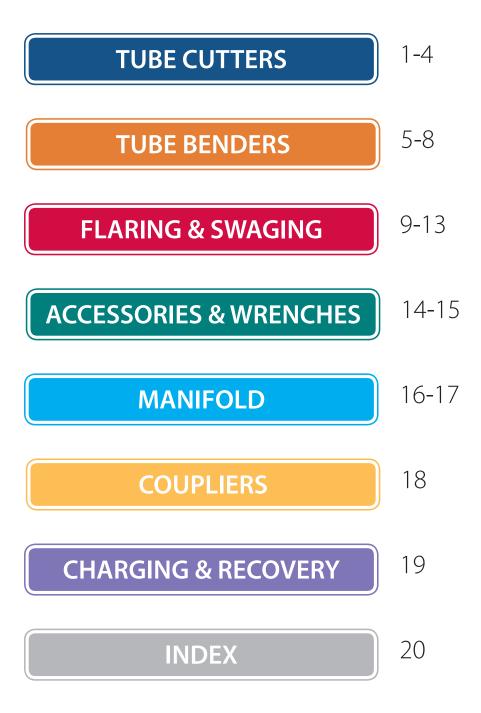




IMPERIAL TOOLS DISTRIBUTOR'S CATALOGUE

CONTENTS



For hard or soft copper, aluminum, brass, thin wall steel, stainless steel, titanium and other tubing.

METAL TUBING

TC-1550 HI-DUTY[™] TUBE CUTTER For 1/8″ to 1-1/8″ (4mm-28mm) O.D. tubing.

- Lower profile swing radius 4-1/4".
- Retractable rotary style reamer for easy internal burr removal.
- Rollers feature flare cut-off grooves, enabling cuts to be made close to the damaged flare, minimising wasted copper.
- Lightweight die-cast solid aluminum body for strength and rigidity.
- Durable low gloss black matt finish for improved wear resistance.
- Enclosed hardened steel, thrust bearing feed mechanism enables smooth cutting action and trouble-free operation.
- Imperial's unique design eliminates spiraling for clean right angle cuts.
- One-piece screw-type axle for easy access to the cutting wheel no clip to lose or replace.
- Imperial cutter wheels are made of the highest quality wear and abrasion-resistant chromium steel. They are precision machined to exacting specifications for accurate cutting and long life. Each tool is supplied with a spare cutter wheel.
- All Imperial tube cutters are 100% factory tested to ensure accurate spiral-free cutting.



Retractable rotary

deburrer

Lightweight

aluminum body

- TC-1550 For 1/8" to 1-1/8" (4 mm to 28 mm) O.D. tubing. Includes (2) S75015 general-purpose cutter wheels. Length 5". Wt. 8.0 oz.
- S75015 General-purpose cutter wheel.
- **S75046** Wheel for continuous cutting of stainless steel and other hard temper tubing.

TUBE CUTTERS

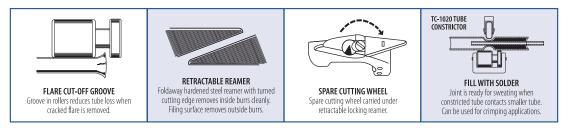
For hard or soft copper, aluminum, brass, thin wall steel, stainless steel, titanium and other tubing.

METAL TUBING

HI-DUTY™ TUBE CUTTERS For 1/8″ to 1-1/8″ and 1/4″ to 1-5/8″ O.D. tubing.

- Enclosed hardened steel, thrust bearing feed mechanism enables smooth cutting action and trouble-free operation.
- Imperial's unique design eliminates spiraling for clean right angle cuts.
- One-piece screw-type axle for easy access to the cutting wheel no clip to lose or replace.
- Aluminum alloy body for strength and rigidity.
- Foldaway hardened steel reamer The turned cutting edge enables the clean removal of inside burrs, whilst the filing surface removes outside burrs.
- Rollers feature flare cut-off grooves, enabling cuts to be made close to the damaged flare, minimising wasted copper.
- Imperial cutter wheels are made of the highest quality wear and abrasion-resistant chromium steel. They are precision machined to exacting specifications for accurate cutting and long life. Each tool is supplied with a spare cutter wheel.
- All Imperial tube cutters are 100% factory tested to ensure accurate spiral-free cutting.
- TC-1000 For 1/8" to 1-1/8" (4 mm to 28 mm) O.D. tubing. Includes (2) S75015 general-purpose cutter wheels. Length 5". Wt. 8.8 oz.
- TC-1010 For 1/8" to 1-1/8" (4 mm to 28 mm) O.D. tubing. Includes (2) S75046 cutter wheels for continuous cutting of stainless steel, monel and other hardtemper tubing. Length 5". Wt. 8.8 oz.
- TC-1020 Combination tube constrictor & tube cutter. For 1/8" to 1-1/8" (4 mm to 28 mm) O.D. tubing. Includes S76637 constrictor wheel and S75015 general-purpose cutter wheel. Length 5-1/2". Wt. 8.8oz.

