

# Lever Benders



## 300 Series Plumbing Benders

- Designed to bend soft copper tubing to a maximum of 180°.
- Offset cushion grip handles eliminate knuckle cracking.

Cat. No.	Model No.	Capacity		Weight kg	Std. Pack
		Tube Size (Actual O.D.)	Bend Radius		
*36962	310	5/8"	2 1/4"	2,86	1
36972	312	3/4"	2 1/8"	3,13	1
36942	310M	10 mm	42 mm	1,81	1
36947	312M	12 mm	42 mm	1,81	1
36952	314M	14 mm	56 mm	2,86	1
36957	315M	15 mm	56 mm	2,86	1
*36962	316M	16 mm	56 mm	2,86	1
36967	318M	18 mm	72 mm	3,13	1

\* This product is dual-purpose, being both inch and metric.



## 400 Series Instrument Benders

- Designed for bending copper, steel and stainless steel ( $\leq 1,5$  mm thickness) to a maximum of 180°.
- Features a unique oil absorbing shoe for minimal bending effort.
- Offset cushion grip handles eliminate knuckle cracking.

Cat. No.	Model No.	Capacity		Weight kg	Std. Pack
		Tube Size (Actual O.D.)	Bend Radius		
36117	403	3/16"	5/8"	0,68	1
36122	404	1/4"	5/8"	0,68	1
*36092	405	5/16"	15/16"	1,18	1
36097	406	3/8"	15/16"	1,18	1
36132	408	1/2"	1 1/2"	2,45	1
36112	406M	6 mm	16 mm	0,68	1
*36092	408M	8 mm	24 mm	1,18	1
36102	410M	10 mm	24 mm	1,18	1
36127	412M	12 mm	38 mm	2,45	1

\* This product is dual-purpose, being both inch and metric.



## 500 Series Lever Benders

- Designed for bending stainless steel, titanium and other types of hard tubing to a maximum of 180°.
- A unique two-stage handle design and rollers in the bending handle combine to produce high quality bends with minimal bending effort.

Cat. No.	Model No.	Capacity		Weight kg	Std. Pack
		Tube Size (Actual O.D.)	Bend Radius		
51912	506	3/8"	15/16"	1,5	1
51917	508	1/2"	1 1/2"	2,7	1



## 456 Tribender

- Designed for bending three different sizes of soft copper tubing with the same tool to a maximum of 90°.

Cat. No.	Model No.	Capacity		Weight kg	Std. Pack
		Tube Size (Actual O.D.)	Bend Radius		
44852	456	1/4"	0,89"	0,4	1
		5/16"	0,98"		
		3/8"	1,14"		



## 370 Tubing Bender

- Designed for bending copper, aluminium, coated and stainless steel pipe and tubing up to maximum of 180°.
- Can be used by hand, mounted in a vice.
- Supplied in metal case complete with formers and slides.

Cat. No.	Model No.	Description	Weight kg	Std. Pack
30406	370	Bender Only	4,6	1
15321	370	12, 15, 18, 22 mm	13,2	1
15371	370	10, 12, 14, 16, 18, 20, 22 mm	15,5	1
15381	370	10, 12, 15, 18, 22 mm	13,8	1
29826	—	Metal Case	4,6	1

Cat. No.		Size O.D. mm	Bending Radius mm	Std. Pack
Former	Guide			
29536	29736	10	38	1
29546	29746	12	48	1
29556	29756	14	58	1
29566	29746	15	60	1
52122	29756	16	64	1
29616	29886	17	70	1
29586	29766	18	74	1
29593	29736	20	80	1
52142	29766	22	89	1



# No. 326 Ratchet Bender

Makes up to 90° bends in 10 mm to 22 mm soft copper and coated soft copper tubing, and 32 mm in multilayer tubing.



326-P

### Features

- Designed to bend soft copper and coated soft copper of 10 mm to 22 mm as well as multilayer tube up to 32 mm.
- Unique sliding mechanism places formers quickly in correct tube diameter position.

