

Large Tools For Big Time Performance

SPECIALLY SIZED BRUSHES FOR TUBES 1" AND UP.

Brushes for smooth bore and internally enhanced tubes

Nylon Brushes:

Nylon Brushes are recommended for removing soft deposits (mud, algae, etc.) in straight, ferrous and nonferrous tubes. Order brush to correspond to tube I.D.

TCB-012N 1¼"

TCB-020N 2"

TCB-027N 2¾"

TCB-035N 3½"

TCB-015N 1½"

TCB-022N 2¼"

TCB-030N 3"

TCB-037N 3¾"

TCB-017N 1¾"

TCB-025N 2½"

TCB-032N 3¼"

TCB-040N 4"

Brass Brushes:

Brass Brushes are recommended for removing soft and light scale deposits in straight, ferrous and nonferrous tubes. Order brush to correspond to tube I.D.

TCB-012B 1¼"

TCB-020B 2"

TCB-027B 2¾"

TCB-035B 3½"

TCB-015B 1½"

TCB-022B 2¼"

TCB-030B 3"

TCB-037B 3¾"

TCB-017B 1¾"

TCB-025B 2½"

TCB-032B 3¼"

TCB-040B 4"

Stainless Steel Brushes:

Stainless Steel Brushes are recommended for removing soft and light scale deposits in straight, ferrous tubes. Order brush to correspond to tube I.D.

TCB-012S 1¼"

TCB-022S 2¼"

TCB-032S 3¼"

TCB-042S 4¼"

TCB-015S 1½"

TCB-025S 2½"

TCB-035S 3½"

TCB-045S 4½"

TCB-017S 1¾"

TCB-027S 2¾"

TCB-037S 3¾"

TCB-047S 4¾"

TCB-020S 2"

TCB-030S 3"

TCB-040S 4"

TCB-050S 5"

Dual Diameter Spin-Grit Brushes:

Dual Diameter Spin-Grit Brushes are recommended for removing soft and light scale deposits in straight, ferrous and nonferrous internally enhanced tubes. The small diameter end of this brush cleans into the grooves while the large diameter end cleans the lands of the tube's rifling.

ESGB-Q-100 Dual Diameter Spin-Grit Brush for tubes 1" I.D.

ESGB-Q-125 Dual Diameter Spin-Grit Brush for tubes 1¼" I.D.

Note: ESGB brushes require a GTC-706 Coupling (\$6.00) to connect to GTC-720, GTC-721, GTC-721G and GTC-821 Flexible Shafts.





Carbon Steel Brushes:

Carbon Steel Brushes are recommended for removing soft and light scale deposits in straight, ferrous tubes. Order brush to correspond to tube I.D. (Not recommended for stainless steel tubes.)

TCB-050C 5"	TCB-070C 7"	TCB-090C 9"	TCB-110C 11"	TCB-130C 13"
TCB-060C 6"	TCB-080C 8"	TCB-100C 10"	TCB-120C 12"	TCB-140C 14"



Plastic Brushes:

Plastic Brushes are recommended for removing soft deposits in straight, ferrous and nonferrous tubes. Order brush to correspond to tube I.D.

TCB-040P 4"	TCB-060P 6"	TCB-080P 8"	TCB-100P 10"	TCB-120P 12"	TCB-140P 14"
TCB-050P 5"	TCB-070P 7"	TCB-090P 9"	TCB-110P 11"	TCB-130P 13"	

Food Grade Nylon Brushes:

Food Grade Nylon Brushes are recommended for removing deposits in straight tubes and pipes in food processing facilities. The materials of the brush are compliant with FDA requirements for single and repeated use on food contact surfaces. Order brush to correspond to tube I.D.

FGB-015 1½"	FGB-025 2½"	FGB-040 4"	FGB-060 6"
FGB-020 2"	FGB-030 3"	FGB-050 5"	

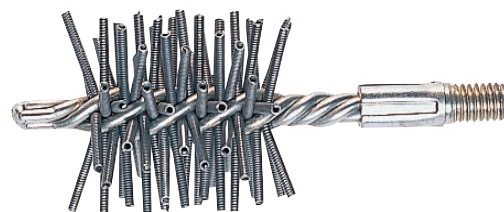


Spring Filled Brushes:

Spring Filled Brushes are recommended for removing heavy scale deposits in straight, ferrous tubes. The spring bristles dig into the scale, breaking it free from the tube wall.