- eplace. al of inside flare, hromium d TC-1000
- S75046 Wheel for continuous cutting of stainless steel, monel and other hard temper tubing. For cutters TC-1000, TC-1010, TC-1500, 312-FC, 174F, TC-2050.
 S16003162 Replacement cutting wheel for soft copper & aluminum tubing is extra sharp to minimize burr buildup.
 S76637 Constrictor wheel for producing sweat joints.
 312-FC For 1/4" to 1-5/8" (7 mm to 41 mm) O.D. tubing. Includes (2) S75015 general-purpose cutter wheels. Length 5-1/2". Wt. 10.4oz. Conforms to Federal Specification GGG-C-771d, Type II, Class I.
- S75015 General purpose cutter wheel.



JUNIOR TUBE CUTTER For 1/8" to 3/4" (4 mm to 19 mm) O.D. tubing.

227-FA Includes S32633 general-purpose cutter wheel. Swing radius 2". Length 3-1/2". Wt. 5.0 oz.



TUBE CUTTERS

For hard or soft copper, aluminum, brass, thin wall steel, stainless steel, titanium and other tubing.

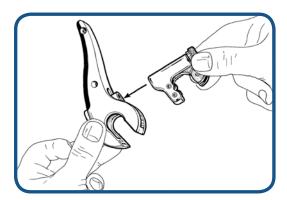
METAL TUBING

IMP[™] MINI TUBE CUTTERS For 1/8" to 5/8" and 3/16" to 7/8" O.D. tubing.

- Big capacity, small sized tube cutter designed for use in tight spaces where other cutters won't fit.
- Enclosed feed screw minimises contamination, assuring continued smooth operation.
- Corrosion-resistant steel rollers positioned at the bottom of the cutter for a smoother cutting action.
- All Imperial tube cutters are 100% factory tested to ensure accurate spiral-free cutting.
- TC-1050 For 1/8" to 5/8" and 4 mm to 15 mm O.D. tubing. Includes (1) S32633 general-purpose cutter wheel. Swing radius 1-1/4". Length 1-3/4". Wt. 2.5 oz.
- TC-2050 For 3/16" to 7/8" and 5 mm to 22 mm O.D. tubing. Includes (1) S75015 general-purpose cutter wheel. Swing radius 1-11/16". Length 2-1/4". Wt. 4.0 oz.

RATCHETING TUBE CUTTER For 1/8" to 5/8" (4mm to15mm) O.D. tubing.

- With a minimum clearance radius of just 1-1/4", the ratcheting tube cutter is ideal for use on pipe work in confined spaces or against walls.
- The unique ratcheting design enables the cutter to complete entire revolutions of the pipework, with maximum leverage, by simply moving the handle up and down.
- The TC-1050 cutter can easily be removed from the handle. Includes (1) S32633 general purpose cutter wheel.
- Ergonomic handle with non-slip grip.
- 100% factory tested to ensure accurate spiral-free cutting.
- Six independent drive pawls provide a 15° arc-swing.
- TC-1050RH Includes TC-1050 mini tube cutter and ratcheting handle in clamshell packaging. Length 5". Wt. 6.0 oz
- TC-1051 Ratcheting handle only. Length 5". Wt. 1.5 oz.







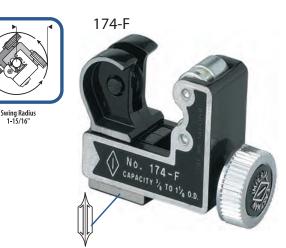
TUBE CUTTERS

For hard or soft copper, aluminum, brass, thin wall steel, stainless steel, titanium and other tubing.

METAL TUBING

"BIG IMP"™ TUBE CUTTER - "Big capacity in small size" For 3/8" to 1-1/8" (10 mm to 28 mm) O.D. tubing.

 174-F Includes (2) S75015 general-purpose cutter wheels. Swing radius 1-15/16" (2-1/4" swing radius with 1-1/8" tube). Length 2-11/16". Wt. 5.0 oz.



ADJUST-O-MATIC[™] TUBE CUTTERS

For 3/8" to 2-5/8" and 2" to 4-1/8" O.D. tubing.