Cat. No.	Model No.	Description	Weight kg
18741	326	Bender with 10, 12, 14, 15, 16, 18, 22 mm copper Formers	3,85
35861	326-P	Bender with 16, 20, 25, 26, 32 mm multilayer Formers	3,22
19061	326	Bender with 3/8", 1/2", 5/8", 3/4", 7/8" copper formers	3,22
42096	—	Slide frame for copper Metric	0,65
43736	—	Slide frame for copper Imperial	
42826	—	Slide frame for multilayer	
18751	—	Bending Frame 16, 20, 26 mm multilayer Formers	
89106	—	Slide frame for 32 mm multilayer Formers	

### Accessories

Cat. No.	Capacity mm	Description	Bending Radius	Weight kg
<b>Formers for soft and soft coated copper</b>				
41976	10	10 mm Former	35 mm	0,05
41986	12	12 mm Former	40 mm	0,06
41996	14	14 mm Former	48 mm	0,07
42006	15	15 mm Former	50 mm	0,08
42016	16	16 mm Former	58 mm	0,08
42026	17	17 mm Former	60 mm	0,08
42036	18	18 mm Former	69 mm	0,09
42046	20	20 mm Former	76 mm	0,09
42056	22	22 mm Former	76 mm	0,10
43686	3/8"	3/8" Former	1 3/8"	0,05
43696	1/2"	1/2" Former	1 7/8"	0,06
43706	5/8"	5/8" Former	2 3/32"	0,08
43716	3/4"	3/4" Former	2 3/4"	0,09
43726	7/8"	7/8" Former	3 11/32"	0,10
<b>Formers for Multilayer Tubing</b>				
42016	16	16 mm Former	58 mm	0,08
42046	20	20 mm Former	76 mm	0,09
89086	25	25 mm Former	89 mm	0,10
42086	26	26 mm Former	91 mm	0,20
89096	32	32 mm Former	132 mm	0,20

# PB-28 Power Bender

Compact and portable machine suitable to bend pipes up to 28 mm with a bending angle of 0 to 180°.



### Features

- Designed to bend copper (soft as well as hard) and stainless steel with a bending angle from 0 to 180° for tube diameters of 12 mm to 28 mm.
- Also equipped to bend multilayer and steel pipes.
- Powerful 400 W motor.
- Only weighs 7,5 kg, easy portable and installable by one person.
- Supplied in metal case.

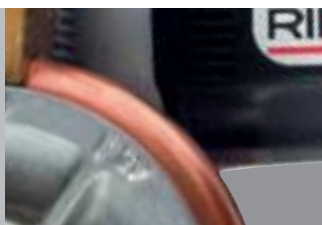
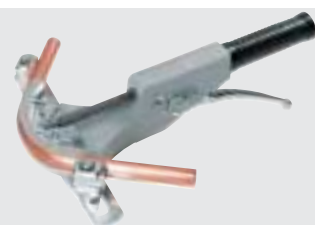
### Tube capacity

- Copper: 12 - 28 mm.
- 304 L stainless steel ( $\leq 1,5$  mm thickness): 12 - 28 mm.
- Gas pipe: 1/4" - 3/4".
- Multilayer:  $\leq 30$  mm.

Cat. No.	Model No.	Description	Weight kg
33921	PB-28	Power Bender, Formers and Guides 12-15-18-22 mm	17,5
34071	PB-28	Power Bender, Formers and Guides 12-14-16-18-22 mm	19,0
79286	—	Tripod	8,0
81916	—	Universal Roller*	—

\* Universal roller to be used with cast iron formers and rings on thick pipes ( $\geq 3$  mm) like gas pipes with diameter above 22 mm.

Cat. No.		Size O.D. mm	Bending Radius mm	Std. Pack
Former	Guide			
81716	81786	6	30	1
81726	81786	8	30	1
81316	79246	10	30	1
79176	79246-79276	12	36	1
79186	79256	14	42	1
79196	79276	15	45	1
79206	79256	16	48	1
81736	81796	17	51	1
79216	79266	18	54	1
81746	81796	20	60	1
79226	79266	22	66	1
81756	81806	24	72	1
81766	81816	25	71	1
79166	79236	28	112	1
81776	81826	30	84	1
<b>Rings Cast iron formers + rings (for gas pipe, large wall thickness)</b>				
81836	81876	1/4"	48,0	1
81846	81886	3/8"	53,5	1
81856	81896	1/2"	55,5	1
81866*	81906*	3/4"	71,0	1



# RIDGID® Hydraulic Benders

Manual and electro-hydraulic benders for precision cold bending of standard gas pipes up to 4". Versatile, portable benders, ideal for on-site bending as well as machine construction, boiler making and industrial applications in general. Available with open, tip-up or sliding wing, providing piston forces between 50 kN and 200 kN.

