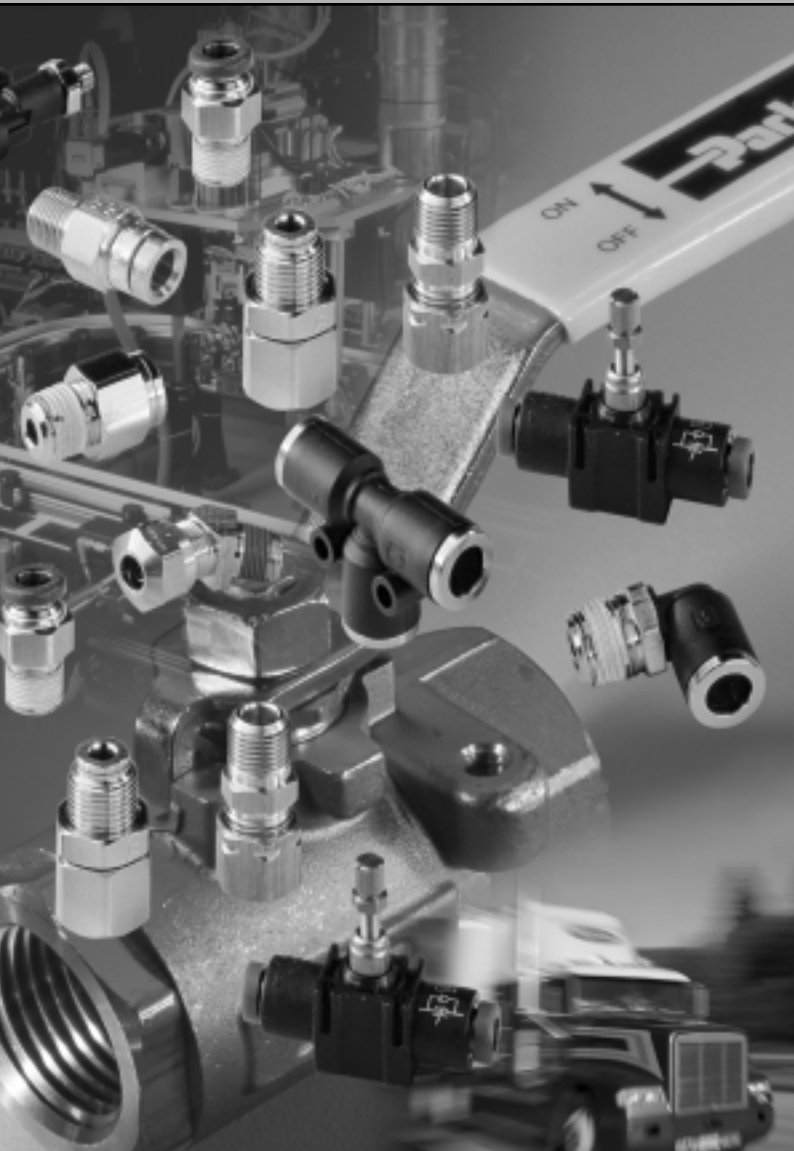



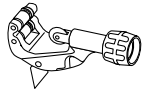

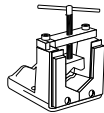

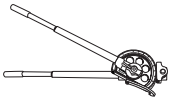
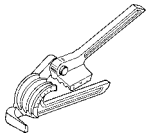

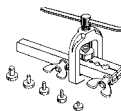
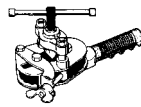
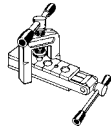
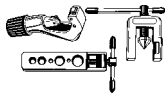
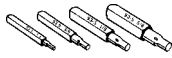
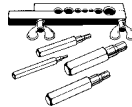
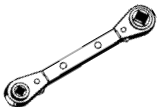








Tube Fabricating Equipment



Tube Cutters	K3
Benders	K5
Flaring Tools	K7
Tubing Tool Kits	K10
Swagging Tools	K11
Wrenches	K12
Testing and Service Tools	K12
Deburring Tools	K14
Brazing Equipment	K14

The World Standard

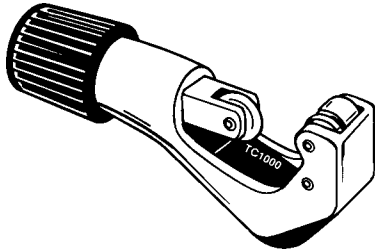
<p>Tube Cutters</p>	<p>Sizes 2 to 64</p>  <p>Page K3</p>	<p>Kloskut Cutters Sizes 2 to 32</p>  <p>Page K4</p>	<p>Plastic Tube Cutter PTC-001</p>  <p>Page K4</p>	<p>Sawing Vise</p>  <p>Page K14</p>	<p>Benders</p>	<p>Hand Benders</p>  <p>Page K5</p>
<p>Ratchet Benders</p>  <p>Page K5</p>	<p>Triple Headed</p>  <p>Page K6</p>	<p>Spring Type</p>  <p>Page K6</p>	<p>Flaring Tools</p>	<p>Combination Tools</p>  <p>Page K7</p>	<p>Rolo-Flair</p>  <p>Page K8</p>	<p>Metric Flaring</p>  <p>Page K9</p>
<p>Tubing Tool Kits</p>	<p>Combination Kits</p>  <p>Page K10</p>	<p>Swaging Tools</p>	<p>Punch-Type</p>  <p>Page K11</p>	<p>Swaging Kits</p>  <p>Page K11</p>	<p>Wrenches</p>	<p>Ratchet Wrenches</p>  <p>Page K12</p>
<p>Par-Lock Wrenches</p>  <p>Page K13</p>	<p>Testing and Service Tools</p>	<p>Pinch Off Tool</p>  <p>Page K12</p>	<p>Deburring Tools</p>	<p>In-Ex Deburring Tool</p>  <p>Page K14</p>	<p>Brazing Equipment</p>	<p>Multi-Flame Torch</p>  <p>Page K14</p>
<p>Braze Flux</p>  <p>Page K15</p>	<p>Post Braze Cleaner</p>  <p>Page K15</p>					

