ : 2.15 kg.



Blind-nut riveter

Y.107

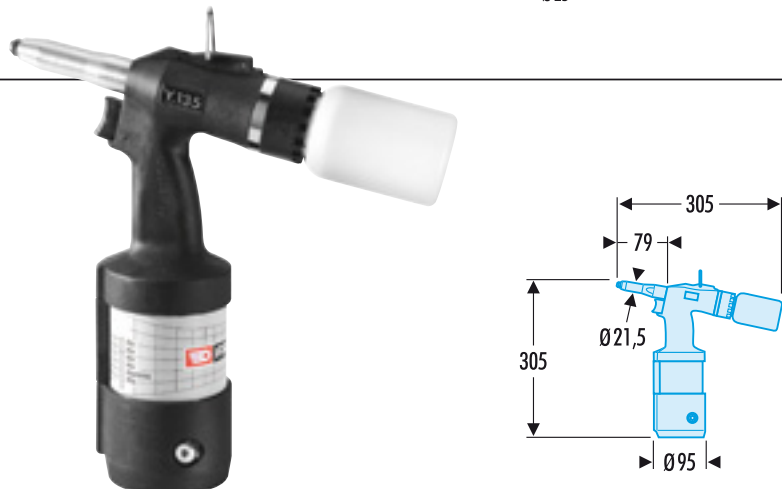
- Capacity : M6 steel nuts and M5 stainless nuts.
 - Supplied with 3 chucks M4 - M5 - M6.
 - Single or two-handed use.
 - Complete with accessories.
- ΔΔ : 1.17 kg.



Suction riveter

Y.135

- Capacity : Ø 5 mm in any material.
 - Traction travel 17 mm.
 - Force 1,100N.
 - Adjustable pin-suction.
 - Spent-nail holder.
 - Swivel air-connection fits under or to the side of the gun.
 - Supplied with nozzles for 2 - 3 - 4 and 5 mm diameter rivets.
- ΔΔ : 2.47 kg.



► Riveting kits

Maintenance kit for multi-thickness aluminium rivets

Y.RIV1

- Y.105B Riveter.
 - Selection of rivets Ø 4 to 4.8 mm with standard head, 4.8 mm with wide head, in popular sizes for joint thickness 1.3 to 13 mm (approx. 450 rivets).
 - Partitioned case with contents list.
 - Case 360 x 300 x 60 mm.
- ΔΔ : 2.7 kg.

Maintenance kit for aluminium and black rivets

Y.RIV2

- Y.105B Riveter.
 - Selection of aluminium rivets with standard head 4 x 8 - 4 x 10 - 4.8 x 8 - 4.8 x 10, and black aluminium rivets with standard head 4 x 8 - 4 x 10 (approx. 600 rivets).
 - Case 360 x 300 x 60 mm.
- ΔΔ : 2.43 kg.

Maintenance kit for aluminium rivets

Y.RIV3

- Y.105B Riveter.
 - Selection of aluminium rivets with standard head 4 x 8 - 4 x 10 - 4.8 x 8 - 4.8 x 10, and with wide head 4 x 8 - 4 x 10 (approx. 600 rivets).
 - Case 360 x 300 x 60 mm.
- ΔΔ : 2.35 kg.

Blind-nut kit

Y.M46

- Comprising :
 - Y.107 Blind-nut riveter.
 - Selection of steel nuts M4 - M5 - M6 in popular sizes for joint thicknesses 0.3 to 3 mm (approx. 100 nuts).
 - Partitioned case with contents list and instructions : 360 x 300 x 60 mm.
- ΔΔ : 2.5 kg.

Riveting module

MOD.Y105PB

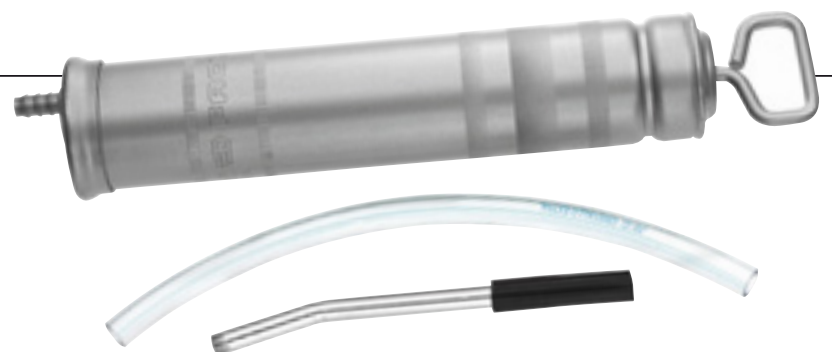
- Y.105B Riveter.
 - 600 aluminium rivets :
 - Standard head : 4x8 - 4x10 - 4.8x8 - 4.8x10.
 - Black standard head : 4x8 - 4x10.
 - Tray PL.377.
- ΔΔ : 1.984 kg.