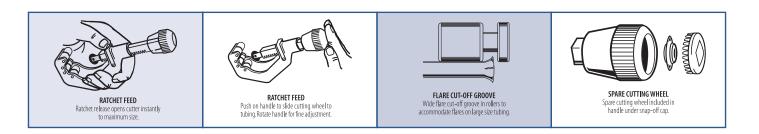
- Ratchet feed mechanism allows the quick placement and release of the cutter wheel onto the pipe.
- Extra wide rollers with flare cut-off groove stabilise the tubing whilst cutting
- Spare cutting wheel is included under handle cap.
- Enclosed feed screw minimises contamination, assuring continued smooth operation.
- 206-FB For 3/8" to 2-5/8" and 10 mm to 66 mm O.D. tubing. Includes (2) S74761 general-purpose cutter wheels. Length closed 7-3/4". Wt. 2.0 lbs.
- 206-FBP Cuts schedule 40 PVC pipe up to 2". Includes one cutter wheel for PVC \$10000770 and one general-purpose cutter wheel \$74761.
- 406-FAFor 2" to 4-1/8" and 51 mm to 104 mm O.D. tubing. Includes
(2) S74833 general-purpose cutter wheels. Length closed
11-1/4". Wt. 3.5 lbs.

Conforms to Federal Specification GGG-C-771d, Type II, Class I.

S75015 - Spare cutting wheel



206-FB



TUBE BENDERS

For bending soft copper, aluminum, brass, thin wall steel, thin wall stainless steel and other tubing

TRIPLE HEAD LEVER TYPE

470-FH TRIPLE HEAD 180° TUBE BENDER WITH ROTO-LOK[™] INDEXING HANDLE

- Bends 3/16", 1/4", 5/16" and 3/8" O.D. tubing.
- Patented, quick-action indexing lever allows the repositioning of the two-stage handle midway through the bend. This feature allows the easy fabrication of bends up to 180° with reduced effort, better control and no crossing of the handles!
- Optimum bending radius for each size of tubing.
- Calibrated markings for making accurate left-hand, right-hand and offset bends.
- Compact design.
- Cushion grips for comfort and stability.
- Made of lightweight, die-cast aluminum.

Roto-Lok™ Indexing Lever allows for Smooth, tight 180° bends with less effort and improved control

TUBE O.D (in.)	RADIUS TO CENTER
	OF TUBE (in.)
3/16	7/16
1/4	9/16
5/16	11/16
3/8	15/16

Bends 3/16",1/4", 5/16" and 3/8" O.D. Tubing





470-FH

Cushion grips for

comfort and stability

Lightweight die-cast

Fixed tube hook









TUBE BENDERS

For bending soft copper, aluminum, brass, thin wall steel, thin wall stainless steel and other tubing

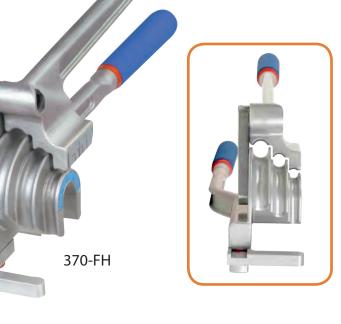
TRIPLE HEAD LEVER TYPE

370-FH TRIPLE HEAD 180° TUBE BENDER

- Bends 1/4", 3/8" and 1/2" tubing.
- Makes smooth, tight-radius 180° bends.
- Calibrated markings for making accurate left-hand, right-hand and offset bends.
- Adjustable hook.
- Optimum bending radius for each size of tubing.
- Cushion grips for extreme comfort.
- Made of lightweight die-cast aluminum.

TUBE O.D (in.)	RADIUS TO CENTER OF TUBE (in.)
1/4	11/16
3/8	1-1/8
1/2	1-1/2

Bend 3 of the most popular sizes of soft copper, aluminum and thin wall steel tubing with one rugged, precise tool!



IMP[™] TRIPLE HEAD BENDERS

For soft copper, aluminum and thin wall steel tubing. For 3/16", 1/4", 5/16", 3/8" O.D. tubing. Makes up to 90° bends.

Calibrated markings for making accurate left-hand, right-hand and offset bends. Ninety degree start requires less effort – making bending fast and easy. Designed for soft copper, aluminum and steel.

• 368-FH For 3/16", 1/4", 5/16" and 3/8" (6 mm and 8 mm) O.D. tubing.



LEVER TYPE

364-FHA LEVER TYPE TUBE BENDERS For 5/8" to 7/8" O.D. tubing.

