

RIDGID

BENDING & FORMING

A wide selection from a single source, with exclusive features and durable designs for maximum productivity.



Lever Benders

Model 300 Series Plumbing Benders

- Designed to bend soft copper tubing to a maximum of 180°.
- Offset cushion grip handles and a 90° start angle, together with a specially engineered plastic shoe, combine to ease bending effort.



Catalog No.	Model No.	Description	Capacity		Weight	
			Tube Size (actual O.D.)	Bend Radius	lb.	kg
36962*	310	Plumbing Bender	5/8"	2 1/4"	6.5	2,86
36972	312	Plumbing Bender	3/4"	2 7/8"	7	3,13
36942	310M	Plumbing Bender	10 mm	42 mm	4	1,81
36947	312M	Plumbing Bender	12 mm	42 mm	4	1,81
36952	314M	Plumbing Bender	14 mm	56 mm	6.5	2,86
36957	315M	Plumbing Bender	15 mm	56 mm	6.5	2,86
36962*	316M	Plumbing Bender	16 mm	56 mm	6.5	2,86
36967	318M	Plumbing Bender	18 mm	72 mm	7	3,13

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

Model 400 Series Instrument Benders

- Combine accuracy with easy operation.
- Designed for bending copper, steel and stainless ($\leq 1,5$ mm) to a maximum of 180°.
- Offset cushion grip handles for comfort when forming 180° bends. A 90° start angle and unique oil-absorbing shoe minimize bending effort while forming accurate bends in copper and steel tubing.



Catalog No.	Model No.	Description	Capacity		Weight	
			Tube Size (actual O.D.)	Bend Radius	lb.	kg
36117	403	Instrument Bender	3/16"	5/8"	1.5	0,86
36122	404	Instrument Bender	1/4"	5/8"	1.5	0,86
36092*	405	Instrument Bender	5/16"	5/16"	2.75	1,18
36097	406	Instrument Bender	3/8"	5/16"	2.75	1,18
36132	408	Instrument Bender	1/2"	1 1/2"	5.5	2,45
36112	406M	Instrument Bender	6 mm	16 mm	1.5	0,68
36092*	408M	Instrument Bender	8 mm	24 mm	2.75	1,18
36102	410M	Instrument Bender	10 mm	24 mm	2.75	1,18
36127	412M	Instrument Bender	12 mm	38 mm	5.5	2,45

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



Model 456 Tri-Bender

- Designed to easily bend three different sizes of soft copper tubing: 1/4", 5/16" and 3/8" with the same tool. Ideal for plumbing and HVAC applications.
- A 90° start angle minimizes effort required to form a bend. Handy reference marks indicate the angle for quick bends through 90°.

Catalog No.	Model No.	Description	Capacity	Weight	
				lb.	kg
44852	456	Tri-Bender	1/4", 5/16", 3/8"	14	0,4

Model 600 Series Heavy-Duty Instrument Benders

- The 'stainless steel' specialist!
- High quality bending performance on stainless steel, and other hard tubing such as steel and titanium.
- Two stage design allows for in-place bending from 90° to 180° without ever crossing handles. Lock/unlock with a half turn rotation of the bending handle.
- Extra long 16" (40 cm) handles increase leverage and roll dies in the bending form reduce force needed.
- Vice clamp built into bending form for extra stability.



Catalog No.	Model No.	Description	Capacity		Weight	
			Tube Size (actual O.D.)	Bend Radius	lb.	kg
38028	603	Heavy-Duty Instrument Bender	3/16"	5/8"	1.68	0,76
38033	604	Heavy-Duty Instrument Bender	1/4"	5/8"	1.68	0,76
38038*	605	Heavy-Duty Instrument Bender	5/16"	15/16"	4	1,84
38043	606	Heavy-Duty Instrument Bender	3/8"	15/16"	4	1,84
38048	608	Heavy-Duty Instrument Bender	1/2"	1 1/2"	6	2,76
38053	606M	Heavy-Duty Instrument Bender	6 mm	16 mm	1.68	0,76
38038*	608M	Heavy-Duty Instrument Bender	8 mm	24 mm	4	1,84
38058	610M	Heavy-Duty Instrument Bender	10 mm	24 mm	4	1,84
38063	612M	Heavy-Duty Instrument Bender	12 mm	38 mm	6	2,76