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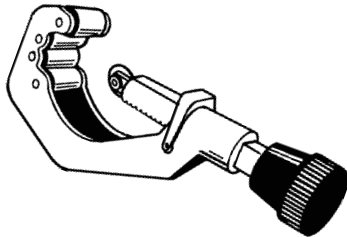
	PART NO.	DESCRIPTION
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Tube Cutters

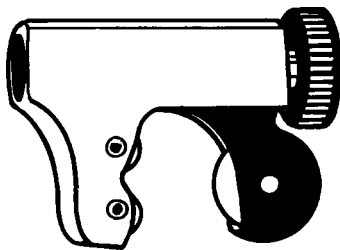
For hard or soft copper, aluminum, brass, thin wall steel, stainless steel, monel, titanium and other metal tubing



		Rollers have flare cut-off groove, fold away reamer and spare cutting wheel.
	TC-1000-BPD	For 1/8" to 1 1/8" (4 to 28 mm) O.D. tubing, (1/8" to 1" nom.). Length: 4 15/16" Weight: 6 1/2 oz.
	312-FC-BPD	For 1/4" to 1 5/8" (7 to 41 mm) O.D. tubing, (1/8" to 1 1/2" nom.). Length: 5 1/2" Weight: 7 oz.
	TC-1020-BPD	Combination tube constictor and cutter for 1/8" to 1 1/8" (4 to 28 mm) O.D. tubing. Includes roller for making brazed connections.
	Replacement Parts:	
	S75015-BPD	Standard cutting wheel
	S75046-BPD	Cutting wheel for stainless steel and hard temper tubing
	S74762-BPD	Screw for cutting wheel

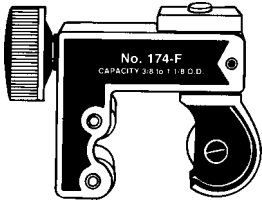


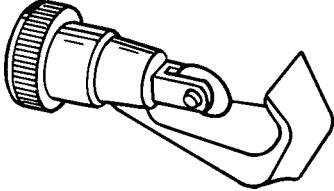
		Ratchet feed mechanism speeds up cutting operation. Extra wide rollers stabilize tubing. Spare cutting wheel included.
	206-FB-BPD	For 3/8" to 2 5/8" (10 to 66 mm) O.D. tubing, (1/4" to 2 1/2" nom.). Length (closed): 7 3/4" Weight: 2 lbs.
	406-FA-BPD	2" to 4" cutter for 2" to 4 1/8" (51 to 104 mm) O.D. tubing, (2" to 4" nom.) Length (closed): 11 1/4" Weight: 3 1/2" lbs.
	Replacement Parts:	
	S74761-BPD	Cutting wheel for 206-FB-BPD



	TC-1050-BPD	For 1/8" to 5/8" (4 to 15 mm) O.D. tubing, (1/8" to 1/2" nom.) Requires only 1 1/4" swing radius. (Requires only 1 3/8" swing radius with 5/8" tube.)
		Repositioned rollers to bottom of tool allows for easier cutter engagement on tubing. Enclosed feed-screw minimized contamination, assuring continued free operation. Redesigned feed mechanism improves overall cutting action.
		Size: 1 3/4" x 1 1/4" x 1/2" Weight: 2 1/2 oz.
	TC-2050-BPD	For 3/16" to 7/8" (5 to 22 mm) O.D. tubing. (Requires only 1 11/16" swing radius.)
	Replacement Parts:	
	S74762-BPD	Screw for cutting wheel TC-1050-BPD
	S32633-BPD	Cutting wheel for TC-1050-BPD



	PART NO.	DESCRIPTION
	174-F-BPD	For 3/8" to 1 1/8" (10 to 28 mm) O.D. tubing, (1/4" to 1" nom.). Requires only 1 15/16" swing radius. (Requires only 2 1/4" swing radius with 1 1/8" tube.) Size: 2 11/16" x 2 1/32" x 1 1/8" Weight: 5 oz. Replacement Parts:
	S75015-BPD	Cutting wheel
	S75046-BPD	Cutting wheel for stainless steel and hard temper tubing

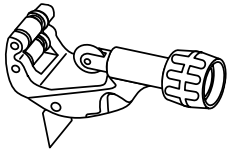
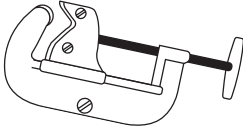
	227-FA-BPD	For 1/8" to 3/4" (4 to 19 mm) O.D. tubing, (1/8" to 5/8" nom.). Enclosed feed mechanism. Length: 3 1/2" Weight: 5 oz. Replacement Parts:
	S32633-BPD	Cutting wheel

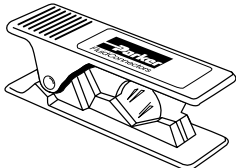
Kloskut® Tube Cutters

Adjustable tube cutters to produce square cut ends with no external burr and minimum internal burring when used on fully annealed copper, brass, aluminum, and steel tubing. Features a hardened and burnished tool-steel cutting wheel, flare cut-off grooves in rollers for removal of old flares, swing-away reamer for removing internal burrs.

Handle feeds and adjusts cutting wheel to uniformly cut tubing as the cutter is rotated.

NOTE: Tube cutters are not recommended for use with stainless steel tubing because of the work hardening effect. The use of a hacksaw with a "Tru-Kut" Sawing Vise or a rotary teeth saw is best recommended for stainless steel.

	218B-BPD	Medium Kloskut For tubing sizes -2 (1/8" O.D.) to -18(1 1/8" O.D.) Weight: 11 oz.
	1232-BPD	Large Kloskut For tubing sizes -12 (3/4" O.D.) to -32 (2" O.D.) Die-cast aluminum frame. Replacement Parts
	218B Wheel-BPD	Cutter wheel for No. 218B Tube Cutter
	1232 Wheel-BPD	Cutter Wheel for No. 1232 Tube Cutter

	PTC-001	Plastic Tube Cutter May be used with polyethylene, Polypropylene, nylon and other thermoplastic tubing. For tube O.D. sizes 1/8" to 1/2"
	PTC-001RB	Replacement blades

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Hand Tube Benders

Sturdy, easy-to-use hand tools for fast accurate bending without kinks or visible flattening. Individual sizes in three modest from size 2 (1/8" O.D.) to 16 (1" O.D.). See Table O3 for part numbers and technical data.

