

1/4"-1"
I.D.

BRUSHES



TUBE CLEANERS

NYLON BRUSHES Used for removing soft deposits in straight non-ferrous tubes (copper, brass, plastic, etc).



Nylon Brush

STAINLESS STEEL BRUSHES Used for removing soft and light scale deposits in straight ferrous tubes (carbon steel, stainless steel, etc).



Stainless Steel Brush

BRASS BRUSHES Used for removing soft and light scale deposits in straight, non-ferrous tubes.



Brass Brush

Brush O.D.		Nylon Brush	Stainless Steel	Brass Brush	Threading	Coupling
Inch	Mm					
1/4	6.4	SSB-N-204	SSB-SS-204	SSB-B-204	8 - 32F	P-1 (8 - 32M x 8 - 32M)
5/16	7.9	SSB-N-205	SSB-SS-205	SSB-B-205	8 - 32F	P-1 (8 - 32M x 8 - 32M)
3/8	9.5	SSB-N-206	SSB-SS-206	SSB-B-206	12 - 24F	P-2 (8 - 32M x 12 - 24M)
7/16	11.1	SSB-N-207	SSB-SS-207	SSB-B-207	1/4 - 28M	-
1/2	12.7	SSB-N-208	SSB-SS-208	SSB-B-208	1/4 - 28M	-
9/16	14.3	SSB-N-209	SSB-SS-209	SSB-B-209	1/4 - 28M	-
5/8	15.9	SSB-N-210	SSB-SS-210	SSB-B-210	1/4 - 28M	-
11/16	17.5	SSB-N-211	SSB-SS-211	SSB-B-211	1/4 - 28M	-
3/4	19.1	SSB-N-212	SSB-SS-212	SSB-B-212	1/4 - 28M	-
13/16	20.6	SSB-N-213	SSB-SS-213	SSB-B-213	1/4 - 28M	-
7/8	22.2	SSB-N-214	SSB-SS-214	SSB-B-214	1/4 - 28M	-
15/16	23.8	SSB-N-215	SSB-SS-215	SSB-B-215	1/4 - 28M	-
1	25.4	SSB-N-216	SSB-SS-216	SSB-B-216	1/4 - 28M	-

* Brush should be equal to or 1/16" (1.6mm) smaller than tube I.D.

* 9/16" - 1" (14.3 - 25.4mm) brushes can be used for both clockwise and counterclockwise rotation.

SPIN-GRIT BRUSHES

Tube I.D.		Spin-Grit Brushes
Inch	Mm	
1/4-3/8	6.4-9.5	BSGB-050
7/16-9/16	11.1-14.3	BSGB-075
5/8-11/16	15.9-17.5	BSGB-100
3/4-1	19.1-25.4	BSGB-125



Spin-Grit Brush

SPIN-GRIT BRUSHES Used for removing soft and light scale deposits in straight, ferrous and non-ferrous tubes. The abrasive impregnated nylon bristles of this brush clean and polish tubes in one step. Unlike regular spiral brushes Spin-Grit is designed to be oversized in the tube so the bristle lay over, putting the abrasive in contact with the tube wall. Order brush to correspond with tube I.D.

POWER SPIN-GRIT BRUSHES

Tube I.D.		Spin-Grit Brushes
Inch	Mm	
1/2	12.7	BPSGB-050
5/8	15.9	BPSGB-062
3/4	19.1	BPSGB-075
1	25.4	BPSGB-100



Power Spin-GBrush

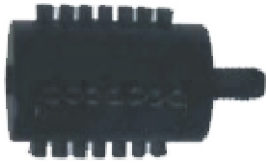
POWER SPIN-GRIT BRUSHES Used for removing soft and light scale deposits in straight, ferrous and non-ferrous internally enhanced tubes. The small diameter end of each of each brush cleans into the grooves of the tube's rifling with the ends of the brush filaments. The large diameter end of the brush cleans the lands of the tube's rifling, as well as any prime surface, with the sides of the brush filaments. Order brush to correspond to tube I.D

EXPANDING BRUSHES

5/8"-1"
I.D.

Spring operated, self-expanding tools are used to remove light scale in straight or curved tubes. The spring action ensures constant and positive contact of the brush with tube walls, ensuring a remarkably smooth operation which produces a high standard of finish.