Each of the tools listed below is specially designed to bend one size of tubing. This range features an open-side, enabling the user to slip them over the tube at any point. Each of the tools in the range will make smooth, tight radius bends up to 180° with minimum effort, with no scoring or flattening of the tubing. They also feature calibrated measurements to enable accurate bends, whilst a wide hook grips the tubing securely.

> **364-FHA-14** Features telescopic handles for increased leverage.

CATALOG NUMBER	TUBE O.D. (in.)	RADIUS TO CENTER OF TUBE (in.)	WEIGHT EACH (lbs.)
364-FHA-10*	5/8	2-1/4	5.5
364-FHA-12*	3/4	3	7.0
364-FHA-14*	7/8	3	10.5

364-FHA-14 Style furnished for 7/8" O.D. tubing.

364-FHA-10 Style furnished for 5/8"

O.D. tubing.

Each	tool	bends	oply	000	cizo
EdCII	1001	penas	Only	one	size.

Conforms to Federal Specification GGG-B-191a Type III, Class 2.

*For bending annealed copper and aluminum tubing only.

364-FHB LEVER TYPE TUBE BENDER For 1/2" O.D. tubing.

The patented 364-FHB series has a swivel handle that can be repositioned midway through a bend when both handles begin to meet. This simple feature allows for the easy fabrication of bends up to 180° with reduced effort, better control and without the crossing of handles, typical of most other lever type benders.

CATALOG	TUBE O.D.	RADIUS	WEIGHT EACH
NUMBER	(in.)	TO CENTER OF TUBE (in.)	(lbs.)
364-FHB-08	1/2	1-1/2	3.5









TUBE BENDERS

For aircraft grade stainless steel (MIL-T-6845) and all other metal tubing of bending temper.

GEAR TYPE

270-F GEAR TYPE TUBE BENDER For 3/8" to 1-1/8" O.D. tubing.

Spur-gear type tube bender with a 10-to-1 ratio for easy bending of all tempered tubing. Floating shoe aligns the tube perfectly on the calibrated forming wheel. The pin on the wheel speeds up repositioning for bends over 90°. Can be used hand held, clamped in a vise or bolted to bench.

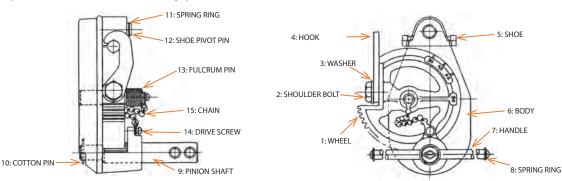
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271-F Pipe vise extension (fits all 270-F Benders). For use when clamping bender in pipe vise. Wt. 1.75 lbs.



CATALOG NUMBER	TUBE O.D. (in.)	RADIUS FROM CTR. TO CENTER OF TUBE (in.)	MIN. RETURN FROM CENTER TO CENTER OF TUBE (in.)	WEIGHT EACH (lbs.)	WALL THICKNESS (in.)
270-F-06	3/8	1-3/4	4-1/2	3	.030 to .060
270-F-08	1/2	2-1/2	6	4.75	.035 to .065
270-F-10	5/8	3	7-1/2	8.5	.040 to .072
270-F-12	3/4	4	9-1/2	15	.042 to .083
270-F-14	7/8	4	9-1/2	14.75	.045 to .083
270-F-16	1	4	9-1/2	14.75	.065 to .095
270-F-18	1-1/8	4	9-1/2	14.75	.065 to .095

REPLACEMENT PARTS For Imperial 270-F Gear Type Tube Benders



270-F-06 3/8 S62244 S62245 S62246 S62247 S62250 S62251 S62252 S62253 S62254 S62255 S62257 S62258 S62838 S62836 562839 270-F-08 1/2 S62261 S62264 S62246 S62263 S62262 S62260 S62269 S62253 S62268 S62255 S62266 S62265 S62840 S62836 S62839 270-F-10 S62275 S62280 S62279 S62278 S62277 S62276 S62284 S62285 S62283 S62255 S62281 S62282 S62841 S62836 S62842 5/8 270-F-12 3/4 S62305 S62294 S62298 S62307 S62306 S62288 S62292 S62297 S62291 S62255 S62296 S62295 S62835 S62836 S62837 270-F-14 7/8 562302 562294 562298 \$62304 562303 562288 562292 \$62297 562291 562255 562296 \$62295 \$62835 562836 \$62837 270-E-16 \$62299 S62294 \$62298 \$62301 \$62300 562288 \$62292 \$62297 S62291 S62255 \$62296 \$62295 \$62835 \$62836 \$62837 270-F-18 1-1/8 S62287 S62294 S62298 S62290 S62289 S62288 S62292 S62297 S62291 S62255 S62296 S62295 S62835 S62869 S62837

Each tool bends only one size.