Medium Duty Hand Tube Benders

Designed and built for fast accurate bends and long service life.

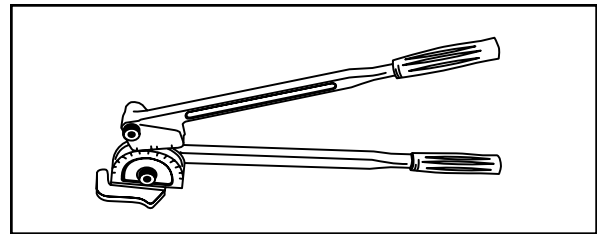
Individual benders for six tube sizes 1/8, 3/16, 1/4, 5/16, 3/8, and 1/2 inch. Will bend copper, aluminum, annealed steel and stainless steel. Can be used in hands or mounted in a bench vise for heavier wall thickness tube. Simply align marks on slide block and radius block then bend tube to desired angle (up to 180°) by pulling steadily on slide block handle. Angles are indicated on radius block both front and back. (Detailed instructions are included with each bender.) This style of bender is also available in metric sizes. See Table O4 for part numbers and technical data.

Ratchet Hand Tube Benders

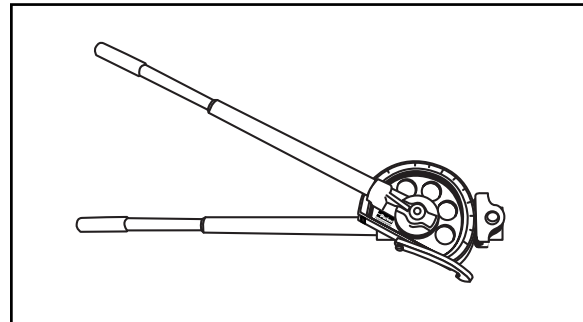
Individual benders for three tubing sizes 5/8, 3/4, and 7/8 inches in copper, aluminum, annealed steel and stainless steel. Can be used in hands or mounted in a bench vise for heavier wall thickness tube. Position tube in bender, close latch and pull ratchet handle away from radius block handle until desired angle (up to 180°) is formed. Angles are indicated on radius block. (Detailed instructions are included with each bender.)

1" Hand Tube Bender

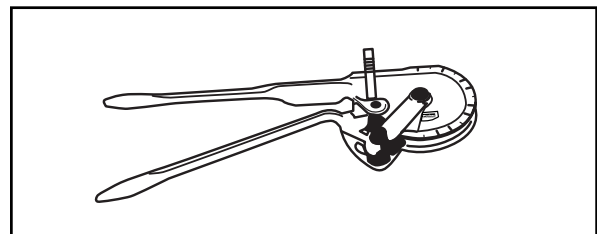
For tubing size 1" O.D. in soft copper and aluminum. Can be used in hands, but suggest mounting on bench vise - especially for heavier wall thickness tube. Align marks and bend tube to desired angle (up to 180°) by pulling steadily on operating handle. Handle may be repositioned for maximum leverage. Angles are indicated on radius block. (Detailed instructions are included with bender.)



Medium Hand Tube Bender



Ratchet Hand Tube Bender



1" Hand Tube Bender

PART NUMBER	TYPE OF BENDER	SIZE	TUBE O.D. (IN.)	RADIUS TO TUBE CENTERLINE (INCHES)	MIN. WALL WITHOUT FLATTENING (INCHES)	RECOMMENDED MAX. WALL THICKNESS	
						COPPER ALUMINUM	STEEL STAINLESS STEEL (IN.)
2-2829S-BPD	MED. DUTY	2	1/8	7/16	0.012	ANY	0.032
3-2829S-BPD	MED. DUTY	3	3/16	9/16	0.020		0.032
4-2829S-BPD	MED. DUTY	4	1/4	9/16	0.028		0.083
5-2829S-BPD	MED. DUTY	5	5/16	15/16	0.032		0.083
6-2829S-BPD	MED. DUTY	6	3/8	15/16	0.032		0.083
8-2829S-BPD	MED. DUTY	8	1/2	1 1/2	0.042		0.083
10-2829S-BPD	MED. DUTY	10	5/8	2 1/2	0.042		0.049
12-2829S-BPD	MED. DUTY	12	3/4	3	0.049		0.065
10-2829-BPD	RATCHET	10	5/8	3	0.042	ANY	0.049
12-2829-BPD	RATCHET	12	3/4	3 3/4	0.049		0.065
14-2829-BPD	RATCHET	14	7/8	3 3/4	0.049		0.065
16-2829-BPD	1"	16	1	3 1/2	0.065	ANY	Not Recommended

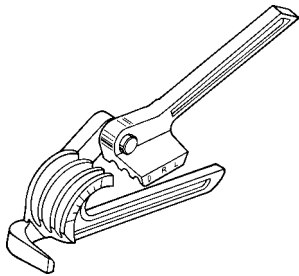
TUBE O.D. (mm)	PART NUMBER	BEND RADIUS	MAX. WALL STEEL/SS
5	2829-5mm-BPD	14.3	1.2
6	2829-6mm-BPD	14.3	1.6
8	2829-8mm-BPD	23.8	1.6
10	2829-10mm-BPD	23.8	2.1
12	2829-12mm-BPD	38.1	2.1
14	2829-14mm-BPD	38.1	2.1



PART NO.	DESCRIPTION
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Tube Benders, Lever Type

For soft copper, aluminum, brass, steel and other metal tubing



367-FH-BPD

368-FH-BPD

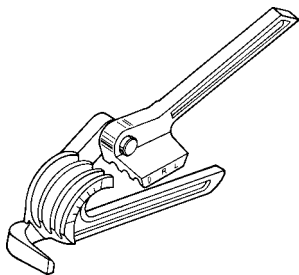
Triple Header Benders

Calibrated markings for making accurate left-hand, right-hand and offset bends. Ninety degree start requires less effort - making bending fast and easy.