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

Tube Expanders

Expander Only



Expander Sets

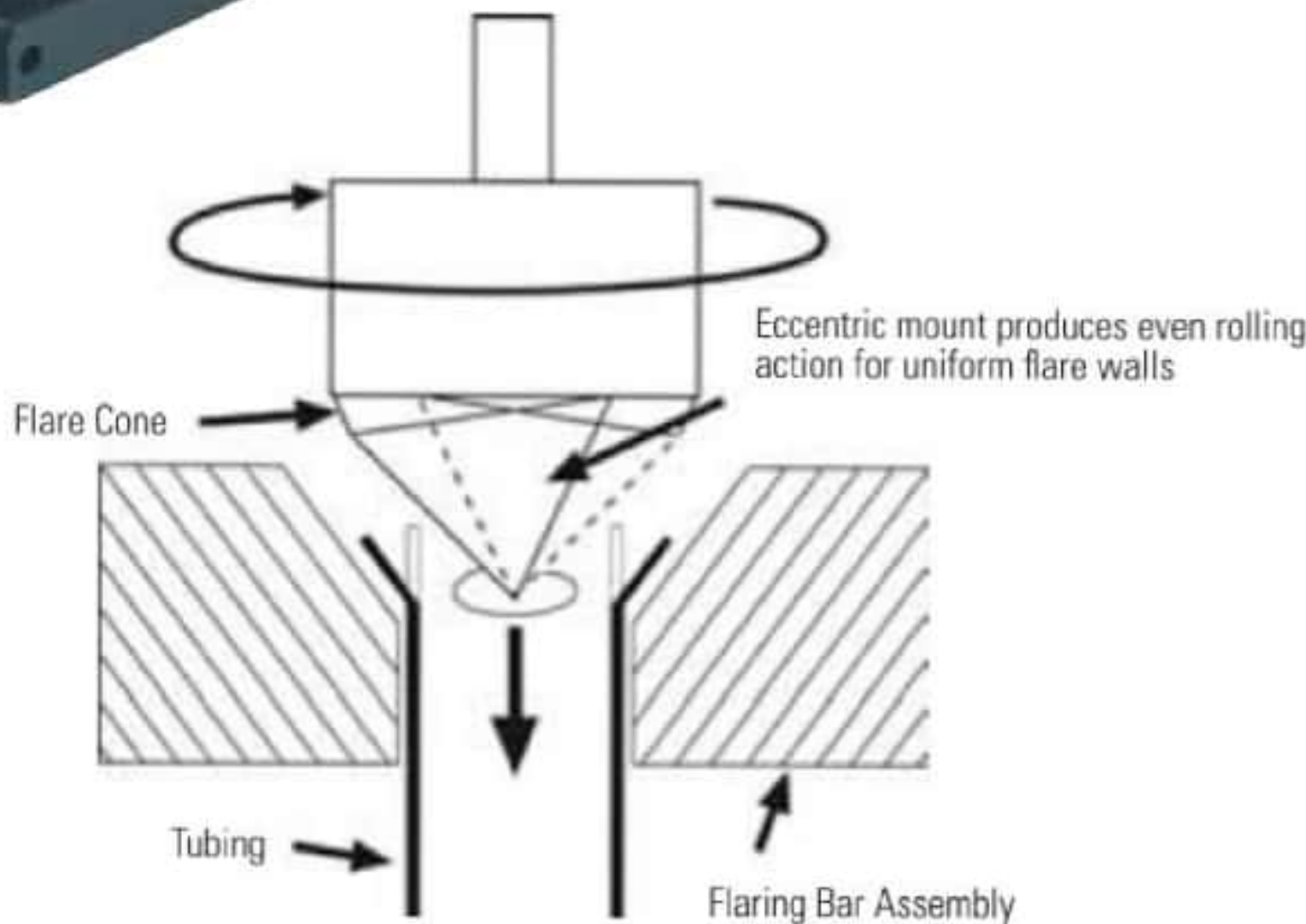


- Hand-operated, single-stage expander is designed to expand tubing for fast, accurate joints in soft copper, aluminium, and soft steel tube without using fittings.
- Free-floating and self-centering expander mechanism. Expander segments are made from high-quality hardened steel.

Catalog No.	Model No.	Description	Weight		Std. Pack
			lb.	kg	
15071	S	Tube Expander Tool	1.54	0,70	1

Catalog No.	Model No.	Description	Weight		Std. Pack
			lb.	kg	
10411	A	Expander Set 12, 15, 18, 22 mm	7	3,2	1
15181	T	Expander Set 12, 14, 16, 18, 22 mm	5.5	2,5	1
16051	U	Expander Set 12, 15, 22, 28 mm	5.5	2,5	1
16971	W	Expander Set 12, 14, 16, 18, 22, 28, 32, 40 mm	9.5	4,3	1
17411	X	Expander Set 3/8", 1/2", 5/8", 3/4", 7/8", 1 1/8"	7	3,2	1
58747	—	Case	—	—	—

Flaring Tools



Model 458R Ratchet Flaring Tool

- This precision tool provides smooth, uniform flares with minimum effort.
- The new ratcheting feed screw handle turns easily and requires less motion and effort than a standard handle.
- Hardened steel flaring cone, eccentrically mounted in needle bearings, produces rolling action for even metal flow, giving uniform flare walls without galling.