Lubrication

Manual oil syringe

376A

- Capacity : 500 cm³.
 - Galvanized steel body.
 - Supplied with : 376A.1 Angled delivery tube.
 - Length 420 mm.
- ΔΔ : 830 g.



Lever-operated grease gun

378A

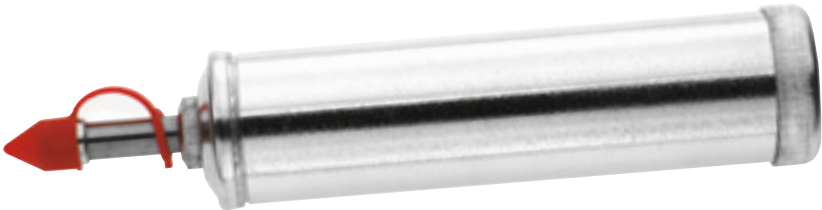
- ▷ DIN 1284 - Grease cartridge.
- Pressure 400 bars. Air bleed facility.
- For use with cartridges or bulk grease.
- Capacity 500 cm³ or 400 g of grease.
- Hose to DIN 1283 (static and bursting pressure).
- Hose constructed of rubber approved to DIN 20024.
- Hose diameter = 13.1 mm.
- Hose bending radius = 90 mm.
- Length : 370 mm excluding hose.
- ΔΔ : 1.356 kg.



Compact grease gun

377A

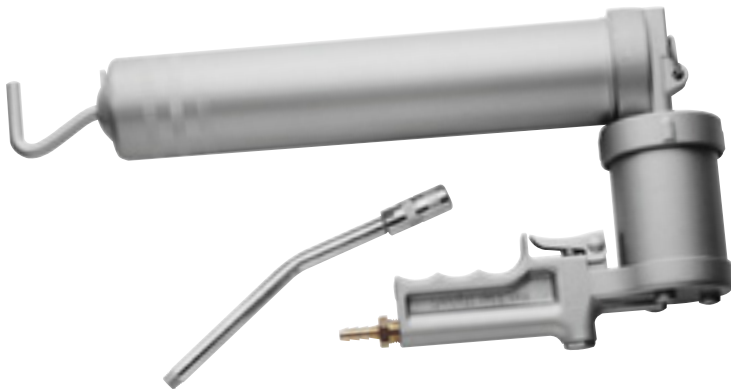
- ▷ DIN 1282
- Nickel finish steel body.
- Supplied with 1 lube coupler and 1 hydraulic coupler.
- Capacity 150 cm³.
- Pressure 200 bar.
- Length : 345 mm Ø 43 mm.
- ΔΔ : 410 g.



Air-operated grease gun

379A

- Aluminium body. Capacity 500 cm³, i.e. 400g of grease. 1 cm³ per stroke.
- Air pressure 2 to 8 bar (6 bar recommended).
- Supply hose Ø 8 mm.
- Cartridge fill or from bulk grease.
- Length : 179 mm. Height : 380 mm.
- Complete with angled delivery tube fitted with coupler.
- ΔΔ : 1.7 kg.



Set of grease fittings

380

- Selection of delivery tubes and hoses, with couplers for all common types of grease nipple.
- Suitable for models 378A and 379A.
- Case 310 x 110 x 55 mm.
- ΔΔ : 425 g.



373 Single-action oil cans

- Pumped delivery. rigid steel body.
- 373.F35 has flexible spout.

	Capacity cm³	Tips length mm	Ø mm	ΔΔ g
373.25	250	130	73	210
373.35	350	130	84	236
373.50	500	130	84	277
373.F35	350	130	84	240



Double-action oil can

374A.20

- Double-acting pump.
- Useable in any position. Dispenses drop-by-drop.
- Capacity : 200 ml.
- Impact-resistant zinc body.