For 1/8", 3/16" and 1/4" (3, 4, and 6 mm) O.D. tubing, 9/16" radius to center of tube.

For 1/4", 5/16" and 3/8" (6 and 8 mm) O.D. tubing, 15/16" radius to center of tube.

Metric Tube Benders



367-FH-BPD

368-FH-BPD

Triple Header Benders

For annealed copper, aluminum, steel, stainless steel and hard copper tubing of bending temper.

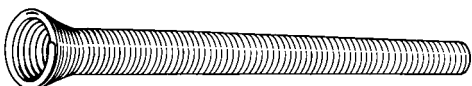
Lever type, multiple size benders. Calibrated markings for making accurate left-hand, right-hand, and offset bends. Ninety degree start requires less effort; makes bending fast and easy.

BENDING RANGE					
Tube O.D.		Radius to Center of Tube			
(Inches)	(mm)	(Inches)	(mm)	(Inches)	(mm)
1/8, 3/16, 1/4	3, 4, 6	9/16	14.2		
1/4, 5/16, 3/8	6, 8	15/16	17.5		

Tube Benders, Spring Type

For soft copper and aluminum tubing

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- 102-F-04-BPD**
- 102-F-05-BPD**
- 102-F-06-BPD**
- 102-F-07-BPD**
- 102-F-08-BPD**
- 102-F-10-BPD**
- 102-F-12-BPD**

201-F-BPD

112-F-BPD

163-F-BPD

For 1/4" to 3/4" O.D. tubing.

Tools allow hand bending of soft tubing to any shape without collapsing walls. Special spring steel, nickel finished. End belled for quick tube removal.

BENDER		
TUBE O.D. (INCHES)	LENGTH (INCHES)	WEIGHT (OZ.)
1/4	10	3
5/16	10	3
3/8	10	4
7/16	12	6 1/4
1/2	12	6 1/2
5/8	12	8
3/4	12	10

Set of 8 benders for 1/4", 5/16", 3/8", 7/16", 1/2", 5/8", 3/4" and 7/8" O.D. tubing.

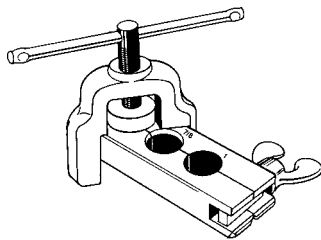
Set of 3 benders for 1/4", 5/16" and 3/8" O.D. tubing.

Set of 4 benders for 1/4", 3/8", 1/2" and 5/8" O.D. tubing.

	PART NO.	DESCRIPTION
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45° Flaring Tools

For soft copper, aluminum and brass tubing

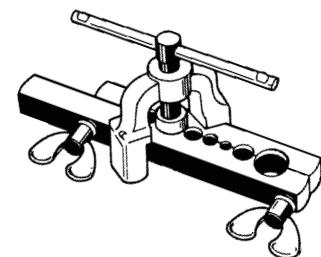


103-FS-BPD

Tools for flaring larger tubesizes. Quick slip-on yoke. Positive clamping action of flaring bar eliminates tube movement.
Weight: 3 3/4 lbs.

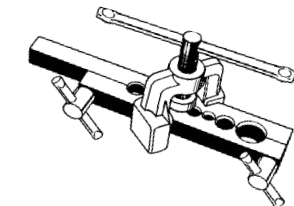
203-FA-BPD

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



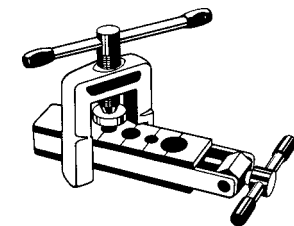
195-FC-BPD

For 3/16", 1/4", 5/16", 3/8", 7/16", 1/2" and 5/8" O.D. tubing, (1/8", 1/4", 3/8" and 1/2" nom.).
Self-centering yoke with swivel-type, hard 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.
Weight: 2 lbs.



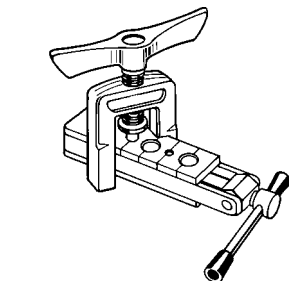
296-FC-BPD

For 3/16", 1/4", 5/16", 3/8", 1/2", and 5/8" O.D. tubing, (1/8", 1/4", 3/8" and 1/2" nom.).
Economical and fast operating. Swivel type, hard chrome-finished cone assures smooth flares. Bar is lighter than 195-FC-BPD and is not hardened.
Weight: 1 3/4 lbs.



300-FB-BPD

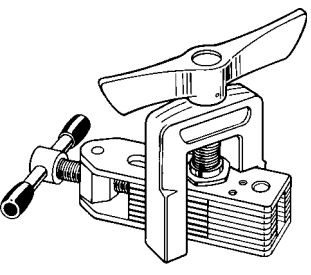
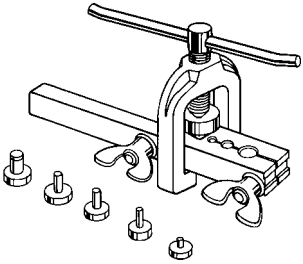
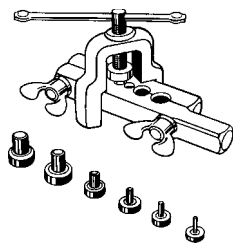
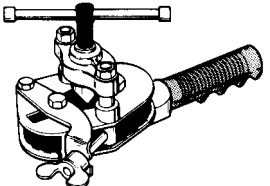
For 3/16", 1/4", 5/16", 3/8", 1/2" and 5/8" O.D. tubing, (1/8", 1/4", 3/8", and 1/2" nom.).
Hard chrome-finished cone makes exceptionally smooth, high strength flares with a radius at base of flare - instead of the sharp angle formed by ordinary tools. Positive gripping and self-gauging of tube for exact flare size.
Weight: 1 5/8 lbs.



