

HAND TOOLS

Pipe Flaring Tools, Groovers & Augers

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Tube Flaring & Swaging Tools

Handheld Tube Flaring are gripped with one hand while turning their flaring cone handle with the other hand. They create a funnel-shaped end (flare) that forms a tight joint with a flared tube fitting, eliminating the need for brazing or soldering. Tools are commonly used to connect refrigerant tubing in mini-split systems. **Hammer-Driven Tube Swaging** are struck on their shank to thrust their tapered shaft into the end of tubing to widen it. These punch-style swagers enlarge the tube so it slides over another tube of the same diameter. The two lengths of tubing connect without using fittings; connection is brazed to form a permanent joint. **Hammer-Driven Tube Flaring** is struck on the shank to form flares more quickly but less precisely than hand-turn tools. It creates a funnel-shaped end (flare) that forms a tight joint with a flared tube fitting, eliminating the need for brazing or soldering. Tool is commonly used to connect refrigerant tubing in mini-split systems.

Material Application	Flare Type	Compatible Tube Size	Maximum Wall Thickness	No. of Sizes	Brand	Item No.		
Hammer-Driven Tube Flaring Tools								
Eccentric Cone Type								
Aluminum, Brass, Copper	Single 45 Degree	3/8 in, 1/4 in, 5/16 in, 3/8 in, 1/2 in, 5/8 in, 3/4 in	0.042 in	7	Yellow Jacket	38D893		
Aluminum, Brass, Steel, Copper	Single 37 Degree	3/8 in, 1/4 in, 5/16 in, 3/8 in, 1/2 in, 5/8 in, 3/4 in	0.035 in	7	RIDGID	25XD33		
	Single 45 Degree	1/8 in, 3/16 in, 1/4 in, 5/16 in, 3/8 in, 1/2 in, 5/8 in, 3/4 in	0.035 in	8	RIDGID	4A519		
Aluminum, Copper	Single 45 Degree	3/8 in, 1/4 in, 5/16 in, 3/8 in, 1/2 in, 5/8 in, 3/4 in	0.035 in	7	RIDGID	1ATK0		
	Single 45 Degree	3/8 in, 1/4 in, 5/16 in, 3/8 in, 1/2 in, 5/8 in, 3/4 in	0.00167 in	7	Blackmax	406D65		
Aluminum, Brass, Copper	Single 45 Degree	3/8 in, 1/4 in, 5/16 in, 3/8 in, 1/2 in, 5/8 in, 3/4 in	0.065 in	7	Jb Industries	35YX39		
	Single 45 Degree	3/8 in, 1/4 in, 5/16 in, 3/8 in, 1/2 in, 5/8 in, 3/4 in	0.035 in	7	Imperial	3KE47		
Faceted Cone Type								
Roller Cone Type								
Aluminum, Copper, Stainless Steel, Steel	Single 37 Degree	3/4 in, 1/2 in, 1 in, 1 1/4 in	0.083 in	4	Imperial	3XTW1		
Swivel Cone Type								
Aluminum, Brass, Copper	45° Single Lap	3/8 in, 1/4 in, 5/16 in, 3/8 in, 1/2 in, 5/8 in, 3/4 in	0.039 in	7	Westward	3CYV1		
	45° Single Lap	3/8 in, 1/4 in, 5/16 in, 3/8 in, 1/2 in, 5/8 in, 3/4 in	0.065 in	6	Westward	3CYR7		
	Double 45 Degree	3/8 in, 1/4 in, 5/16 in, 3/8 in, 1/2 in, 5/8 in, 3/4 in	0.065 in	7	Westward	3CYN8		
	Single 45 Degree	1/8 in, 3/16 in, 1/4 in, 5/16 in, 3/8 in, 1/2 in, 5/8 in, 3/4 in	0.042 in	8	Yellow Jacket	12H951		
	Single 45 Degree	3/8 in, 1/4 in, 5/16 in, 3/8 in, 1/2 in, 5/8 in, 3/4 in	0.035 in	7	Imperial	6X859		
	Single 45 Degree	3/8 in, 1/4 in, 5/16 in, 3/8 in, 1/2 in, 5/8 in, 3/4 in	0.04 in	7	Yellow Jacket	38D890		
	Single 45 Degree	3/8 in, 1/4 in, 5/16 in, 3/8 in, 1/2 in, 5/8 in, 3/4 in	0.04 in	7	Yellow Jacket	38D891		
Aluminum, Brass, Copper, Steel	Single 45 Degree	3/8 in, 1/4 in, 5/16 in, 3/8 in, 1/2 in, 5/8 in, 3/4 in	0.04 in	6	Rothenberger	53RE78		
Compatible Tube Size								
Hammer-Driven Tube Swaging Tools								
		3/8 in, 1/4 in, 5/16 in, 3/8 in, 1/2 in, 5/8 in, 3/4 in			6	5 1/4 in	Yellow Jacket	38D895
		3/8 in, 1/4 in, 5/16 in, 3/8 in, 1/2 in, 5/8 in, 3/4 in			6	5 1/4 in	Imperial	5MK32
		3/8 in, 1/4 in, 5/16 in, 3/8 in, 1/2 in, 5/8 in, 3/4 in			6	6 3/8 in	Westward	3CYR8
		1/4 in			1	5 in	RIDGID	25XD03
Material Application								
Hammer-Driven Tube Flaring Tools								
Aluminum, Brass, Steel, Copper	Single 45 Degree	3/4 in	0.035 in	5	RIDGID	25XD13		



Roll Groovers

These roll groovers create a slot around the edge of pipe to connect two lengths with a grooved coupling. The coupling seats into the grooves and forms a strong, mechanical joint that brings pipe into alignment, eliminates the need for welding, and withstands vibration. Tools are commonly used to join pipe in sprinkler systems and discharge lines.

