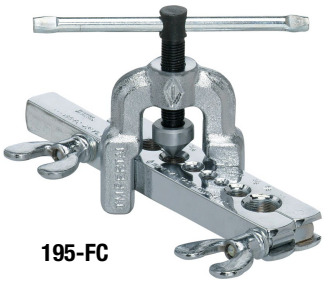
45° FLARING TOOLS

45° FLARING TOOL

For 3/16", 1/4", 5/16", 3/8", 7/16", 1/2" and 5/8" O.D. tubing.



195-FC

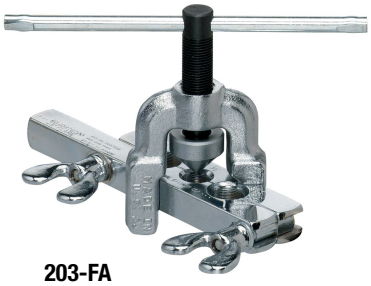
195-FC Flares 7 sizes of tubing. Rugged forged steel slip-on yoke and hardened flaring bar. Positive clamping action of bars prevents tube slippage. Self-centering yoke with swivel-type, hardened steel, chrome finished flaring cone forms better flares with less effort. Design of yoke permits flaring where there is little space between nut and tube end. Satin finish nickel chrome plated. Wt. 2.0 lbs.

Outside Tube Diameter (in.)	3/16	1/4	5/16	3/8	7/16	1/2	5/8
Wall Thickness (in.)	.028	.035	.035	.035	.035	.035	.035

45° LARGE SIZE FLARING TOOL

Flares larger tube sizes. Quick slip-on yoke with hardened steel, chrome finished swivel flaring cone reduces effort. Positive clamping action of flaring bar eliminates tube movement. Nickel chrome finish.

Conforms to Federal Specification GGG-F-451a Type 1, Class 2. Style A.



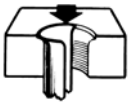
203-FA

203-FA For sizes 5/8", 3/4", 7/8" and 1-1/8" O.D. tubing. Wt. 3.75 lbs.

375-FS For sizes 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 5/8" and 3/4" O.D. tubing. Includes tool case. Wt. 3.75 lbs.

Outside Tube Diameter (in.)	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1	1-1/8
Wall Thickness (in.)	.025	.028	.035	.035	.035	.035	.035	.049	.049	.049	.058	.058

SELF GAUGING - Just insert tube flush with top of die for accurate flare size.



FORMS STRONGER FLARES- Stronger flares assured by smooth, even radius formed at base of every flare by engineered chamfer.

HI-DUTY® 45° FLARING TOOL

For 3/16", 1/4", 5/16", 3/8", 1/2" and 5/8" O.D. tubing.

300-FB

300-FB Hardened steel, chrome finished cone makes exceptionally smooth, high strength flares with a radius at base of flare – instead of the sharp angle formed by ordinary tools. Slip-on yoke permits use in tight quarters, allows flaring where there is little space between nut and tube end. Feed screw design provides smoother, easier operation. Positive gripping and self-gauging of tube for exact flare size. Sliding die blocks lock in place by lever clamp action to ensure even dispersal of force around full diameter of tube for superior grip. Wt. 1.6 lbs.

Outside Tube Diameter (in.)	3/16	1/4	5/16	3/8	1/2	5/8
Wall Thickness (in.)	.028	.035	.035	.035	.035	.035

45° ROL-AIR™ FLARING TOOLS

45° ROL-AIR™ FLARING TOOL

Flares and burnishes 3/16", 1/4", 5/16", 3/8", 1/2" and 5/8" O.D. tubing.

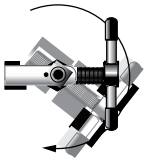
500-FC

500-FC Faceted, hardened steel, chrome finished cone rolls out perfect 45° flares above die block, and automatically burnishes flare face reducing the need for deburring. Original wall thickness is maintained at base of flare. Slip-on yoke permits use in tight quarters, where there is little space between nut and tube end. Larger handle, with better leverage, and precision threads on feed screw make flaring effortless. Heat treated dies grip tubing without scoring. Satin chrome and black finish. Wt. 1.5 lbs.

Outside Tube Diameter (in.)	3/16	1/4	5/16	3/8	1/2	5/8
Wall Thickness (in.)	.028	.035	.035	.035	.035	.035

WORKS WITH R-410A

Flares rolled out above die bar by super-smooth faceted cone. Makes stronger flares.