500-FC-BPD

For flaring and burnishing 3/16", 1/4", 5/16", 3/8", 1/2" and 5/8" O.D. tubing, (1/8", 1/4", 3/8" and 1/2" nom.).
Flares rolled out above die bar by super-smooth faceted conve. Automatically burnished flare face. Slip-on yoke permits use in tight quarters. Heat treated dies grip tubing without scoring.
Weight: 1 1/2 lbs.

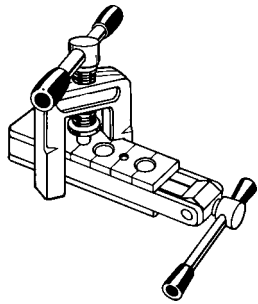


	PART NO.	DESCRIPTION
	<p>525-F-BPD</p>	<p>Flares and burnishes 3/16" to 5/8" (5 to 16 mm) O.D. tubing.</p> <p>Unique, self-adjusting, tube holding mechanism permits use in tight quarters. Faceted, hard chrome finished cone rolls out and burnishes perfect 45° flare above the tube holding mechanism.</p> <p>Weight: 1 3/4 lbs.</p>
	<p>93-FB-BPD</p>	<p>For 3/16", 1/4", 5/16", 3/8" and 1/2" O.D. tubing. Recommended for Bundy, GM and other brazed or welded soft steel tubing (wall thickness to .035"). Also makes single or double flares in soft copper or aluminum tubing. Forged steel yoke; swivel-type hard chrome-finished flaring cone.</p> <p>Weight: 3 lbs.</p>
	<p>195-FB-BPD</p>	<p>For 1/4", 5/16", 3/8", 1/2", 5/8" and 3/4" O.D. tubing. Designed for automotive air conditioning service. Makes double flares in soft copper or aluminum tubing (wall thickness to .035"). Easy operating, ball bearing, swivel-type, hard chrome-finished, flaring cone. Makes flare with double-thick, double-strength walls. Also makes single and oversize flares.</p> <p>Weight: 5 1/2 lbs.</p>
	<p>945TH-BPD</p>	<p>Rolo-flair® Manual Rotary Flaring Tool</p> <p>For soft metal tubing. Precision burnished 45° flares in tube sizes from 2 (1/8" O.D.) to 12 (3/4" O.D.) with an easy turn of the handle. For copper and aluminum alloy.</p> <p>Weight: 2 1/2 lbs.</p>



	PART NO.	DESCRIPTION
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Metric Flaring Tools



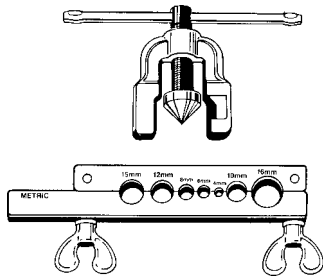
293-F-BPD

Bubble Flaring Tool

For 4.75 (3/16"), 6, 8 and 10 mm O.D. tubing

Flares soft double wall steel tubing with a wall thickness to .028". For soft copper and aluminum tubing.

Also forms international Standard bubble flare in one fast operation. Flares metric hydraulic brake lines used on European, Japanese and domestic automobiles and light trucks. Can also be used for industrial applications where movement or vibration is a problem.



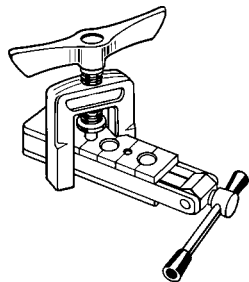
395-FAM-BPD

45° Flaring Tool

For 4, 6, 8, 10, 12, 15 and 16 mm O.D. tubing.

Flares soft copper, aluminum and brass.

Forged steel slip-on yoke and hardened flaring bar. Positive clamping action of bar prevents tube slippage. Self-centering yoke with swivel-type, hard 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.



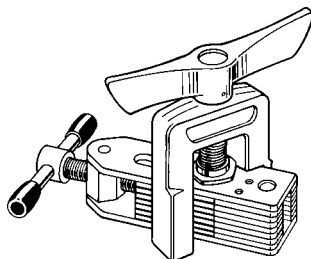
500-FCM-BPD

45° Flaring Tool

For flaring and burnishing 6, 8, 10, 12, 15 and 16 mm O.D. tubing.

For soft copper, aluminum and brass.

Flares rolled out above die bar by super-smooth faceted cone. Automatically burnishes flare face. Slip-on yoke permits use in tight quarters. Heat treated dies grip tubing without scoring.



525-F-BPD

45° Flaring Tool

For flaring and burnishing 5 to 16 mm O.D. tubing.

For soft copper, aluminum and brass.

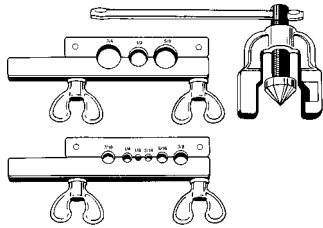
Unique, self-adjusting tube holding mechanism permits flaring any size tubing within the range of 5 to 16 mm O.D. Single opening design is compact and easy to use. Faceted, hard chrome-finished cone rolls out and burnishes perfect flares above the tube holding mechanism. Slip-on self-centering yoke.



PART NO. DESCRIPTION

Tubing Tool Kits

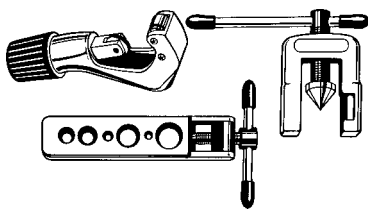
For soft copper, aluminum and brass tubing



45° Flaring Kits
 Compact kits contain two flaring bars and one yoke. Self-centering forged steel yoke has slip-on feature. Swivel-type flaring cone reduces effort required. Positive clamping action of flaring bars eliminates tube movement. In plastic case.
 For 1/8" 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 5/8", and 3/4" O.D. tubing, (1/8", 1/4", 3/8", 1/2" and 5/8" nom.).
 Weight: 4 3/4 lbs.