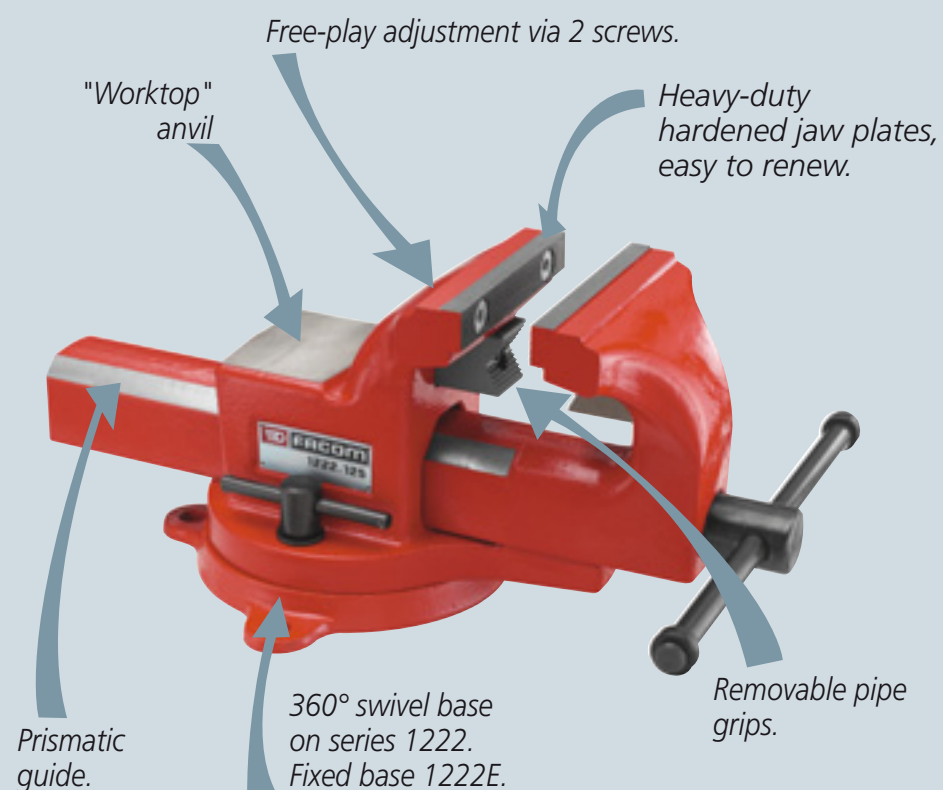
	Height mm	Width mm	Depth mm	ΔΔ g
374A.20	271	117	61	442



Vices

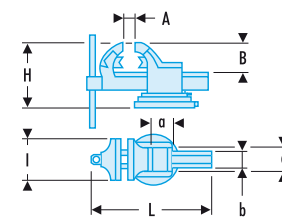


Vices



1222 Engineers vices with 360° swivel base

- Spherical graphite cast-iron vices, minimum failure load 700 N/mm² .
- Large prismatic guide/moving jaw support base prevents the guide from bending, vice operation maintained even under heavy loads.
- Interchangeable parallel jaw plates. High wear resistance, hardness 48/53 HRc.
- Removable V-shaped jaws for clamping pipes. Hardness 40/46 HRc.
- Take-up of wear by means of 2 adjustment screws.
- Burnished operating handle.

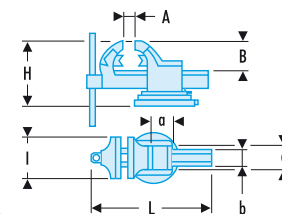


	I mm	A max mm	L mm	B mm	a x b mm	c mm	H mm	Max capa- city/ tube	ΔΔ kg
1222.100	100	125	325	66	48x68	41,5	140	3/4"	7,24
1222.125	125	150	402	82	60x84	51,5	172	2.1/2"	13,80
1222.150	150	200	492	99	70x96	58,5	201	3"	21,85
1222.175	175	235	551	118	80x110	67,5	237	4"	33,35



1222.E Engineers vices with fixed base

- Similar to model 1222 but without swivel base.



	H mm	$\Delta\Delta$ kg
1222.100E	122	6,30
1222.125E	153	12,70
1222.150E	182	20,45
1222.175E	211	30,70

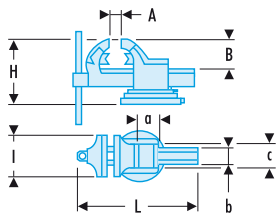


Vices and clamps

1223 Fitters swivel-base vices

- Interchangeable jaw plates.
- Free-play compensation.
- All steel construction.