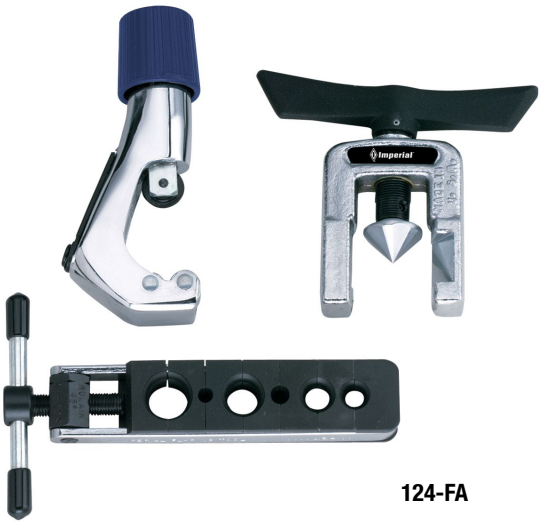
Unique detention mechanism for rapid engagement and release of die blocks.

TUBE WORKING KITS

CUTTING AND FLARING KITS

Each kit contains a TC-1000 tube cutter for 1/8" to 1-1/8" O.D. tubing and a 45° or 37° flaring tool. Includes tool case.

PART NO.	TUBE CUTTER	FLARING TOOL	RANGE OF FLARING TOOL (in.)	WEIGHT (lbs.)
120-F	TC-1000	375-FS (45°)	1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4 O.D.	2.75
122-FA	TC-1000	437-FB (37°)	3/16, 1/4, 5/16, 3/8, 1/2, 5/8 O.D.	2.75
123-FA	TC-1000	300-FB (45°)	3/16, 1/4, 5/16, 3/8, 1/2, 5/8 O.D.	2.75
124-FA	TC-1000	500-FC (45° Rol-Air™)	3/16, 1/4, 5/16, 3/8, 1/2, 5/8 O.D.	2.75
1226-FA	TC-1000	195-FC (45°)	3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8 O.D.	3.0