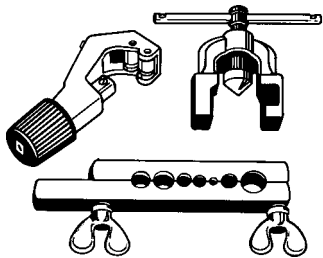
375-FS-BPD

376-FS-BPD
 For 1/2", 5/8", and 3/4" O.D. tubing, (3/8", 1/2" and 5/8" nom.).
 Weight: 2 lbs.

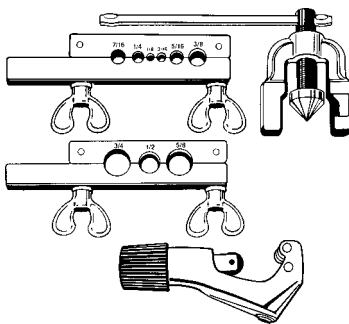


123-FA-BPD **45° Flaring and Cutting Kit**
 Contains TC 1000 tube cutter; 300-FB flaring tool for 3/16", 1/4", 5/16", 3/8", 1/2" and 5/8" O.D. tubing, (1/8", 1/4", 3/8" and 1/2" nom.).

124-FA-BPD
 Contains TC 1000 tube cutter, 500-FB flaring tool (same range as 300-FB).

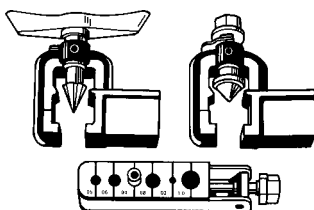


1226-FA-BPD **45° Flaring and Cutting Kit**
 Contains TC 1000 tube cutter for 1/8" to 1 1/8" O.D. tubing and 195-FC flaring tool for 3/16", 1/4", 5/16", 3/8", 7/16", 1/2" and 5/8" O.D. tubing, (1/8", 1/4", 3/8" and 1/2" nom.).
 Weight: 3 lbs.



120-F-BPD **45° Flaring and Cutting Kit**
 Contains TC 1000 cutting tool and 375-FS multiple-size flaring tool for 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 5/8" and 3/4" O.D. tubing, (1/8", 1/4", 3/8", 1/2" and 5/8" nom.). In plastic carrying case.
 Weight: 5 1/4 lbs.

121-F-BPD **All Purpose Tubing Tool Kit**
 Contains tools listed above plus three 102-F bending springs for 1/4", 3/8" and 1/2" O.D. tubing; and our 123-C ratchet wrench with 1/4" ratchet, 3/16" and 1/4" Square opening and 1/2" hex in handle. In steel carrying case.
 Weight: 5 3/4 lbs.



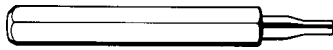
402-FA-BPD **Flaring and Reaming Kit**
 Contains 400-F flaring tool and 401-FA reaming yoke for 1/4" to 5/8" O.D. tubing. In plastic kit.
 Weight: 3 1/8 lbs.

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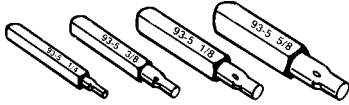
PART NO. DESCRIPTION

Swaging Tools

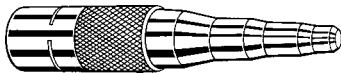
For soft copper, aluminum and brass tubing



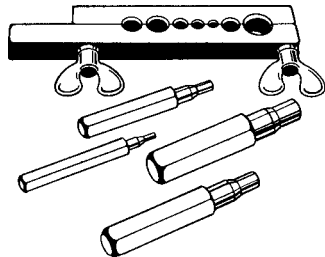
93-S-BPD



193-S-BPD



94-S-BPD



195-SA-BPD

- 93-S-03-BPD
- 93-S-04-BPD
- 93-S-05-BPD
- 93-S-06-BPD
- 93-S-08-BPD
- 93-S-10-BPD
- 93-S-12-BPD
- 93-S-14-BPD
- 94-S-BPD

193-S-BPD

195-SA-BPD

75531-BPD

Punch-Type Swaging Tools

Use these tools for making tubing connections without fittings. Enlarge end of tube, insert another tuber, solder like a sweat fitting.

	O.D. SIZE (INCHES)	NOM. SIZE (INCHES)	WEIGHT
Swaging punch.	3/16		3 oz.
Swaging punch.	1/4	1/8	3 oz.
Swaging punch.	5/16		1/4 lb.
Swaging punch.	3/8	1/4	1/4 lb.
Swaging punch.	1/2	3/8	1/2 lb.
Swaging punch.	5/8	1/2	1/2 lb.
Swaging punch.	3/4	5/8	3/4 lb.
Swaging punch.	7/8	3/4	1 lb.
Swaging punch.	1/2	3/8	1 lb.
		5/8	1/2
		7/8	3/4

Swaging Punch Kit

Contains four swaging punches - 1/4", 3/8", 1/2" and 5/8" O.D., (1/8", 1/4", 3/8" and 1/2" nom.) in vinyl case.

Weight: 1 lb.

Swaging Punch Kit

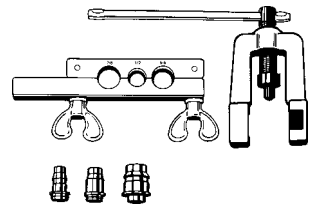
Contains flaring bar and four swaging punches - 1/4", 3/8", 1/2" and 5/8" O.D., (1/8", 1/4", 3/8" and 1/2" nom.). In steel kit.

Weight: 2 lbs.

Flaring bar only.

Weight: 1 lb.