For Pipe Size	Grooving Capacities	Compatible Threader Series	Brand	Mfr. Model	Item No.
Roll Groovers					
Combination Roll Groovers					
1 1/4 to 2 in Sch. 40 Stainless Steel, 1 1/4 to 6 in Sch. 10, 1 1/4 to 6 in Sch. 10 and Sch. 40 Steel/Aluminum/PVC, 2 to 8 in Copper (Type K/DWV/LM)					
1 1/4 in to 6 in		Ridgid Model 300	RIDGID	975	3ARC8
Hydraulic Roll Groovers					
1 to 12 in Sch. 10 Steel/Stainless Steel, 1 to 2 in Sch. 40 Stainless Steel, 1 1/2 in to 8 in Sch. 40 Steel/PVC, 2 1/2 to 4 in Sch. 80 PVC, 2 to 6 in Copper (K/DWV/LM)					
1 in to 12 in		Ridgid Model 300	RIDGID	918-1	4CPD7
Manual Roll Groovers					
1 1/4 to 1 1/2 in and 2 to 6 in AWWA Roll Sets, 1 1/4 to 3 in Sch. 40 Steel and Stainless Steel, 1 1/4 to 6 in Sch. 10 Steel and Stainless Steel, 1 in Sch. 10/40 Steel, 2 to 6 in Copper (Type K/DWV/LM)					
1 1/4 in to 6 in		Ridgid Model 300	RIDGID	916	2RPC2
2 in to 6 in		Ridgid Model 300	RIDGID	915	1ED99
2 in to 6 in	2 to 6 in DIN EN 10255 Standard Steel Pipe	—	Rothenberger	100000212	60PZ79
Compatible Groover		Product Type	Mfr. Model	Item No.	
RIDGID Accessories					
915	Drive and Roll Set	92437	25XE59		
	Tool Box	93497	1EZ10		
918	Diameter Tape	76822	25XE51		
	Ball Bearing	44760	35HY30		
918-1	Wheel	53052	25XE38		
	Spring	44915	25XA38		



Drain Cleaners & Manual Augers

Drain cleaners and manual augers insert into drain lines to clear clogs without using chemicals. They restore flow through the drain by breaking up and pulling out blockages. **Hand-Spin Drain Cleaners** feed their flexible, kink-resistant cable into drain lines where it bends around curves and works through traps. These hand spinners are commonly used to clear hair, sludge, and residues from sink, tub, and shower drains. **Manual Augers** push their flexible, kink-resistant cable into toilet or urinal trapways to clear solid waste, wipes, feminine hygiene products, and other blockages. Sliding the cable back and forth drives the cable head through the blockage to break it up. A protective sleeve at the base of the pole prevents scratches on the fixture. **Drain Sticks** slide their semi-flexible shaft into drain lines and clean out hair, sludge, and residues between the drain opening and the end of the trap. They clear short runs of pipe in sinks, tubs, and showers that don't require the extra flexibility or extended reach of a hand-spin drain cleaner.

Cable Length	Cable Diameter	Cable Feed Type	End Type Included	Additional Features	Brand	Item No.	
Hand-Spin Drain Cleaners							
Bathrooms, Showers, Sinks							
25 ft	1/4 in	Auto-Feed	Bulb Head	—	Milwaukee	784P49	
Drain Lines							
25 ft	1/4 in	Manual	Bulb Head	Power Drill Compatible	RIDGID	487R79	
25 ft	3/8 in	Manual	Bulb Head	—	RIDGID	4CX13	
Sinks, Toilets							
20 ft		Manual	Bulb Head	—	Westward	6ATX9	
25 ft	3/8 in	Auto-Feed	Bulb Head	—	Westward	6ATY1	
Manual Augers							
Showers, Urinals							
4 ft	3/8 in	Manual	C-Cutter	Power Drill Compatible, Telescoping Extension	RIDGID	31XN16	
Toilets							
3 ft	1/2 in	Manual	Bulb Head	—	RIDGID	4CX10	
6 ft	1/2 in	Manual	Bulb Head	Power Drill Compatible	RIDGID	476G21	
6 ft	1/2 in	Manual	Bulb Head, C-Cutter	Power Drill Compatible	RIDGID	476G22	
6 ft	1/2 in	Manual	Bulb Head	Telescoping Extension	Milwaukee	54DM14	
Urinals							
4 ft	3/8 in	Manual	Bulb Head	Telescoping Extension	Milwaukee	54DM15	
Drain Sticks							
Bathrooms, Showers, Sinks							
				22 in	Barbed	Cobra	415C75
				24 in	Drop Head	Superior Tool	1LN2