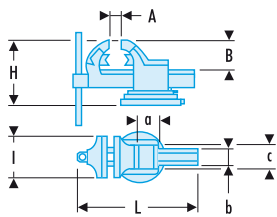
	I mm	A max mm	L mm	B mm	H mm	a x b mm	c mm	ΔΔ kg
1223.90	90	125	300	72	153	55 x 61	45	8
1223.105	105	130	300	72	153	57 x 62	45	8,5
1223.125	125	150	350	90	180	70 x 70	50	12,7
1223.150	150	210	460	107	210	85 x 85	56	21,5



1223.E Fitters fixed vices

- Similar to model 1223 but without swivel base.

	H mm	ΔΔ kg
1223.90E	130	6,5
1223.105E	130	7
1223.125E	152	10,5
1223.150E	182	18,7



1223.M Vice clamp sets

- To fit vices 1222 and 1223.
- Magnetically secured to vice.
- Material :
1223.M1 - 1223.M2 : Aluminium prism-face.
1223.M3 - 1223.M4 : Fibre-face.
1223.M5 - 1223.M6 : Rubber-face.
1223.M7 - 1223.M8 : Plastic-face.

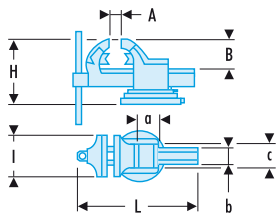
	L mm	ΔΔ g
1223.M1	125	200
1223.M2	150	240
1223.M3	125	200
1223.M4	150	240
1223.M5	125	200
1223.M6	150	240
1223.M7	125	70
1223.M8	150	85

M1 - M2

M3 - M4

M7 - M8

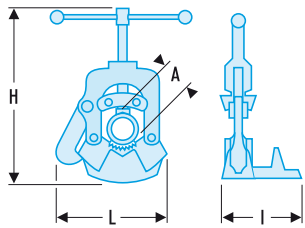
M5 - M6



283 Pipe vices

- Base, frame, lock and slide in ductile cast-iron.
- Semi-hard drawn steel screw with square thread.
- Special hardened steel jaw inserts.

	A mín. - máx. mm	"	L mm	H mm	I mm	ΔΔ kg
283.2	10 - 60	1/8 - 2	185	205	130	3,5
283.3	13 - 90	1/4 - 3	240	265	150	5,9

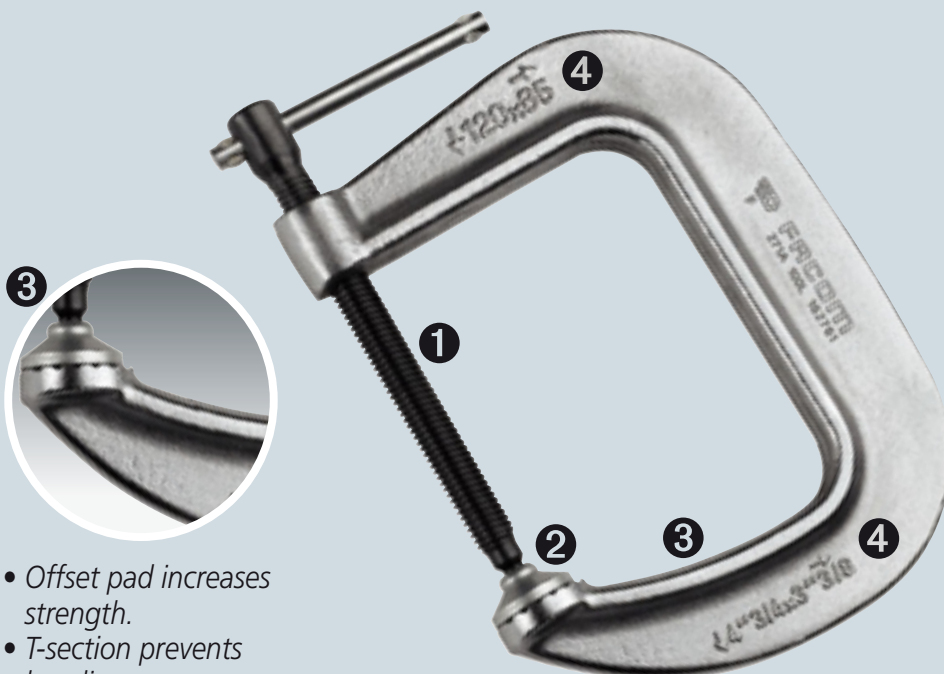


G-clamps



G-clamps

The features shown are designed for intensive use.