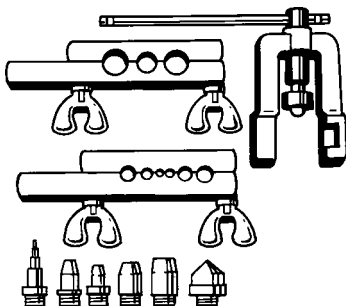
194-S-BPD



For 1/2", 5/8" and 7/8" O.D. tubing, (3/8", 1/2" and 3/4" nom.). Screw-type swaging tool provides perfect swage alignment of tube every time. Adapters change quickly. In plastic kit.

Weight: 2 1/8 lbs.

275-FS-BPD



45° Flaring and Swaging Tool

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

Includes five swage adapters for 3/16", 1/4", 5/16", 3/8", 1/2" and 3/4" O.D. tubing, (1/8", 1/4", 3/8", 1/2" and 5/8" nom.).

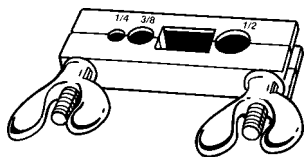
Flares or swages. Converts quickly. Screw-type-feed. Ideal close quarters tool. Swivel-type swaging adapters and spreader cone are hard chrome-finished for easy operation. Self-centering, slip-on forged steel yoke. In plastic kit.

Weight: 3 1/2 lbs.



PART NO.	DESCRIPTION
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Testing and Service Tools



105-FF-BPD

Pinch Off Tool
1/4", 3/8" and 1/2" O.D.

Temporarily closes soft copper, aluminum or steel tubing so no liquid or gas passes sealed part. Opens tubing and rounds it back to shape.

Weight: 3/4 lb.

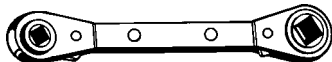
Ratchet Wrenches

For refrigeration/air conditioning service



123-C-BPD

Steel forged. For use on small refrigerant cylinders, shut-off valves, packing gland wrenches, etc. Ratchet has 1/4" square drive and raised face. Handle has 3/16" and 1/4" square drives and 1/2" hex.



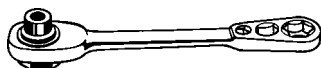
124-C-BPD

Combination wrench with the four sizes most needed for servicing automotive air conditioning:
* 9/16" hex for dust cap on Schrader type valves and plug oil check on York compressor

* 1/2" hex for mounting bolts on Tecumseh, York and Airtemp compressors

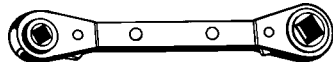
* 1/4" square for valve stem on York and Tecumseh service valves and old style compressor valves

* 3/16" square for valve on old style refrigerant charging tanks.



125-C-BPD

Rugged, steel forged wrench with four sizes covering almost any application.
1/4" square ratchet for valve stem on York and tecumseh service valves, and old style compressor valves. Other end has 3/16" and 5/16" square openings, plus 9/16" hex opening for dust cap on Schrader type valves, and plug for oil check on York compressor.



127-C-BPD

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. Reversible ratchets.

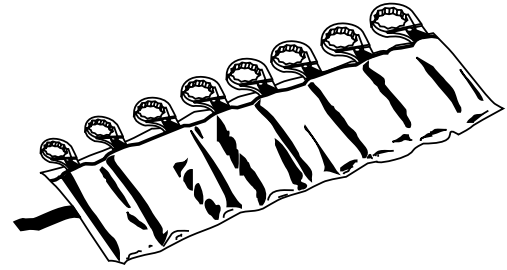
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Par-Lok® Wrench

360° Snap-action ratchet wrench for hex sizes from 3/8" to 2 1/4" across the flats and metric from 10mm to 22mm. Inch sizes meet government specifications and are listed as NSN-5120-00-474-7227.

Install Tube Fittings Faster

Easy across ratchet wrench speeds fittings installation in tight locations. Rugged, snap-action jaws can be opened over tube lines, locked onto fitting hex and ratcheted within 1/8 turn. Full six point contact prevents fitting distortion common with wrench slippage. Ideal for tube line installations where compact runs require multiple fitting make-up, disassembly and remakes.



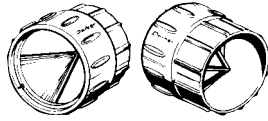
Specifications

Par-Lok wrenches are available individually or in 3 different kit combinations. Par-Lok jaws are constructed from drop-forged, high carbon steel material with a black conversion coat finish. Par-Lok handles are made from heavy gauge steel material, heat treated and with a corrosion resistant black finish. Solid stainless steel rivets and tempered jaw springs are designed into every wrench for maximum strength.

INCH SIZES				METRIC SIZES	
PART NO.	HEX SIZE	PART NO.	HEX SIZE	PART NO.	HEX SIZE
860062-6-BPD	3/8	860062-18-BPD	1 1/8	860063-10-BPD	10 mm
860062-7-BPD	7/16	860062-20-BPD	1 1/4	860063-11-BPD	11 mm
860062-8-BPD	1/2	860062-22-BPD	1 3/8	860063-12-BPD	12 mm
860062-9-BPD	9/16	860062-24-BPD	1 1/2	860063-13-BPD	13 mm
860062-10-BPD	5/8	860062-26-BPD	1 5/8	860063-14-BPD	14 mm
860062-11-BPD	11/16	860062-30-BPD	1 7/8	860063-16-BPD	16 mm
860062-12-BPD	3/4	860062-32-BPD	2	860063-17-BPD	17 mm
860062-13-BPD	13/16	860062-36-BPD	2 1/4	860063-19-BPD	19 mm
860062-14-BPD	7/8	860062-KIT2-BPD	Full Kit- 8 Wrenches	860063-21-BPD	21 mm
860062-15-BPD	15/16			860063-22-BPD	22 mm
860062-16-BPD	1			860063-KIT-BPD	Full Kit-
860062-KIT-BPD	Full Kit- 11 Sizes				10 Sizes

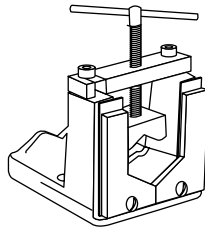
PART NO.	DESCRIPTION
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In-Ex[®] Tube Deburring Tool