- Single circuit hydraulic system with return spring for better control of the ram and precise bending.
- Pressure relief valve protects the hydraulic system from over-pressurisation (electric models only).
- Supplied in a wooden case and delivered with a set of bending formers for standard gas pipe applications and corner supports.
- A wide range of accessories is available to cater for special bending applications.

## Open Wing Benders

For better overview of the bending process and superior accessibility.



Model 3802



Model 3802E

Cat. No.	Model No.	Capacity inch	Pump Force kN	Motor		Formers									Weight kg	Std. Pack	
				Volt	Kw	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"			4"
<b>Manually operated</b>																	
13701	3801	3/8 - 1 1/4	50	—	—	•	•	•	•	•	—	—	—	—	—	56	1
13711	3802	3/8 - 2	80	—	—	•	•	•	•	•	•	•	—	—	—	98	1
<b>Electro-hydraulic</b>																	
13721	3801E	3/8 - 1 1/4	50	230 V	1 PH	1,4	•	•	•	•	•	—	—	—	—	76	1
13731	3801E	3/8 - 1 1/4	50	400 V	3 PH	1,4	•	•	•	•	•	—	—	—	—	76	1
13741	3802E	3/8 - 2	80	230 V	1 PH	1,4	•	•	•	•	•	•	—	—	—	115	1
13751	3802E	3/8 - 2	80	400 V	3 PH	1,5	•	•	•	•	•	•	•	—	—	115	1

# Tip-Up Wing Benders

- Offers the added advantage of extra rigidity during the bending process.
- Ideal for on-site applications.



Model 3812



Model 3812E

Cat. No.	Model No.	Capacity inch	Pump Force kN	Motor		Formers										Weight kg	Std. Pack
				Volt	Kw	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"		
<b>Manually operated</b>																	
13671	3811	3/8 - 1 1/4	50	—	—	•	•	•	•	•	—	—	—	—	—	46	1
13681	3812	3/8 - 2	80	—	—	•	•	•	•	•	•	—	—	—	82	1	
13691	3813	3/8 - 3	130	—	—	•	•	•	•	•	•	•	—	—	182	1	
14921	3814	3/8 - 4	200	—	—	—	—	—	—	—	•	•	•	•	410	1	
27911	3814	3/8 - 4	200	—	—	•	•	•	•	•	•	•	•	•	420	1	
<b>Electro-hydraulic</b>																	
14871	3812E	3/8 - 2	80	115	1,4	•	•	•	•	•	•	—	—	—	100	1	
13761	3812E	3/8 - 2	80	230	1,4	•	•	•	•	•	•	—	—	—	100	1	
13771	3812E	3/8 - 2	80	400	1,5	•	•	•	•	•	•	—	—	—	100	1	
14881	3813E	3/8 - 3	130	115	1,4	•	•	•	•	•	•	•	—	—	208	1	
15001	3813E	3/8 - 3	130	230	1,4	•	•	•	•	•	•	•	•	—	208	1	
13781	3813E	3/8 - 3	130	400	1,5	•	•	•	•	•	•	•	•	—	208	1	
14931	3814E	3/8 - 4	200	230	1,4	—	—	—	—	—	•	•	•	•	440	1	
14941	3814E	3/8 - 4	200	400	1,5	—	—	—	—	—	•	•	•	•	440	1	

# Sliding Wing

Used for bending multiple bends in different angles.



