



## Special Tube Expanders\*

*Airetool*



### Linsen Flaring Expander

**O.D. Range:**  
1/4 - 2-5/8 Inches  
6.3 - 66.7mm

These special expanders are designed for making tubing connections without fittings. Using a drill press, lathe, or other power-driven tool, the Linsen expander enlarges the end of the tube leaving a .015" clearance for slip-fit and soldering of another tube of the same size. Can be used on copper, brass, aluminum, and thin steel tubing. Always specify tube gauge when ordering.

- Rolls out tubes smoothly and evenly so it doesn't distort or buckle the tube
- Eliminates extra fittings which saves on installation costs

Expander*	Order Number	Tube O.D.		Cup Length		Shank Diameter (Round)	
		in.	mm	in.	mm	in.	mm
AL 250	5518385	1/4	6.3	.437	11.1	.250	6.35
AL 312	5146300	5/16	7.9	.625	15.87	.250	6.35
AL 375	5146400	3/8	9.5	.625	15.87	.250	6.35
AL 500	5146600	1/2	12.7	.625	15.87	.312	7.92
AL 625	5146800	5/8	15.8	.750	19.05	.312	7.92
AL 750	5146900	3/4	19.0	.750	19.05	.375	9.52
AL 875	5147000	7/8	22.2	.750	19.05	.375	9.52
AL 1000	5146000	1	25.4	1.000	25.40	.500	12.70
AL 1125	5147100	1-1/8	28.5	1.000	25.40	.500	12.70
AL 1250	5147200	1-1/4	31.7	1.000	25.40	.500	12.70
AL 1375	5147300	1-3/8	34.9	1.000	25.40	.500	12.70
AL 1500	5146100	1-1/2	38.1	1.000	25.40	.625	15.87
AL 1625	5147400	1-5/8	41.2	1.000	25.40	.625	15.87
AL 2000	5146200	2	50.8	1.000	25.40	.625	15.87
AL 2125	5512247	2-1/8	53.9	1.000	25.40	.625	15.87
AL 2625	5524547	2-5/8	66.6	1.000	25.40	.562 (Hex)	14.27 (Hex)

\* Other sizes may be available. Contact customer service for details.



### SR Expander\*

The "SR" Short Reach Expanders incorporate a rapid taper on the mandrel that allows full expansion of a tube with minimum travel of the mandrel. The mandrel is retained at the rear of the expander to shorten the mandrel length which allows use near sharp tube bends. These expanders are made to order so application details must be provided ahead of time.

- Compact expander allows operation in confined areas
- Short mandrel length used in "bent tube" applications

\* Please contact your Apex Tool Group sales representative for further information on these products.



### Diesel Engine Expander\*

Diesel engine expanders are a special line of expanders designed for rolling the injector sleeves into the heads of diesel engines. Detailed drawings of the injector sleeve and engine head must accompany the order to insure proper design. These expanders are made to order for each application.

- Used in manufacturing, re-manufacturing, and repair of diesel engines
- Expands sleeve against top injector bore in cylinder head forming a tight seal



### "PST" Pipe Sizing Expander\*

The "PST" Expanders are designed to true pipe ends and enlarge the pipe end diameter in two easy steps, providing the correct clearance between the pipe O.D. and the I.D. of a fitting before making a silver solder or brazed welded joint.

- Portable expanders suitable for field work using hand tools or ratchet wrenches
- Accurate expansion of pipe end using quality hardened parts for greater durability
- Threaded mandrel allows fine adjustment for accurate sizing of the pipe end



### Collins Expander\*

**O.D. Range:**  
1/2 - 4-1/2 Inches  
12.7 - 113.8mm

Collins self-feeding tube expanders are tough, durable, and powerful. These nonparallel rolling, self-feeding expanders are suitable for close quarter tube installation and repair work.

- Compact design works well in thin tube sheet applications
- No setup or adjustments make it quick and easy to use
- Self-contained rolls that won't fall out