45° FLARING TOOLS

FLARING &

SWAGING

45° FLARING TOOLS For 3/16", 1/4", 5/16", 3/8", 7/16", 1/2" and 5/8" O.D. tubing.

195-FC Designed to flare 7 sizes of tubing. Features a rugged forged steel slip-on yoke and hardened flaring bar. The positive clamping action of the bars prevents tube slippage. The flaring tool also incorporates a self-centering yoke with swivel-type, hardened steel, flaring cone which forms better flares with less effort. The design of the yoke enables flaring where there is little space between the 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 TOOLS

Designed to flare larger tube sizes. Features a quick slip-on yoke with hard chrome-finished, swivel flaring cone which forms better flares with less effort. Whilst the positive clamping action of the flaring bar eliminates tube movement. Nickel chrome finish. *Conforms to Federal Specification GGG-F-451a Type 1, Class 2. Style A.*





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. 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
Wall Thickness (in.)	.025	.028	.035	.035	.035	.035	.035	.049	.049

45° FLARING TOOLS

FLARING &

SWAGING

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 The 500-FC features a faceted, hardened steel, chromefinished cone which rolls out perfect 45° flares above the die block. The cone automatically burnishes the flare face, reducing the need for deburring. The 500-FC maintains the original wall thickness at the base of the flare. The slip-on yoke permits it to be used in tight quarters, where there is little space between the nut and tube end. Whilst a large handle, gives better leverage, and precision threads on the feed screw make flaring effortless. Satin chrome and black finish. Wt. 1.5 lbs.



The flares are rolled out above the die bar by a super-smooth faceted cone. Resulting in stronger flares.







PATENTED Unique mechanism for the quick engagement and release of the die block

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

195-FB Designed for use on automotive air-conditioning. Makes double flares in soft copper or aluminum tubing (wall thicknesses up to .035"). Easy to operate, ball bearing swiveltype, with a hard chrome-finished flaring cone. Quick slip-on yoke. Flaring bar offers a positive grip of the tubing. The 195-FB is also able to make single flares. Includes a metal case. Wt. 5.5 lbs.





- (1) Screw down the flaring cone with the proper size adapter in the tube. Retract the cone, remove the adapter, complete the flare.
- (2) The ball bearing in the flaring cone minimizes friction and makes the operation easier.

37° FLARING TOOLS

FLARING & SWAGING

37° FLARING TOOL For 6mm, 8mm, 10mm, 12mm, 15mm and 16mm O.D. tubing.

507-FBM The 507-FBM features a faceted, hardened steel, chrome-finished cone which rolls out perfect 37° flares above the die block. The cone automatically burnishes the flare face, reducing the need for deburring. The 507-FBM maintains the original wall thickness at the base of the flare. The slip-on yoke permits it to be used in tight guarters, where there is little space between the nut and tube end. Whilst a large handle, gives better leverage, and precision threads on the feed screw make flaring effortless. Satin chrome and black finish. Wt. 1.75 lbs.



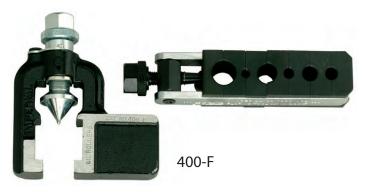


Outside Tube Diameter (mm)	6	8	10	12	15	16
Wall Thickness (mm)	1	1	1	1	1	1

super-smooth faceted cone. Resulting in stronger flares.

37° ROL-AIR™ FLARING TOOL For 3/16", 1/4", 5/16", 3/8", 1/2" and 5/8" O.D. tubing.

The 400-F forms 37° flares in steel, stainless 400-F steel, titanium and other metal tubing. A positive stop gauge on the 400-F assures the correct size of flare. Whilst a special burnishing action polishes the flare face, reducing the need for deburring. Three rollers in the flaring cone, roll out a 37° flare above the die block. The roller action cuts the effort required; maintains the original wall thickness and eliminates the stress concentration. The 400-F also features an extension on the yoke, enabling it to be clamped in a vise. Satin chrome and black finish. Supplied in a sturdy tool case. Wt. 2.5 lbs.



Outside Tube Diameter (in.)	3/16	1/4	5/16	3/8	1/2	5/8
Wall Thickness (in.)	.035	.049	.049	.065	.065	.065

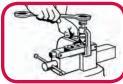


FLARING & SWAGING TOOLS

LARGE SIZE 37° ROL-AIR™ FLARING TOOL For 3/4", 7/8", 1" and 1-1/4" O.D. tubing.