Model 3812S

Cat. No.	Model No.	Capacity inch	Pump Force kN	Formers										Weight kg	Std. Pack
				3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"		
16401	3811S	3/8 - 1 1/4	50	•	•	•	•	•	—	—	—	—	—	46	1
16411	3812S	3/8 - 2	80	•	•	•	•	•	•	•	•	—	—	80	1

# Formers

## Formers for Standard Gas Pipe to DIN 2440 (BS 1387)



Cat. No.	Description	Size		Radius mm	Weight kg	Std. Pack
		inch	metric (O.D.)			
28286	Former for Gas Pipe	1/4	13,5	60	—	1
21806	Former for Gas Pipe	3/8	17,2	45	—	1
21816	Former for Gas Pipe	1/2	21,3	50	—	1
21826	Former for Gas Pipe	3/4	26,9	65	—	1
21836	Former for Gas Pipe	1	33,7	100	—	1
21846	Former for Gas Pipe	1 1/4	42,4	130	—	1
21856	Former for Gas Pipe	1 1/2	48,3	150	—	1
21866	Former for Gas Pipe	2	60,3	200	—	1
21876	Former for Gas Pipe	2 1/2	76,1	320	—	1
21886	Former for Gas Pipe	3	88,9	380	—	1
28756	Former for Gas Pipe	4	114,3	600	—	1

## Formers for Plastic Coated Pipe to DIN 2440 (BS 1387)



Cat. No.	Description	Size		Radius mm	Weight kg	Std. Pack
		inch	metric (O.D.)			
22276	Former for Plastic Coated Pipe	3/8	17,2	110	—	1
22286	Former for Plastic Coated Pipe	1/2	21,3	110	—	1
22296	Former for Plastic Coated Pipe	3/4	26,9	137	—	1
22306	Former for Plastic Coated Pipe	1	33,7	140	—	1
22316	Former for Plastic Coated Pipe	1 1/4	42,4	170	—	1
22326	Former for Plastic Coated Pipe	1 1/2	48,3	220	—	1
22336	Former for Plastic Coated Pipe	2	60,3	270	—	1

Note: For bending 2" plastic coated pipes, 3" capacity hydraulic benders must be used.

## Metric Formers for Standard Tube & Pipe to DIN 2440 (BS 1387)



Cat. No.	Description	Size		Radius mm	Weight kg	Std. Pack
		inch	metric (O.D.)			
27816	Former for Standard Tube & Pipe	—	18,0	60	—	1
27826	Former for Standard Tube & Pipe	—	20,0	70	—	1
27836	Former for Standard Tube & Pipe	—	22,0	80	—	1
22116	Former for Standard Tube & Pipe	—	25,0	115	—	1
35066	Former for Standard Tube & Pipe	—	28,0	70	—	1
22126	Former for Standard Tube & Pipe	—	30,0	140	—	1
22136	Former for Standard Tube & Pipe	—	32,0	140	—	1
35076	Former for Standard Tube & Pipe	—	35,0	100	—	1
22146	Former for Standard Tube & Pipe	—	38,0	170	—	1
35086	Former for Standard Tube & Pipe	—	40,0	125	—	1
35096	Former for Standard Tube & Pipe	—	42,0	125	—	1
22156	Former for Standard Tube & Pipe	—	44,5	190	—	1
35106	Former for Standard Tube & Pipe	—	50,0	140	—	1
22176	Former for Standard Tube & Pipe	—	51,0	220	—	1
22186	Former for Standard Tube & Pipe	—	57,0	250	—	1
22206	Former for Standard Tube & Pipe	—	63,5	270	—	1
22216	Former for Standard Tube & Pipe	—	70,0	315	—	1

NOTE: For bending stainless steel tubing special formers are available. Please refer to your RIDGID® stockist for more information.

## Formers for High Strength Tubing



Cat. No.	Description	Size		Radius mm	Weight kg	Std. Pack
		inch	metric (O.D.)			
22236	Former for High Strength Tubing	1/2	21,3	50	—	1
22246	Former for High Strength Tubing	3/4	26,9	65	—	1
22256	Former for High Strength Tubing	1	33,7	100	—	1
22266	Former for High Strength Tubing	1 1/4	42,4	130	—	1
22166	Former for High Strength Tubing	1 1/2	48,3	150	—	1
22196	Former for High Strength Tubing	2	60,3	200	—	1
22226	Former for High Strength Tubing	2 1/2	76,1	320	—	1

## Formers for 180° Bending



Cat. No.	Description	Size		Radius mm	Weight kg	Std. Pack
		inch	metric (O.D.)			
22376	Former for 180° Bending	3/8	17,2	130	—	1
22386	Former for 180° Bending	1/2	21,3	130	—	1
22396	Former for 180° Bending	3/4	26,9	130	—	1
22406	Former for 180° Bending	1	33,7	130	—	1
22416	Former for 180° Bending	1 1/4	42,4	130	—	1
22426	Former for 180° Bending	1 1/2	48,3	140	—	1
28766	Former for 180° Bending	2	60,3	200	—	1

Note: Formers for 180° bending to be used with 180° bending attachment.