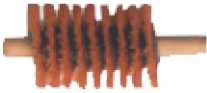
Brush O.D.		Thread	Brushes steel	Brush Refill (Set) Steel
Inch	Mm			
5/8		1/4 - 28 M	9900-0001	7003-0001
3/4	(19.1)	1/4 - 28 M	9900-0005	7003-0005
7/8	(22.2)	1/4 - 28 M	2456-0002	2457-0002
1	(25.4)	1/4 - 28 M	2456-0004	2457-0004



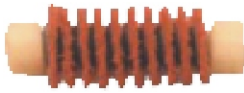
Expanding Brush

Note : Also available Expanding Scrapers.

SHOOT THRU BRUSHES



Orange Nylon (Wood Dowel) for soft deposits



Orange Nylon (Plastic Dowel) for soft deposits



Nylon Brush with rubber ends for soft deposits

Tube I.D.		Model	Model	Model
Inch	Mm			
3/8	(9.5)	-	-	NR375-XX
1/2	(12.7)	-	ONP500-XX	NR500-XX
5/8	(15.9)	ON625-XX	ONP625-XX	NR625-XX
3/4	(19.1)	ON750-XX	ONP750-XX	NR750-XX
7/8	(22.2)	ON875-XX	ONP875-XX	NR875-XX
1	(25.4)	ON1000-XX	ONP1000-XX	NR1000-XX
1.1/4	(31.7)	ON-1250-XX	ONP1250-XX	NR1250-XX

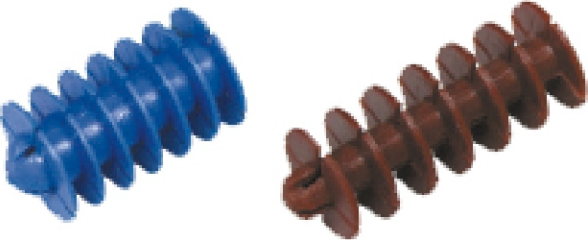
Note : Substitute your tube thickness (BWG) for XX

COLOR CODED SHOOT THRU SCRUBBERS

Tube I.D.		Scrubber O.D. (inch)	Model	Color	Type
Inch	Mm				
0.495-0.541	12.57-13.74	0.560	BTS-560-S	Yellow	Soft
0.527-0.555	13.39-14.10	0.560	BTS-560	Yellow	Hard
0.570-0.620	14.50-15.75	0.630	BTS-630-S	Brown	Soft
0.590-0.630	15.00-16.00	0.630	BTS-630	Brown	Hard
0.620-0.675	15.75-17.15	0.695	BTS-695-S	Red	Soft
0.652-0.694	16.56-17.63	0.695	BTS-695	Red	Hard
0.660-0.730	16.76-18.54	0.750	BTS-750-S	Purple	Soft
0.710-0.750	18.03-19.05	0.750	BTS-750	Purple	Hard
0.730-0.800	18.54-20.32	0.825	BTS-825-S	White	Soft
0.777-0.819	19.74-20.80	0.825	BTS-825	White	Hard
0.780-0.850	19.81-21.60	0.870	BTS-870-S	Green	Soft
0.825-0.870	20.96-22.10	0.870	BTS-870	Green	Hard
0.870-0.944	22.10-24.00	0.960	BTS-960-S	Blue	Soft
0.886-0.950	22.50-24.13	0.960	BTS-960-M	Blue	Medium
0.902-0.956	22.91-24.28	0.960	BTS-960	Blue	Hard
1.000-1.085	25.40-27.56	1.100	BTS-1100-S	Black	Soft
1.027-1.106	26.09-28.09	1.100	BTS-1100	Black	Hard

In most cases hard Tube Scrubbers are recommended for removing light to medium deposits in condensers

Order Tube Scrubbers by Model and Color.



1/4"-1"
I.D.

CLEANING ACCESSORIES



TUBE CLEANERS



Buffing Tool



Replacement Blades



Buffing Tool with Drill Tip

BUFFING TOOLS are used for final polishing or removal of light scale deposits from ferrous and non-ferrous tubes that have been previously cleaned with other tools. Used in straight or very large radius tubes in a clockwise direction only. They cannot be used in internally enhanced tubes.

