



## Benders

### 300 SERIES PLUMBING BENDERS

- Designed to bend 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
- 300 series lever benders form smooth bends in soft (K & L) copper tubing

### 400 SERIES INSTRUMENT BENDERS

- Offset cushion grip handles eliminate knuckle cracking when forming 180° bends
- A 90° start angle and unique oil absorbing shoe minimize bending effort while forming accurate bends in copper, steel and stainless steel tubing



Model No.	Cat. No.	Mfg. No.	Description	Capacity Tube Size (Actual O.D.)	Bend Radius	Weight		Price /Each
						lbs.	kg	
TJX773	36962*	310	Lever Bender	5/8"	2 1/4"	6 1/2	2.95	
TJX777	36972	312	Lever Bender	3/4"	2 7/8"	7	3.18	
TJX763	36942	310M	Lever Bender	10 mm	42 mm	4	1.81	
TJX766	36947	312M	Lever Bender	12 mm	42 mm	4	1.81	
TJX768	36952	314M	Lever Bender	14 mm	56 mm	6 1/2	2.95	
TJX771	36957	315M	Lever Bender	15 mm	56 mm	6 1/2	2.95	
TJX773	36962*	316M	Lever Bender	16 mm	56 mm	6 1/2	2.95	
TJX775	36967	318M	Lever Bender	18 mm	72 mm	7	3.18	
TR150	36117	403	Lever Bender	3/16"	5/8"	1 1/2	0.68	
TR151	36122	404	Lever Bender	1/4"	5/8"	1 1/2	0.68	
TR152	36092*	405	Lever Bender	5/16"	15/16"	2 3/4	1.25	
TR153	36097	406	Lever Bender	3/8"	15/16"	2 3/4	1.25	
TR154	36132	408	Lever Bender	1/2"	1 1/2"	5 1/2	2.50	
TR155	36112	406M	Lever Bender	6 mm	16 mm	1 1/2	0.68	
TR157	36102	410M	Lever Bender	10 mm	24 mm	2 3/4	1.25	
TR158	36127	412M	Lever Bender	12 mm	38 mm	5 1/2	2.50	

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

## 456 Tri-Benders

- Designed to easily bend three different sizes of soft 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°



Model No.	Cat. No.	Mfg. No.	Capacity	Weight		Price /Each
				oz.	kg	
QG054	44852	456	1/4", 5/16", 3/8"	14	0.4	

## Geared Ratchet Lever-Type Tube Benders

- High geared mechanical ratios; bend heavy-wall steel tube (up to 1/8" wall thickness), stainless steel tube (up to 3/32" wall thickness), and hard copper water tube (types K and L)
- Produce uniform bends up to 180°, with no need to anneal tubing or use of special temper grade tubing



Model No.	Cat. No.	Mfg. No.	Radius to Center of Tube		Tube O.D.		Weight		Price /Each
			in.	mm	in.	mm	lbs.	kg	
TR083	35170	358	3	76	5/8	16	7 1/2	3.4	
TR084	35175	368	3 3/4	95	3/4	19	13 1/2	6.1	
TR085	35180	378	3 3/4	95	7/8	22	13 1/2	6.1	

## Heavy-Wall Conduit Benders

- Designed for the larger sizes of heavy-wall conduit
- Hardened teeth for slip-resistant grip
- Extra-long supporting socket minimizes handle breakage
- Notch in radius protects conduit threads



Model No.	Cat. No.	Mfg. No.	Capacity		Weight		Price /Each
			in.	mm	lbs.	kg	
TR086	35230	B-1709	1/2	12	2 5/8	1.2	
TR087	35235	B-1711	1/2, 3/4	12, 19	2 3/4	1.3	
TR088	35240	B-1712	1, 1 1/4	25, 32	7 3/4	3.5	

Note: Handles not included.

## Thin-Wall Conduit Benders

- Made of cast iron
- Exceptionally smooth side walls which grip conduit snugly to minimize distortion
- Bending grooves conform to Standard Code Radii
- Marks indicate 30°, 45°, 60° and 90° bends



Model No.	Cat. No.	Mfg. No.	Description	Weight		Price /Each
				lbs.	kg	
TV097	35215	B-1677	Bends 1/2" (12 mm) Thin-Wall Conduit to 4" (100 mm) Inside Radius	2 1/2	1.1	
TJX485	35220	B-1678	Bends 3/4" (19 mm) Thin-Wall and 1/2" (12 mm) Heavy-Wall Conduit to 5" (127 mm) Inside Radius	4 1/2	2.0	
TJX487	35225	B-1679	Bends 1" (25 mm) Thin-Wall and 3/4" (19 mm) Heavy-Wall Conduit to 6 1/2" (165 mm) Inside Radius	8 1/2	3.9	