- Offset pad increases strength.
- T-section prevents bending.



- Double-threaded screw
- Strength.
- Speed of opening.



- Zinc-plated swivel shoe.



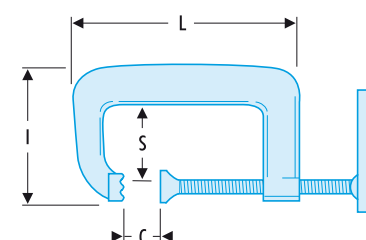
- Throat clearances marked in millimetres and inches.



271A Compact G-clamp

- Capacity : 0 to 250 mm and 0 to 9 7/8".
- Zinc finish, burnished screw.

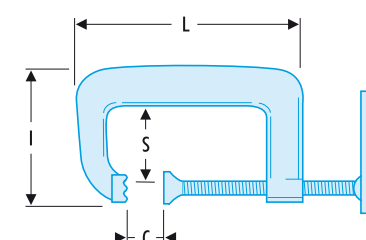
	C max mm	S mm	I mm	L mm	ΔΔ kg
271A.40	40	42	75	100	0,3
271A.60	60	57	98	130	0,51
271A.80	80	67	115	167	0,81
271A.100	100	77	131	192	1,17
271A.120	120	88	148	223	1,68
271A.150	150	98	162	262	1,98
271A.200	200	108	185	320	3,24
271A.250	250	118	202	380	3,95



271A.L Deep-throat G-clamp

- Capacity : 0 to 150 mm and 0 to 5 7/8".
- Zinc finish, burnished screw.

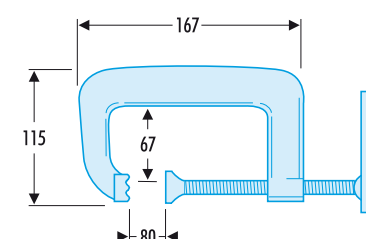
	C max mm	S mm	I mm	L mm	ΔΔ kg
271A.80L	80	88	147	186	1,37
271A.100L	100	103	169	212	1,83
271A.120L	120	113	186	244	2,66
271A.150L	150	133	213	288	3,32



Arc-welding G-clamp

271A.80S

- Capacity : 0 to 80 mm and 0 to 3 1/8".
 - Copper-plated screw and brass bolt for earth connection.
 - Zinc finish.
- ΔΔ : 920 g.

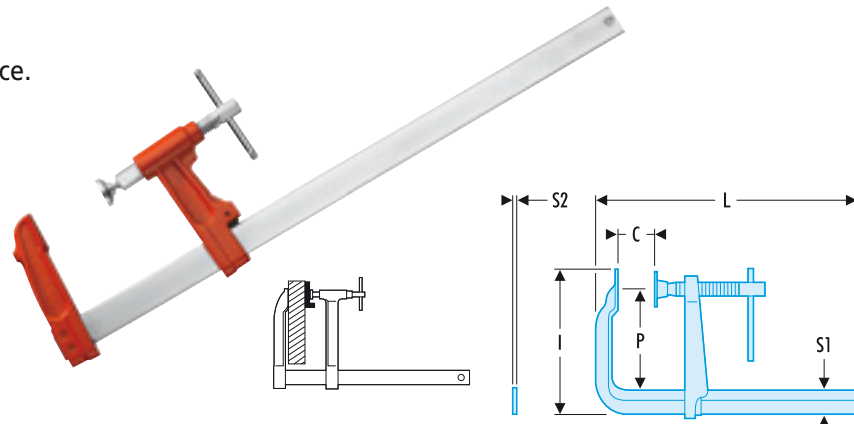


► Bar clamps

272A Pump-action bar clamp

- Capacity : 0 to 1,500 mm.
- Pump allows precision clamping without rotation.
- Hardened bar with edge notches for positive lock. Ball-joint swivel face.
- Paint finish, zinc-plated bar.