Tube I.D.		Buffing Tool	With Drill Tip	Replacement Blades	Adjusting Jig
Inch	Mm				
5/16-3/8	7.9-9.5	BPC-203	BPC-203DT	BPC-207	BPC-209
3/8-1/2	9.5-12.7	BPC-204	BPC-203DT	BPC-207	BPC-209
1/2-9/16	12.7-14.3	BPC-205	BPC-203DT	BPC-208A	-
5/8-1	15.9-25.4	BPC-206	BPC-203DT	BPC-208B	-

CARBIDE DRILL for Plugged Tubes/Pipes

Tube I.D.		Carbide Drill
Inch	Mm	
1/4	6.4	BCB-025
3/8	9.5	BCB-037
7/16	11.1	BCB-043
1/2	12.7	BCB-050
9/16	14.3	BCB-056
5/8	15.9	BCB-062
11/16	17.5	BCB-068



Carbide Drill

CARBIDE DRILL are used for cleaning straight tubes plugged solidly with deposits.

Note : All drill run 10% oversize {e.g. CB-062 drill is 0.6875" (17.5mm) O.D.}

FLEX-HOSE ABRASIVE TOOLS

Tube I.D.		Flex-Hone Abrasive Tools
Inch	Mm	
1/4	6.4	BFHT-025
5/16	7.9	BFHT-031
3/8	9.5	BFHT-037
7/16	11.1	BFHT-043
1/2	12.7	BFHT-050
9/16	14.3	BFHT-056
5/8	15.9	BFHT-062
11/16	17.5	BFHT-068
3/4	19.1	BFHT-075
7/8	22.2	BFHT-087
1	25.4	BFHT-100



Flex-Hose Abrasive Tools

FLEX-HOSE ABRASIVE TOOLS are light pressure, soft application honing devices for straight tubes. They consist of 180 grit silicon carbide abrasive globules (stones) bonded to high density nylon filaments. They are flexible, self-compensating for wear. Their unbreakable stones are formulated to provide for a long lasting, consistent finish. Order tool to correspond to tube I.D.

Note : Flex-Hone Abrasive Tools are normally used with a water flush for maximum life.

TUBE CLEANERS

These tools have either a cup brush, wheel brush or grinding tip attached to a 20"(508.0mm) piece of flexible shaft. They are designed to negotiate the bends of a U-tube from each side to clean the U-portion from both sides

CUP BRUSH TOOLS - Brass or Stainless Steel

Tube I.D.		Cup Brush Tools
Inch	Mm	
1/2-3/4	12.7-19.1	BCS-075B
1/2-3/4	12.7-19.1	BCS-075S



Cup Brush Tool

WHEEL BRUSH TOOLS - Brass or Stainless Steel

Tube I.D.		Wheel Brush Tools
Inch	Mm	
1/2-3/4	12.7-19.1	BCW-075B
13/16-1	20.6-25.4	BCW-100B
1/2-3/4	12.7-19.1	BCW-075S
13/16-1	20.6-25.4	BCW-100S



Wheel Brush Tool

GRINDING TIP TOOLS

Tube I.D.		Grinding Tip Tools
Inch	Mm	
1/2	12.7	BGTT-050
5/8	15.9	BGTT-625



Grinding Tip Tool

BRUSHES

NYLON BRUSHES Recommended for removing soft deposits (mud, algae, etc.) In straight, non-ferrous tubes. (Copper, brass, plastic, etc.) Order brush to correspond to tube I.D.



Nylon Brush

BRASS BRUSHES Recommended for removing soft and light scale deposits In straight, non-ferrous tubes. Order brush to correspond to tube I.D.



Brass Brush

STAINLESS STEEL BRUSHES Recommended for removing soft soft and light scale deposits In straight, non-ferrous tubes. (Carbon steel, stainless steel, etc.) Order brush to correspond to tube I.D



Stainless Steel Brush

Brush O.D.		Nylon Brush	Brass Brush	Stainless Steel
Inch	Mm			
1.1/4	31.7	SSB-N-012	SSB-N-012	SSB-N-012
1.1/2	38.1	SSB-N-015	SSB-N-015	SSB-N-015
1.3/4	44.5	SSB-N-017	SSB-N-017	SSB-N-017
2	51.0	SSB-N-020	SSB-N-020	SSB-N-020
2.1/4	57.1	SSB-N-022	SSB-N-022	SSB-N-022
2.1/2	63.5	SSB-N-025	SSB-N-025	SSB-N-025
2.3/4	70.0	SSB-N-027	SSB-N-027	SSB-N-027
3	76.2	SSB-N-030	SSB-N-030	SSB-N-030
3.1/4	82.6	SSB-N-032	SSB-N-032	SSB-N-032
3.1/2	89.0	SSB-N-035	SSB-N-035	SSB-N-035
3.3/4	95.2	SSB-N-037	SSB-N-037	SSB-N-037
4	101.6	SSB-N-040	SSB-N-040	SSB-N-040

CARBON STEEL BRUSHES Recommended for removing soft and light scale deposits in straight, ferrous tubes. Order brush to correspond to tube I.D

PLASTIC BRUSHES Recommended for removing soft deposits in straight, ferrous and non-ferrous tubes. Order brush to correspond to tube I.D.