Three rollers in the flaring cone, roll out a 37° flare above the die block. Designed to flare soft steel, copper, aluminum and fully annealed stainless steel tubing. The roller action cuts the effort required; maintains the original wall thickness and eliminates the stress concentration. A feed release and burnishing action enables the cone to spin, polishing the flare, without applying any additional downward pressure. The 537-F also features an extension on the yoke, enabling it to be clamped in a vise. The heat treated dies will clamp tubing without marking it. Satin chrome and black finish. Supplied in a tool case.

537-F Flares and burnishes 3/4", 7/8", 1" and 1-1/4" O.D. tubing. Wt. 13.0 lbs.







Vise clamp extension.

Flares rolled out above the die bar.



Feed release and burnishing mechanism.

Outside Tube Diameter (in.)	3/4	7/8	1	1-1/4
Wall Thickness (in.)	.065	.065	.065	0.83

FLARING (45°) & SWAGING TOOL For 1/8" to 3/4" and 4 mm to 22 mm O.D. tubing.

The 275-FS is a versatile tool which flares and swages. Converting between the two is guick and easy with its interchangeable, hardened steel chrome finished, swivel-type swaging adapters and flaring cone. Two bars are included, covering 9 pipe sizes in total. Due to its compact size, it is ideal for use in close guarters. The 275-FS is also self centering and features a slip-on forged steel yoke. Supplied in a tool case. Wt. 3.5 lbs.

Flares 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 5/8" and 3/4" O.D. Includes 5 swage adapters that swage 7 tube sizes 3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4" O.D.

Replacement parts:	278-FS-05 278-FS-08 278-FS-10 278-FS-12	Adap Adap Adap Adap	1/4", 3/8".	
	\$38600	Flaring Cone.		
Outside Tube Di	1/8	3/16	1/4	



275-FS

538600	Flarin	ig Cone.							
Outside Tube Diameter (in.)	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4
Wall Thickness (in.)	.020	.028	.035	.035	.035	.035	.035	.035	.035



SWAGING TOOLS

PUNCH TYPE SWAGING TOOLS

Imperial swaging tools enables engineers to make tubing connections without fittings. The swaging tool allows the engineer to enlarge the end of the tube, allowing another tube of original O.D. size to be inserted. The two can then be brazed together, creating the connection.

193-S Vinyl case contains 4 swaging punches 1/4", 3/8", 1/2" and 5/8" O.D. tubing. Wt. 1.0 lbs.

INDIVIDUAL SWAGING TOOLS

CATALOG NUMBER	TUBE O.D. (in.)	WALL THICKNESS (in.)	WEIGHT (ibs)
92-S-03	3/16	.028	.20
93-S-04	1/4	.035	.20
93-S-05	5/16	.035	.25
93-S-06	3/8	.035	.25
93-S-08	1/2	.035	.50
93-S-10	5/8	.035	.50
93-S-12	3/4	.035	.75
93-S-14	7/8	0.045	1.0



193-S

TESTING AND SERVICE TOOLS

PINCH-OFF TOOL For 1/4" to 1/2" O.D. tubing.

ACCESSORIES &

WRENCHES

Temporarily closes soft copper, aluminum or steel tubing so no liquid or gas passes the sealed part. Lets you disconnect the line whilst making repairs without the loss of liquid or gas. Features forming holes for 1/4", 3/8" and 1/2" O.D. tubing, allowing the flow to be restored after the repair has been made.

105-FF Pinch-Off Tool for 1/4", 5/16", 3/8" and 1/2" O.D. tubing. Wt. .75 lbs.



105-FF

WRENCHES

For Refrigeration and Air Conditioning Service.

- 127-C Compressor access valve wrench. Chrome plated. Has 1/4", 3/8", 3/16" and 5/16" square drive ratchets and is specially designed for use on compressors with access valves in hard to reach places. Each of the ratchets are reversible.
- 127-CO The 127-CO is the same as the 127-C, except it features a unique a 25° offset which makes it easier to use in hard to reach places.
- 124-C Combination wrench with the four sizes most needed for servicing air-conditioning and refrigerator equipment:
 - 9/16" hex for dust caps on access valves and oil check plugs on compressors.
 - 1/2" hex for compressor mounting bolts.
 - 1/4" square for valve stem and service valves and old style compressor valves.
 - 3/16" square for valve refrigerant charging tanks.



TESTING AND SERVICE TOOLS

DEBURRING TOOL

210-F The rotary style blade is perfect for removing burrs from the inside edge of pipe. The large ergonomic handle makes the tool easy to use and reduces user fatigue. The 210-F features a handy internal storage cavity for up to two extra blades. It is ideal for use on copper, steel, aluminum, zinc, cast iron, brass and plastic tubing. Length 5-3/4". Wt. 1.5 oz.