124-FA

120-F

1226-FA

TUBING TOOL SELECTOR

TUBING TOOL SELECTOR				TUBE MATERIAL															
				COPPER															
					TYPE K			TYPE L											
TOOL	PART NO.	PAGE NO.	SIZE RANGE TUBE O.D. (in.)	ANNEALED GENERAL PURPOSE	SOFT	BENDING TEMPER (HARD)	HARD	SOFT	BENDING TEMPER (HARD)	HARD	TYPE M	ANNEALED ALUMINUM (SOFT)	ANNEALED BRASS (SOFT)	SAE 1020 STEEL (SOFT)	BRAZED-BUNDY WELD GM STEEL	STAINLESS STEEL ANNEALED (SOFT)	STAINLESS STEEL (1/8 HARD)	TITANIUM
Tube Cutters	TC-1000	2	1/8 - 1-1/8	•	•	•	•	•	•	•	•	•	•	•	•	(1)	(1)	(1)
Metal Tubing	TC-1050	3	1/8 - 5/8	•	•	•	•	•	•	•	•	•	•	•	•			
	TC-2050	3	3/16 - 7/8	•	•	•	•	•	•	•	•	•	•	•	•	(1)	(1)	(1)
	174-F	3	3/8 - 1-1/8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	206-FB	4	3/8 - 2-5/8	•	•	•	•	•	•	•	•	•	•	•	•			
	227-FA	2	1/8 - 3/4	•	•	•	•	•	•	•	•	•	•	•	•	(1)	(1)	(1)
	312-FC	2	1/4 - 1-5/8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	406-FA	4	2 - 4-1/8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Thermoplastic Rubber Hose	307-FP	4	1/16 - 1/2 (4)															
	327-FP	4	1/8 - 13/16 (4)															
Bending Tools	101-F	5	1/4 - 5/8	•	•	•		•	•			•	•					
	102-F	5	1/4 - 7/8	•	•	•		•	•			•	•					
	112-F	5	1/4 - 3/8	•	•	•		•	•			•	•					
	162-F	5	3/16 - 1/4	•	•							•						
	163-F	5	1/4 - 5/8	•	•	•		•	•			•	•					
	201-F	5	1/4 - 7/8	•	•	•		•	•			•	•					
	270-F	10	3/4 - 1-1/8	•	•	•	•	•	•	•		•	•	•	•	•	•	•
	364-FH	8	1/8 - 3/16	•	•			•				•	•	•	•	•		
	364-FHA	8	1/4 - 3/4 (3)	•	•			•				•	•	•	•	•		
	364-FHAM	8	6 - 12 mm	•	•			•				•	•	•	•	•		
	364-FHB	8	1/4 - 1/2	•	•			•				•	•	•	•	•		
	364-FHBM	8	6 - 12 mm	•	•			•				•	•	•	•	•		
	367-FH	7	1/8, 3/16, 1/4	•	•			•				•	•	•	•			
	368-FH	7	3/16, 1/4, 5/16, 3/8	•	•			•				•	•	•	•			
	370-FH	7	3/16, 1/4, 3/8, 1/2	•	•			•				•	•	•				
	470-FH	6	3/16, 1/4, 5/16, 3/8	•	•			•				•	•	•				
	564-FH	9	3/8, 1/2	•	•	•		•	•	•		•	•	•	•	•	•	•
	600-F	10	1/4 - 3/4	•	•			•				•	•	•	•	•	•	•
	664-FH	9	1/4, 3/8, 1/2	•	•			•				•	•	•	•	•	•	•
	664-FH (Metric)	9	6 - 12 mm	•	•			•				•	•	•	•	•	•	•
37˚ Flaring Tool	400-F	13	3/16 - 5/8	•	•	•		•	•		(2)	•	•	•	•	•	•	•
	437-FB	13	3/16 - 5/8	•	•	•		•	•		(2)	•	•					
	447-F	14	1/8 - 1/2	•	•	•		•	•		(2)	•	•	•	•	•	•	•
	507-FB	13	3/16 - 5/8	•	•	•		•	•		(2)	•	•					
	555-FS	15	3/16 - 5/8	•	•	•		•	•		(2)	•	•					
	537-F	14	3/4 - 1-1/4	•	•	•		•	•		(2)	•	•	•	•	•	•	•
	2000-FS	20	1/8 - 3/4	•	•	•		•	•		(2)	•	•	•	•	•	•	•
45˚ Flaring Tool	195-FC	11	3/16 - 5/8	•	•	•		•	•		(2)	•	•					
	203-FA	11	5/8 - 1-1/8	•	•	•		•	•		(2)	•	•					
	275-FS	16	1/8 - 3/4	•	•	•		•	•		(2)	•	•					
	300-FB	11	3/16 - 5/8	•	•	•		•	•		(2)	•	•					
	375-FS	11	1/8 - 3/4	•	•	•		•	•		(2)	•	•					
	500-FC	11	3/16 - 5/8	•	•	•		•	•		(2)	•	•					
	525-F	12	3/16 - 5/8 4. 75 - 16 mm	•	•	•		•	•		(2)	•	•					
	555-FS	15	3/16 - 5/8	•	•	•		•	•		(2)	•	•					
	2000-FS	20	1/8 - 3/4	•	•	•		•	•		(2)	•	•	•	•	•	•	•
45˚ Double Flaring Tools	93-FB	12	3/16 - 1/2	•				•				•	•	•	•			
	2000-FS	20	3/16 - 3/4	•				•				•	•	•	•			
Reaming and Deburring Tools	208-F	23	3/16 - 1-1/2	•	•	•	•	•	•	•	•	•	•					
	209-F	23	1/4 - 1-1/2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	210-F	23		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tube Constrictor	TC-1020	2	1/8 - 1-1/8	•	•							•	•					
Swaging Tools	93-S	18	3/16 - 7/8	•	•			•				•	•					
	94-SSP	18	1/2, 5/8, 7/8	•	•			•				•	•					
	95-S	18	3/16 - 5/8	•	•			•				•	•					
	193-S	18	1/4 - 5/8	•	•			•				•	•					
	195-SA	18	1/4 - 5/8	•	•			•				•	•					
	275-FS	16	3/16 - 3/4	•	•			•				•	•					
	555-FS	15	3/16 - 5/8	•	•			•				•	•					
	2000-FS	20	3/16 - 3/4	•	•			•				•	•					
Metric Bubble Flaring Tool	293-F	15	4.75 - 10 mm	•				•				•	•	•	•			

(1) Heavy duty cutting wheel No. S75046 is recommended for continuous service with steel, stainless steel, monel, titanium and hard temper copper tubing.
(2) Type M tubing should be torch annealed before flaring.
(3) No.364-FHA, 5/8" - 3/4" size should be used only with annealed (softened) non-ferrous tubing.
(4) Not to be used with metal reinforced hose.