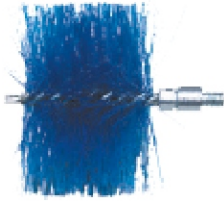
1" & UP
I.D.

BRUSHES & ACCESSORIES

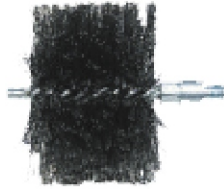


TUBE CLEANERS

Brush O.D.		Carbon Brush	Plastic Brush
Inch	Mm		
5	127.0	CS - 050	P - 050
6	152.4	CS - 060	P - 060
7	178.0	CS - 070	P - 070
8	203.2	CS - 080	P - 080
9	228.6	CS - 090	P - 090
10	254.0	CS - 100	P - 100
11	279.4	CS - 110	P - 110
12	305.0	CS - 120	P - 120
13	330.2	CS - 130	P - 130
14	355.6	CS - 140	P - 140



Plastic Brush



Carbon Steel Brush



Power Spin-Grit Brush

POWER SPIN-GRIT BRUSHES Recommended for removing soft and light deposits in straight, ferrous and non-ferrous internally enhanced tubes. The small diameter end of each brush cleans into the grooves of the tube's rifling with the ends of the brush filaments. The large diameter end of the brush cleans the lands of the tube's rifling, as well as any prime surfaces, with the sides of the brush filaments. Order brush to correspond to the I.D.

PSGB-100 Power Spin-Grit Single Spiral Brush for tubes 1" (25.4mm) I.D.

PSGB-125 Power Spin-Grit Single Spiral Brush for tubes 1.1/4" (31.7mm) I.D.

Note : Brushes over 1" O.D. Require #TCB-C Coupling to Connect to NFSC-705, & NFSC-706 shafts (over couplings supplied with each brush order.)

WHEEL BRUSH ASSEMBLIES To order Wheel Brush Assemblies refer to the table below listing the types of tubes to be cleaned straight or curved.

STRAIGHT TUBE WHEEL BRUSH ASSEMBLIES

Recommended for removing soft and light scale deposits (rust, soot, algae, etc.) In straight tubes. Each assembly consists of four stainless steel wire wheel brushes attached to a universal joint. Brushes should be 1/8" - 1/4" (3.2-6.4mm) smaller than tube I.D. Replacement brush elements are available as shown in the table below.



Straight Brush Assemblies

Curved Tube I.D.		Wheel Brush Assembly	Actual Brush O.D.		Replacement Brushes (two req.)	Replacement Universal Joint	Replacement Retainer Bolt
Inch	Mm		Inch	Mm			
1.1/8-1.1/4	28.6-31.7	WBS-100	1	25.4	WBR-100	CUJ-001	SWB-001
1.3/8-1.1/2	36.0-38.1	WBS-125	1.1/4	31.7	WBR-125	CUJ-001	SWB-001
1.5/8-1.3/4	41.3-44.5	WBS-150	1.1/2	38.1	WBR-150	CUJ-001	SWB-001
1.7/8-2	47.6-51.0	WBS-175	1.3/4	44.5	WBR-175	CUJ-002	SWB-002
2.1/8-2.1/4	54.0-57.1	WBS-200	2	51.0	WBR-200	CUJ-002	SWB-002
2.3/8-2.1/2	60.3-63.5	WBS-225	2.1/4	57.1	WBR-225	CUJ-002	SWB-002
2.5/8-2.3/4	66.7-70.0	WBS-250	2.1/2	63.5	WBR-250	CUJ-002	SWB-002
2.7/8-3	73.0-76.2	WBS-275	2.3/4	70.0	WBR-275	CUJ-002	SWB-002
3.1/8-3.1/4	79.4-82.6	WBS-300	3	76.2	WBR-300	CUJ-002	SWB-002

Note : For larger sizes consult factory.