## Accessories

Cat. No.	Description	Weight kg	Std. Pack
22346	180° Bending Attachment for 3812 (1 1/2 max.)	17	1
22356	180° Bending Attachment for 3813 (2 max.)	17	1
22366	180° Bending Attachment for 3802 (1 1/2 max.)	17	1

## Former for 180° Bending on Flat Bars (max. 40 mm x 8 mm)



Cat. No.	Description	Radius mm	Weight kg	Std. Pack
22466	Former for Flat Bar for 180° Bending	60	2,0	1
22476	Former for Flat Bar for 180° Bending	70	2,5	1
22486	Former for Flat Bar for 180° Bending	80	3,0	1
22496	Former for Flat Bar for 180° Bending	90	4,0	1
22506	Former for Flat Bar for 180° Bending	100	4,0	1
22516	Former for Flat Bar for 180° Bending	110	5,5	1
22526	Former for Flat Bar for 180° Bending	120	6,0	1
22536	Former for Flat Bar for 180° Bending	130	7,0	1

Note: Formers for 180° bending of flat bars to be used with 180° flat bar bending attachment.

## Accessories

Cat. No.	Description	Weight kg	Std. Pack
22436	180° Bending Attachment for 3812	—	1
22446	180° Bending Attachment for 3802	—	1
22456	180° Bending Attachment for 3813	—	1

# Accessories

## Accessories for 1 1/4" Cap. Hydraulic Benders



Cat. No.	Description	Weight kg	Std. Pack
26896	Stroke Adjuster 3801E / 3811E 230 V	4,50	1
26906	Stroke Adjuster 3801E / 3811E 400 V	1,50	1
21966	Corner Supports 3811	3,00	1
21976	Corner Supports 3801	1,50	1
22016	Fixing Pin 3811	0,50	1
22026	Fixing Pin 3801	1,00	1
27846	Bending Frame 3811	6,50	1
28796	Bending Frame 3801	14,65	1
28846	Wooden Case 3801 / 3811	10,60	1
28876	Wooden Case 3801E	18,00	1

## Accessories for 2" Cap. Hydraulic Benders

Cat. No.	Description	Weight kg	Std. Pack
26916	Stroke Adjuster 3802E / 3812E 230 V	4,50	1
26926	Stroke Adjuster 3802E / 3812E 400 V	3,50	1
21986	Corner Supports 3812	3,26	1
21996	Corner Supports 3802	5,50	1
22036	Fixing Pin 3812	0,44	1
22046	Fixing Pin 3802	2,00	1
28806	Bending Frame 3812	13,00	1
28816	Bending Frame 3802	29,50	1
28856	Wooden Case 3802/3812	13,60	1
28876	Wooden Case 3802E / 3812E	18,00	1

## Accessories for 3" Cap. Hydraulic Benders

Cat. No.	Description	Weight kg	Std. Pack
26916	Stroke Adjuster 3813E 230 V	4,50	1
26926	Stroke Adjuster 3813E 400 V	3,50	1
22006	Corner Supports 3813	10,00	1
22826	Bending Frame 3813	36,50	1
28866	Wooden Case 3813	21,00	1
28886	Wooden Case 3813E	29,00	1
27696	Extension for 3"	—	—

## Accessories for 4" Cap. Hydraulic Benders

Cat. No.	Description	Weight kg	Std. Pack
29126	Stroke Adjuster 3814E 230 V	4,56	1
29116	Stroke Adjuster 3814E 400 V	4,56	1
28776	Corner Supports 3814E / 2"	5,50	1
28786	Corner Supports 3814E / 4"	19,00	1
28836	Bending Frame 3814	124,00	1
28896	Wooden Case 3814	65,00	1

## Accessories for all RIDGID® Hydraulic Benders



Cat. No.	Description	Weight kg	Std. Pack
14031	Turnable Tripod (not suitable for electric)	7,50	1
14061	2,5 l Hydraulic Oil	2,50	1
21896	Straightener	1,00	1