Catalog No.	Model No.	Description	Size (in.)	Weight		Std. Pack
				lb.	kg	
83037	458 R	45° SAE Flares	1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4	3 1/2	1,6	1
41295	454-W	45° SAE-Nominal Water Tube	3/8, 1/2, 3/4, 1	6 1/4	2,8	1
41300	455	45° SAE Flares	1/2, 5/8, 3/4, 7/8, 1	6 3/4	3,1	1
41162	377	37° SAE Flares	3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4	3 1/2	1,6	1
41285	375	37° SAE Flares	1/2, 5/8, 3/4, 7/8, 1	6 3/4	3,1	1
Metric Model			Sizes (mm)			
50257	458MM*	45° SAE Flares	4 - 4,75 - 6 - 8 - 10 - 15 - 16	3 1/2	1,6	1

* Model 458MM doesn't feature a ratchet.

All flaring tools listed are recommended for soft materials such as aluminum and soft copper. Model 454W, Model 455 and Model 375 will also flare steel, stainless steel, hard copper and brass. Model 458R, Model 458MM and Model 377 will flare steel, stainless steel, hard copper, and brass thru wall thickness of .035" (0,9 mm) inches.



Model 345 Standard Flaring Tool

- Model 345 is a precision designed tool for producing 45° flares in soft copper, brass, aluminum and mild steel tubing.
- A hardened, smooth cone provides fast, 45° flares either single or double lap.
- A single clamp screw provides for easy clamping and removal of tubing.

Catalog No.	Model No.	Description	Size (in.)	Weight		Std. Pack
				lb.	kg	
23332	345	45° SAE Flares	$\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{5}{8}$	2 $\frac{3}{4}$	1,2	1
23337	345-DL	45° SAE-(double flares)	Above w/adapters for double lap flares; $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ O.D. Tubing.	3	1,3	1

Tip-Up Wing Bende

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



Catalog No.	Model No.	Capacity in.	Pump Force kN	Volt	Motor	Kw	Formers										Weight		
							3/8	1/2	3/4	1	1¼	1½	2	2½	3	4	lb.	kg	
Manually operated																			
40383	HB382	3/8 - 1¼	90	—		—	•	•	•	•	•	—	—	—	—	—	134.5	61	
36518	HB382	3/8 - 2	90	—		—	•	•	•	•	•	•	•	—	—	—	158.7	72	
36523	HB383	3/8 - 3	146	—		—	•	•	•	•	•	•	•	•	•	—	344.0	156	
14921	3814	3/8 - 4	200	—		—	—	—	—	—	—	—	•	•	•		904.0	410	
27911	3814	3/8 - 4	200	—		—	•	•	•	•	•	•	•	•	•	•	926.0	420	
Electro-hydraulic																			
14871	3812E	3/8 - 2	80	115	1 PH	1,4	•	•	•	•	•	•	•	•	—	—	—	220.4	100
39243	HB382E	3/8 - 2	90	230	1 PH	1,4	•	•	•	•	•	•	•	•	—	—	—	211.6	96
13771	3812E	3/8 - 2	80	400	3 PH	1,5	•	•	•	•	•	•	•	•	—	—	—	220.4	100
14881	3813E	3/8 - 3	130	115	1 PH	1,4	•	•	•	•	•	•	•	•	•	•	—	458.5	208
39268	HB383E	3/8 - 3	146	230	1 PH	1,4	•	•	•	•	•	•	•	•	•	•	—	401.2	182
13781	3813E	3/8 - 3	130	400	3 PH	1,5	•	•	•	•	•	•	•	•	•	•	—	458.5	208
14931	3814E	3/8 - 4	200	230	1 PH	1,4	—	—	—	—	—	—	—	•	•	•		970.0	440
14941	3814E	3/8 - 4	200	400	3 PH	1,5	—	—	—	—	—	—	—	•	•	•		970.0	440

Sliding Wing Benders

Used for bending multiple bends in different angles.

Catalog No.	Model No.	Capacity in.	Pump Force kN	Formers										Weight	
				$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	4	lb.	kg
16401	3811S	$\frac{3}{8}$ - 1 $\frac{1}{4}$	50	•	•	•	•	•	—	—	—	—	—	101.4	46
16411	3812S	$\frac{3}{8}$ - 2	80	•	•	•	•	•	•	•	—	—	—	176.3	80