CURVED TUBE WHEEL BRUSH ASSEMBLIES

Recommended for removing soft and light scale deposits in curved tubes. Each assembly consists of a single stainless steel wire wheel brush attached to each end of a universal joint. Brushes should be 1/4" - 3/8" (6.4-9.5mm) smaller than tube I.D. Replacement brush elements are available as shown in the table below.



Curved Tube Wheel Brush Assembly

TUBE CLEANERS

Curved Tube I.D.		Wheel Brush Assembly	Actual Brush O.D.		Replacement Brushes (two req.)	Replacement Universal Joint	Replacement Retainer Bolt
Inch	Mm		Inch	Mm			
1.1/4-1.3/8	31.7-35.0	WBC-100*	1	25.4	WBR-100	CUJ-003*	CWB-001
1.1/2-1.5/8	38.1-41.3	WBC-125*	1.1/4	31.7	WBR-125	CUJ-003*	CWB-001
1.3/4-1.7/8	44.5-47.6	WBC-150*	1.1/2	38.1	WBR-150	CUJ-003*	CWB-001
2-2.1/8	51.0-54.0	WBC-175	1.3/4	44.5	WBR-175	CUJ-002	CWB-002
2.1/4-2.3/8	57.1-60.3	WBC-200	2	51.0	WBR-200	CUJ-002	CWB-002
2.1/2-2.5/8	63.5-66.7	WBC-225	2.1/4	57.1	WBR-225	CUJ-002	CWB-002
2.3/4-2.7/8	70.0-73.0	WBC-250	2.1/2	63.5	WBR-250	CUJ-002	CWB-002
3-3.1/8	76.2-79.4	WBC-275	2.3/4	70.0	WBR-275	CUJ-002	CWB-002
3.1/4-3.1/2	82.6-89.0	WBC-300	3	76.2	WBR-300	CUJ-002	CWB-002

Note : For larger sizes consult factory.

***Note :** BPTC-706 Coupling required to connect to BPFS-720 and BPFS-721 and BPFS-821 flexible shafts.

BUFFING TOOLS for Tubes/Pipes 1"-3" (25.4-76.2mm) I.D. Stainless Steel Wire Buffing Tool are used for light to medium scale deposits of for finishing tubes previously "roughed out" with other cleaning tools. They can be used in both ferrous and non-ferrous tubes. Buffing tool are normally used in straight tubes but will go through very large radius bends.



Buffing Tool



Replacement Blades



Buffing Tool with Drill Tip

BPTC-223 Adjustable Buffing Tools for tubes 1"-3" (25.4-76.2mm) I.D.

BPTC-223DT Adjustable Buffing Tools for tubes 1"-3" (25.4-76.2mm) with drill up

BPTC-224 Replacement Blades for BPTC-223.

CARBIDE DRILLS for Plugged Tubes/Pipes

Carbide Drills are used for cleaning straight tubes plugged solidly with scale or deposit.

Tube I.D.		Carbide Drill
Inch	Mm	
3/4	19.1	BCB-075
7/8	22.2	BCB-088
1	25.4	BCB-100



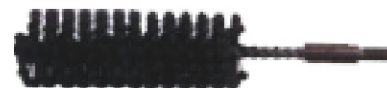
Carbide Drill

Note : All drills run 10% oversize [e.g. CB-075 Drills is 0.825" (21.0mm) O.D.]

FLEX-HONE ABRASIVE TOOLS for Tubes/Pipes 1.1/4" (31.7mm) I.D. and UP

Flex-Hone Abrasive Tool are light pressure, soft application honing devices for straight tubes. They consist of 180 grit silicon carbide abrasive globules (stones) bonded to high density nylon filaments. They are flexible, self-contering, self-aligning and self compensating for wear. Their unbreakable stones are formulated to provided for a long lasting, consistent finish. Order tool to correspond to tube I.D.

Tube I.D.		Flex-Hone Abrasive Tools
Inch	Mm	
1.1/4	31.7	FHT-125
1.1/2	38.1	FHT-150
1.3/4	44.5	FHT-175
2	51.0	FHT-200
2.1/4	57.1	FHT-225
2.1/2	63.5	FHT-250
2.3/4	70.0	FHT-275
3	76.2	FHT-300



Flex-Hone Abrasive Tool

Note : For larger sizes consult factory. Flex-Hone Abrasive Tools are used with water flush for maximum life.