226-BPD	<p>A quick twist of the wrist will deburr either the O.D. or the I.D. of the tube end. Parker's In-Ex deburrer can be used on annealed steel, stainless steel, copper and aluminum, for tube sizes 1/8" to 1 5/8" O.D.</p> <p>Insert tube into the convexed end of the In-Ex for inside deburring and the opposite end for outside deburring. Rotate in either direction. Replacement blades can be ordered. See bulletin 4391-B226 for details.</p> <p>Weight: 10 oz.</p>
226RB-BPD	Replacement Blades
208-FSS-BPD	<p>Reamer for aircraft grade stainless steel tubing. Black finish</p> <p>Weight: 10 oz.</p>

Tru-Kut[®] Sawing Vise



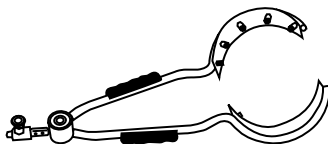
710439-BPD	<p>Hacksaw guide will accommodate tube, pipe and hose from sizes 3 (3/16" O.D.) to 32 (2" O.D.). Assures square cut-offs within $\pm 1^\circ$. Use a fine tooth hacksaw blade for smoother cuts.</p> <p>How To Use: Mount in vise or bolt to bench. Clamp tubing, pipe or hose into the Tru-Kut vise and cut off; guide ensures accurate square cuts.</p>
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Multi-Flame Torch

Each torch is designed to direct jets of flame against the entire circumference of the tube and fitting. This allows the maximum amount of heat to be equally distributed in a minimum amount of time.

The small torch is recommended for use on TL and LHB3 fittings sizes 16 and below. The large torch is best suited for sizes 20 and 24. The large torch can reduce brazing heavy wall tubing in sizes 12 and 16. Threads is 3/8-24 LH hose connections.

PART NO.	DESCRIPTION
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870035-BPD	Small Multi-Flame Torch, (6 jets)
880009-BPD	Large Multi-Flame Torch, (8 jets, heat shield)

Torches are recommended for use with acetylene gas only.

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PART NO.	DESCRIPTION
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Braze Flux

Black braze flux can be used for brazing either steel or stainless steel components. When applied liberally this flux helps the flow of the silver braze alloy and prevents oxidation.



FLUX-1-BPD	Black Flux 1 lb.
FLUX-1/2-BPD	Black Flux 1/2 lb.

Post Braze Cleaner

Used to clean the assembly after brazing. Once the silver braze alloy has solidified, immediately immerse into the braze cleaner solution. The cleaner combined with the sudden change in temperature removes the flux from the assembly. Braze cleaner does not provide corrosion protection.

Available in sizes 2 1/2 lb. and 5 lb. jars. When ordering simply denote quantity after Braze Cleaner.



BRAZE-2.5-BPD	Braze Cleaner 2 1/2 lb.
BRAZE-5-BPD	Braze Cleaner 5 lb.

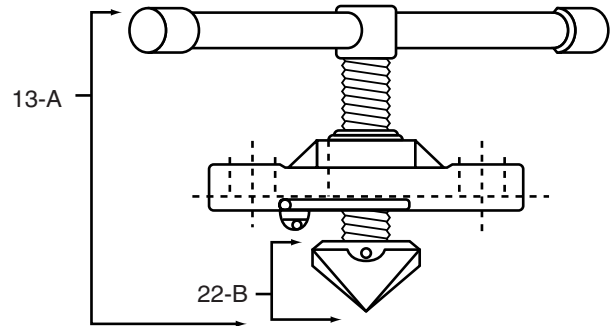
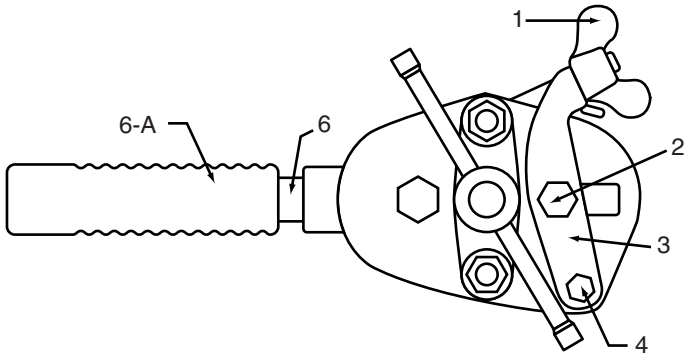
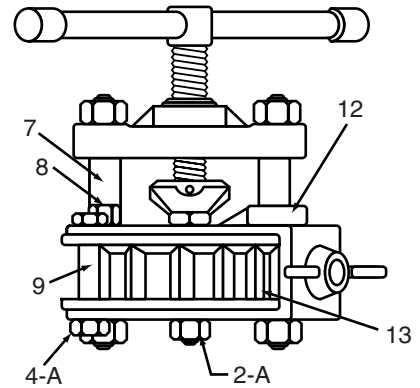


Rolo-Flair® Repair Parts

We do not repair the flaring tool-however, we do offer repair parts-stock available in Otsego, Michigan, only.

Rolo-Flair® for 45° Flare 945TH-BPD

DRAWING ITEM NUMBER	PARKER PART NUMBER	PART DESCRIPTION	NUMBER PIECES REQUIRED
1	642685	Wing Nut	1
2	642694	Hex Bolt	1
2-A	642696	Jam Nut	1
3	642759	Clamping Yoke	1
4	642693	Hex Head Bolt (1/4-28-7/16 Head)	1
4-A	642698	Jam Nut	1
6	642764	Handle	1
6-A	642716	Handle Grip	1
7	642689	Spacer	2
8	642681	Hex Stud	2
9	2603-00006	Spacer	1
12	2600-03001	Top Plate	1
13	2600-03004	Flaring Die Sub-Assy.	1
13-A	2600-03002A	Cross Yoke Sub-Assy.	1
22-B	642680	Burnishing Cone	1



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