INNER-OUTER REAMING AND DEBURRING TOOLS For 3/16" to 1-1/2" O.D. tubing.

Reams both the inside and outside edges of tube with 3 hollow ground cutters. Tough die cast body. Deburrs both clockwise and counterclockwise. Fluted body is shaped to fit comfortably in the hand.

- Reamer for copper, aluminum and brass tubing. Hardened 208-F steel cutter blades. Blue finish. Wt. .63 lbs.
- 208-FSS Reamer for aircraft grade stainless steel tubing, hard or soft copper, aluminum, brass and steel tubing. Tungsten hardened tool steel cutter blades. Black finish. Wt. 63 lbs.



SERVICE MANIFOLD

700 SERIES KWIK-CHARGER™ MANIFOLD

Charging the system is even faster and easier with Imperial[®] manifolds with built-in Kwik-Charge[™].

- Dual Action Valve Operates as a conventional manifold, or with the Kwik-Charge valve engaged the manifold accepts liquid refrigerant from the cylinder and discharges into the low side of the system. Charging rate are up to eight times faster than with standard vapor charging.
- Safe An internal metering element reduces the liquid flow to a level below the capacity of the compressor. Assuring a safe, fast charge without damaging the compressor.
- No pressure drop in the cylinder No need to heat the refrigerant cylinder.
- Works with all Refrigerants CFC, HFC, HCFC, Zeotropic and Azeotropic.
- Filters in all the manifold port fittings To keep out particulate materials that may be present in the refrigerant during recovery or reclaim. The filters are easily serviceable.
- Deep Vacuum Valve Design Proven diaphragm-type, soft seat valves require only fingertip pressure to close completely. One turn to full open/close.
- Precision Gauges & Protective Boots Unique gauges provide superior resistance to shock, vibration & pulsation for accurate performance and extended gauge life.
- Ergonomic Handles Durable, soft-touch non-slip surface, even with oily fingers.
- bightragm design allows for finger tip operation and turn to fully open or close

Gauge boots are standard

Large knobs with soft

touch grip surface

Non-flutter gauges with

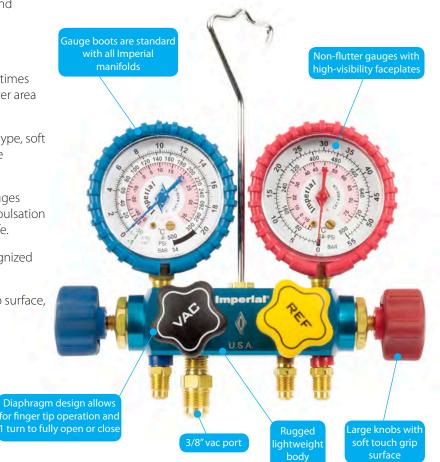
- Swivel Hanger
- PSI & BAR

CATALOG NUMBER	REFRIGERANT	MANIFOLD PORT CONNECTIONS
740-CBC	R-404, R-407C, R-134a	1/4″ SAE
745-CBC	R-410A	1/4″ SAE

SERVICE MANIFOLD

600 SERIES 4-VALVE MANIFOLD

- 4-Valve Efficiency Vacuum, low side, high side, and refrigerant lines are individually connected and controlled. No need to switch charging lines.
- 4 Times Faster Evacuation 3/8" vacuum port and oversize internal passages evacuate systems four times faster than ordinary manifolds. 3/8" port has greater area than combined inlets of high and low side lines.
- Deep Vacuum Valve Design Proven diaphragm-type, soft seat valves require only fingertip pressure to close completely. One turn to full open/close.
- Precision Gauges & Protective Boots Unique gauges provide superior resistance to shock, vibration & pulsation for accurate performance and extended gauge life.
- UL® Recognized The 600 Series manifold is recognized by UL.
- Ergonomic Handles Durable, soft-touch non-slip surface, even with oily fingers.
- Swivel Hanger
- PSI & BAR