CONE CUTTER ASSEMBLIES

Cone Cutter Assemblies are used for removing scale from curved and straight tubes. Assemblies are slightly smaller than tube I.D. Scale is cut at the smaller tapered end finished at the larger end. The rotation of the tool ensures a through cleaning. In water tube boiler, cone cutters are the most effective cleaning tools for all conditions. To order refer to the tables below.

SINGLE AND DOUBLE CONE ASSEMBLIES Assemblies consisting of one or two cone elements are used for cleaning straight tubes 1.1/8" - 2.5/16" (28.6-58.7mm) I.D. And curved tubes 11/4" - 2.3/8" (31.7-60.3mm) I.D.



Replacement Cone

Straight Tube I.D.		Curved Tube I.D.		Complete Single Cone Assembly	Complete Double Cone Assembly	Cone Max		Replacement Cone Only	Universal Joint	Single Cone Bolt	Double Cone Bolt
Inch	Mm	Inch	Mm			Inch	Mm				
1.1/8-1.1/4	28.6-31.7	1.1/4-1.3/8	31.7-35.0	BSCA-100	BDCA-100	1	25.4	RCO-100	CUJ-001	CRB-001	DCB-001
1.5/16-1.3/8	33.3-35.0	1.1/2-1.5/8	38.1-41.3	BSCA-112	BDCA-112	1.1/8	28.6	RCO-112	CUJ-002	CRB-002	DCB-002
1.7/16-1.1/2	36.5-38.1	1.3/4-1.7/8	44.5-47.6	BSCA-125	BDCA-125	1.1/4	31.7	RCO-125	CUJ-002	CRB-002	DCB-002
1.9/16-1.3/4	39.7-44.5	2-2.1/8	51.0-54.0	BSCA-150	BDCA-150	1.1/2	38.1	RCO-150	CUJ-002	CRB-002	DCB-002
1.13/16-2	46.0-51.0	2.1/4-2.3/8	57.1-60.3	BSCA-175	BDCA-175	1.3/4	44.5	RCO-175	CUJ-002	CRB-002	DCB-002
2.1/16-2.5/16	52.4-58.7			BSCA-200	BDCA-200	2	51.0	RCO-200	CUJ-002	CRB-002	DCB-002



Single Cone Assembly



Double Cone Assembly



Disc Cone Assembly

DISC CONE ASSEMBLIES

Assemblies consisting of three cones are used for cleaning straight tubes 2.3/8"-3.3/4" (60.3-95.2mm) I.D. and curved tubes 2.1/2"-4" (63.5-101.6mm) I.D.

Straight Tube I.D.		Curved Tube I.D.		Complete Disc Cone Assembly	Replacement Cone Only (three req.)	Disc Only (less cones)	Universal Joint	Cone Retainer Bolt (three req.)
Inch	Mm	Inch	Mm					
2.3/8-2.13/16	60.3-71.4	2.1/2-3.1/16	63.5-77.8	BDC-101	PCO-100	PCD-101	CUJ-002	CRB-001
2.7/8-3.5/16	73.0-84.1	3.1/8-3.5/8	79.4-92.1	BDC-102	PCO-100	PCD-102	CUJ-002	CRB-001
3.3/8-3.3/4	85.7-95.2	3.11/16-4	93.7-101.6	BDC-103	PCO-112	PCD-102	CUJ-002	CRB-002

Flex Hub Tools

Flex Hub Tools use centrifugal force activated blades for removing hard and heavy deposits. A drill can be attached to the front of the BPTC-227 or BPTC-231 Flex Hub to clean severely clogged tubes.

Straight Tube I.D.		Curved Tube I.D.		Flex Hub Assembly
Inch	Mm	Inch	Mm	
7/8-11/2	22.2-38.1	1-1.3/4	25.4-44.5	BPTC-226
1.1/2-2	38.1-51.0	1.3/4-2.1/2	44.5-63.5	BPTC-231
1.3/4-3	44.5-76.2	2.1/2-3	63.5-76.2	BPTC-227



Flex Hub Assembly



Replacement Blades



Universal Joint



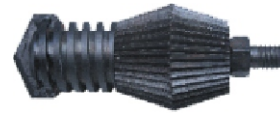
Carbide Drill

- BPTC-223** Replacement Blades for BPTC-226 (set of three).
- BPTC-231A** Replacement Blades for BPTC-231 (set of three).
- BPTC-227A** Replacement Blades for BPTC-227 (set of three).
- CB-088** Drill to be attached to BPTC-227 Flex Hub Assembly for use when tubes are severely clogged.
- CB-075** Drill to be attached to BPTC-231 Flex Hub Assembly for use when tubes are severely clogged.
- CUJ-002** Universal Joint for use with above Flex Hub Assemblies when minimum tube bend radius is less than 5x tube I.S. (Consult factory).