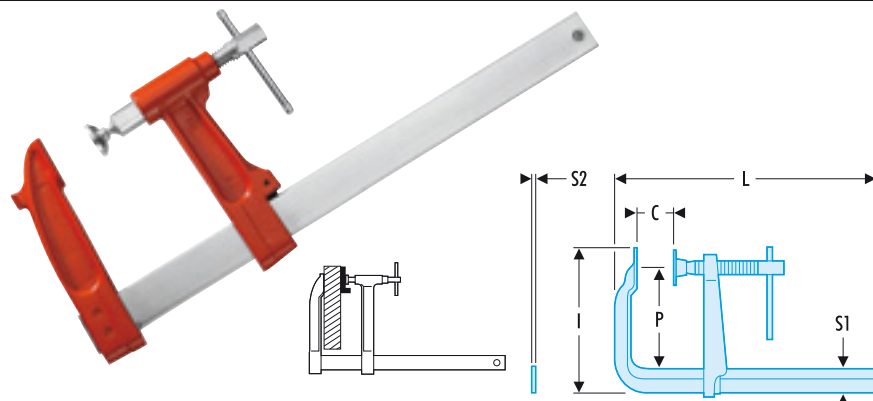
	C max mm	S1 x S2 mm	P mm	I mm	L mm	ΔΔ kg
272A.300	300	30 x 8	80	150	370	1,7
272A.400	400	30 x 8	80	150	470	1,9
272A.500	500	30 x 8	80	150	600	2,1
272A.600	600	35 x 9	100	180	680	2,9
272A.800	800	35 x 9	100	180	880	3,37
272A.1000	1000	35 x 9	100	180	1100	3,84
272A.1200	1200	35 x 9	100	180	1300	4,31
272A.1500	1500	35 x 9	100	180	1600	5



272L Deep-throat pump-action bar clamp

- Capacity : 0 to 1,000 mm.
- Throat depth : 150 mm.
- Similar to model 272A but with extended slide and top jaw for wider clamping requirements.

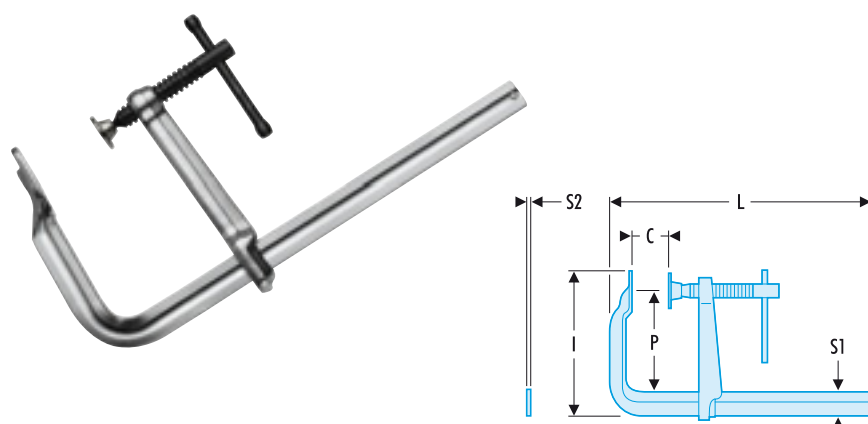
	C max mm	S1 x S2 mm	P mm	I mm	L mm	ΔΔ kg
272.300L	300	40 x 9	150	215	440	3
272.400L	400	40 x 9	150	215	540	3,3
272.600L	600	40 x 9	150	215	740	3,9
272.1000L	1000	40 x 9	150	215	1140	5,1



274 Screw-type 6,500 N bar clamps

- Capacity : 0 to 500 mm.
- Clamping force up to 6,500 N.
- Shaped hardened bar, forged top jaw and slide, square-thread screw for powerful clamping.
- 30° swivel face.
- Galvanized finish.

	C max mm	S1 x S2 mm	P mm	I mm	L mm	ΔΔ kg
274.200	200	19,5 x 9,5	100	150	250	0,72
274.300	300	25 x 12	140	190	360	1,6
274.400	400	25 x 12	120	170	460	1,65
274.500	500	25 x 12	120	170	560	2



275 Screw-type 12,000 N bar clamps

- Capacity : 0 to 1,000 mm.
- Clamping force up to 12,000 N.
- Wide-section bar and screw for powerful clamping up to 1.2 tonnes between top jaw and slide.
- 35° swivel face.
- Galvanized finish.

	C max mm	S1 x S2 mm	P mm	I mm	L mm	ΔΔ kg
275.300	300	30 x 15	140	180	350	2,8
275.500	500	30 x 15	120	180	560	3
275.800	800	30 x 15	120	180	880	4,2
275.1000	1000	30 x 15	120	180	1100	4,8