CATALOG NUMBER	REFRIGERANT	MANIFOLD PORT CONNECTIONS
660-CB	R-404, R-407C, R-134a	1/4″ SAE
640-CB	R-410A	1/4" & 3/8" SAE

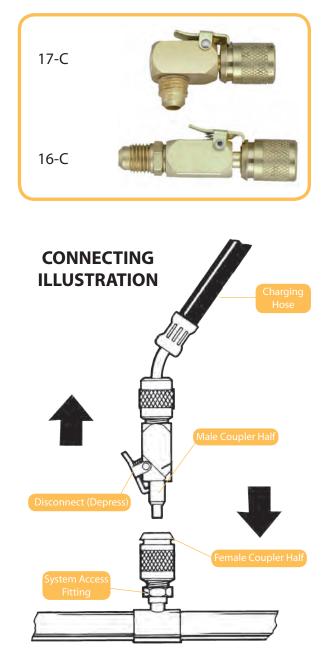
KWIK-COUPLERS™

KWIK-COUPLER™ - SERVICE HOSE SHUT-OFF

Kwik-Couplers are intended for use with refrigeration and airconditioning service hoses, enabling fast and simple connection to access fittings. A conventional threaded connection is converted to a push on connection, which is faster, easier and has positive sealing at all times. Valve cores are depressed automatically without any adjustments or loss of refrigerant. When disconnecting the hoses, the Kwik-Coupler connection will also not lose any refrigerant. The Kwik-Coupler also incorporates an automatic shut-off valve which will retain the refrigerant pressure in the disconnected hose.

FEATURES

- The coupler halves can be separately connected to the access fitting and the hose end. Then the easy push on connection will automatically open or close the system.
- Eliminates hazardous discharge of refrigerant and oil from the system when disconnecting the hose.
- Kwik-Couplers simplifie the operation of charging refrigerant systems.
- Due to their 'No Refrigerant Loss' operation, Kwik-Couplers will prevent finger burns when connecting or disconnecting.
- Core depressors in the hose ends are no longer necessary speeding up the servicing of systems with hand valves.
- 16-C Straight Coupler (45° Flare) 1/4" female x 1/4" male.
- 17-C 90° Elbow Coupler (45° Flare) 1/4" female x 1/4" male.
- **26-C** Straight Coupler (45° Flare) 5/16" female x 5/16" male.
- 27-C 90° Elbow Coupler (45° Flare) 5/16" female x 5/16" male.



WARNING: Do not allow any refrigerant cylinder, connected for charging, to be exposed to system high side pressure cylinder - explosion could result!

REFRIGERANT CHARGING & RECOVERY

KWIK-VISE[™]

Refrigerant Recovery Tool

The Kwik-Vise[™] pierces, seals and locks onto copper lines in one swift motion. It is self-adjusting, with no need to alter the tool for different sizes of tubing. It also features the patented tension system which automatically locks the pliers onto 1/4" to 1/2" (6 mm-12 mm) copper tubing.

To use, simply position the Kwik-Vise[™] onto the tubing to be pierced. Close the pliers quickly and firmly. The pliers will automatically adjust and lock into a tightly sealed, secure position.

Features

- Replaceable hardened, stainless steel pierce and brass valve assembly (S16002045).
- Compatible with copper tubbing 1/4" to 1/2" (6mm-12mm).
- Durable: made with high-carbon, heat treated steel jaws for a long service life.
- Works with all refrigerants CFC, HFC, HCFC and Zeotropic, Azeotropic.
- 90° elbow valve eliminates tangling and interference problems.

KWIK-CHARGE[™]

The Kwik-Charge accepts liquid refrigerant from the cylinder and discharges it into the low side of the system. This results in charging rates which are up to eight times faster than vapor charging. In addition, liquid charging is required when using R-410A and other blended refrigerants. The Kwik-Charge is simply attached to the low side of the charging manifold. The charging hose is connected from the Kwik-Charge outlet to the low side of refrigeration system. An internal metering element within the Kwik-Charge reduces the liquid flow to a level below the capacity of the compressor. Assuring a safe, fast charge without damaging the compressor. A built-in ball check valve automatically opens when drawing a vacuum to assure rapid, unrestricted evacuation. The Kwik-Charge can be used with all fluorinated hydrocarbon refrigerant systems.

Features

- Up to 8 times faster than vapor charging.
- No need to heat the refrigerant cylinder.
- Built-in check valve opens for drawing an unrestricted vacuum.
- No pressure drop in the cylinder.

535-C Kwik-Charge 1/4" female SAE flare inlet, 1/4" male SAE flare outlet.





CONNECTION TO MANIFOLDS (connect all hoses as usual)

2-Valve Manifold: Connect the Kwik-Charge[™] to the low side fitting with the arrow pointing downward.



Kwik-Charge™ can be connected to a refrigerant cylinder rather than a manifold.

4-Valve Manifold: Unscrew the Kwik-Charge[™] end fitting & reverse it, then connect it to the refrigerant fitting as shown in the diagram (flow arrow on the body must point upwards).





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Stride Tools follows a policy of continual product improvement. For this reason, some materials and specifications could change without notice.