DRILL CONE ASSEMBLIES FOR Plugged Tubes/Pipes 1"-1.7/8" (25.4-47.6mm) I.D. Drill/ Cone Assemblies are recommended for cleaning straight tubes plugged solidly with deposits. Order assembly to correspond to Tube I.D. All drill run 10% oversize.

TUBE CLEANERS

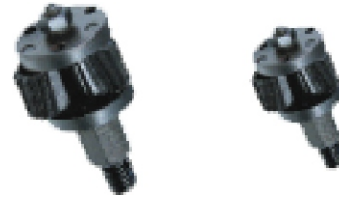
Tube I.D.		Drill Cone Assembly
Inch	Mm	
1	25.4	DC-100
1.1/8	28.6	DC-112
1.1/4-1.3/8	31.7-35.0	DC-125
1.1/2-1.5/8	38.1-41.3	DC-150
1.3/4-1.7/8	44.5-47.6	DC-175



Drill/Cone Assembly

ROTATING CUTTING WHEEL TOOLS for Tubes/Pipes 1.1/2" - 3.15/16" (38.1 - 100.0mm) I.D.
Rotating Cutting Wheel Tools incorporate self-centering, centrifugally activated serrated cutting wheels for removing light to heavy deposits in straight or curved tubes, typically in boilers.

Tube I.D.		Cutting Wheel Tools
Inch	Mm	
1.1/2-1.13/16	38.1-46.0	BRCW-150
1.7/8-2.3/16	47.6-55.6	BRCW-187
2.1/4-3.1/8	57.1-79.4	BRCW-225
3.3/16-3.15/16	81.0-100.0	BRCW-312



Rotating Cutting Wheel Tools

CW-062 Replacement Cutting Wheel for BRCW-150 or BRTC-187.
CW-093 Replacement Cutting Wheel for BRCW-225 or BRTC-312.

FLARE CONE TOOLS for Tubes/Pipes 1.3/4"-6.1/2" (44.5-165.1mm) I.D. (**Rigid Arm**)
Rigid Arm Flare Cone Tools incorporate centrifugal force activated, cones for removing light to heavy deposits in straight tubes.

Tube I.D.		Flare Cone Tools
Inch	Mm	
1.3/4-4	44.5-101.6	BFCT-300
4-6.1/2	101.6-165.1	BFCT-301



Rigid Arm Flare Cone Tool

BRCO-100 Replacement Cone (three required).
BCRB-001 Replacement Cone Retainer Bolt (three required).

For Tubes/Pipes 4"-12" (101.6-305.0mm) I.D. (**Flexible Arm**)
The Flexible Arm Flare Cone Tool incorporates centrifugal force activated cones for removing light to heavy scale deposits in straight or curved tubes. Use typically in vertical tubes.

BFCT-600 Flexible Flare Cone Tool 4"-12" (101.6-305.0mm) I.D.
BRCO-001 Replacement Cone (six required).
BCRB-001 Replacement Cone Retainer Bolt (six required).

Flexible Arm Flare Cone Tool

FLARE BRUSHES for Tubes/Pipes 1"-8" (25.4-203.2mm) I.D.
Flare Brushes incorporate centrifugal force activated wire cables with cobalt tips for light descaling and polishing of straight or curved tubes.

Tube I.D.		Flare Brushes
Inch	Mm	
1-2	25.4-51.0	BFBT-301
2-4	51.0-101.6	BFBT-501
4-8	101.6-203.2	BFBT-502



Three Strand Flare Brush



Five Strand Flare Brush

UNIVERSAL NYLON ROD (FLARE) TOOL
The Universal Nylon Rod (Flare) Tool incorporate centrifugal force activated nylon rods for removing light deposits in thin wall straight or curved tubes.

UFT-005-8 Universal Nylon Rod (Flare) Tool with five 8" (203.2mm) nylon rods for tubes 2" - 15" (51.0-381.0mm) I.D.



Universal Nylon Rod (Flare) Tool

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