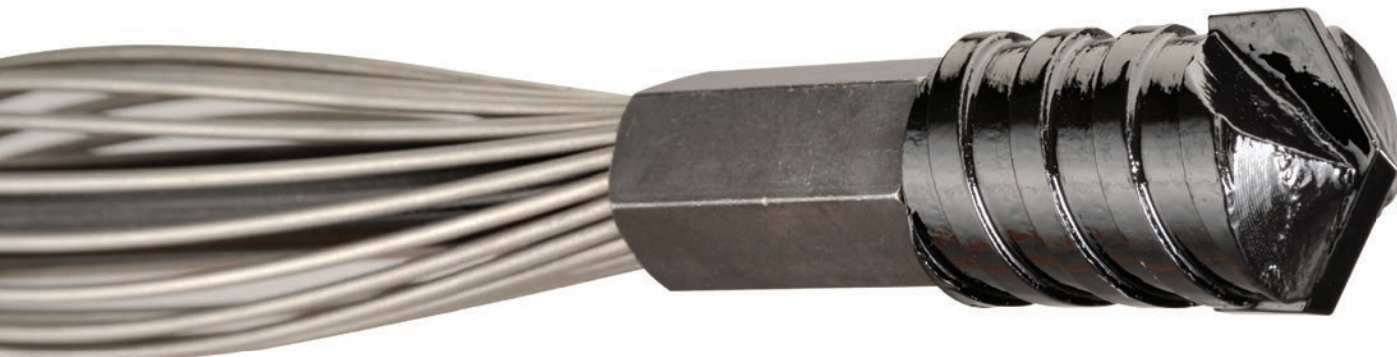
SFB-200 Spring Filled Brushes for tubes 1¾", 1⅝", 2", 2½" or 3" O.D

SFB-300 Spring Filled Brushes for tubes 2" or 3" I.D.



No Tube Cleaning Job Is Too Tough

PURPOSE-BUILT TOOLS THAT EASILY REMOVE HARDENED DEPOSITS.



Cleaning tool for smooth bore tubes 1" I.D. and up

Buffing Tools:

Stainless Steel Wire Buffing Tools are used for removing light to medium scale deposits or for finishing tubes previously "roughed out" with other cleaning tools. They can be used in straight, ferrous and nonferrous tubes. They are adjustable to a 2" range.

GTC-223 Buffing Tool for tubes 1"-3" I.D.

GTC-223DT Same as above with drill tip

GTC-224 Replacement Metal Blades for GTC-223



BUFFING TOOL



BUFFING TOOL WITH DRILL TIP



REPLACEMENT BLADES



TRIANGULAR SCRAPER TOOL

Triangular Scraper Tools:

Triangular Scraper Tools are used for removing heavy scale deposits in straight, ferrous tubes. They are adjustable to a 1/2" range.

TST-1000 Triangular Scraper Tool for tubes 1"-1 1/2" I.D.

TST-1500 Triangular Scraper Tool for tubes 1 1/2"-2" I.D.

TST-2000 Triangular Scraper Tool for tubes 2"-2 1/2" I.D.

TST-2500 Triangular Scraper Tool for tubes 2 1/2"-3" I.D.





CARBIDE DRILL

Carbide Drills:

Carbide Drills are recommended for cleaning straight, ferrous tubes plugged solidly with deposit.

GTC-231D 3/4", **GTC-229** 7/8" or **PTB-100** 1"

Note: All drills run 10% oversize [e.g. GTC-231D Drill is 0.825" O.D.].

Flex-Hone Abrasive Tools:

Flex-Hone Abrasive Tools are light pressure, soft application honing devices for cleaning straight, ferrous tubes. They consist of 180 grit silicon carbide abrasive globules (stones) bonded to high density nylon filaments. Order tool to correspond to tube I.D.

FHT-125 1 1/4", **FHT-150** 1 1/2", **FHT-175** 1 3/4" or **FHT-200** 2"

FHT-225 2 1/4", **FHT-250** 2 1/2", **FHT-275** 2 3/4" or **FHT-300** 3"

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

Flex Hub Tools:

Flex Hub Tools incorporate centrifugally activated blades for removing hard and heavy deposits in straight or curved, ferrous tubes. A drill can be attached to the front of the GTC-227 or GTC-231 Flex Hub to clean severely clogged tubes.

GTC-226 Flex Hub for straight tubes 7/8"-1 1/2" I.D. or curved tubes 1"-1 3/4" I.D.

GTC-231 Flex Hub for straight tubes 1 1/2"-2" I.D. or curved tubes 1 3/4"-2 1/2" I.D.

GTC-227 Flex Hub for straight tubes 1 3/4"-4" I.D. or curved tubes 2 1/2"-4" I.D.

GTC-226A Replacement Metal Blades for GTC-226 (set of three)

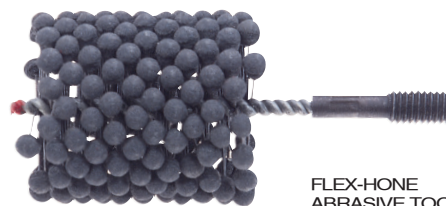
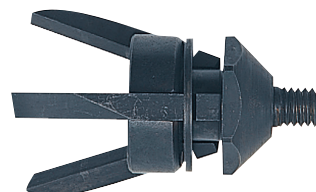
GTC-231A Replacement Metal Blades for GTC-231 (set of three)

GTC-227A Replacement Metal Blades for GTC-227 (set of three)

GTC-229 Drill to be attached to GTC-227 Flex Hub

GTC-231D Drill to be attached to GTC-231 Flex Hub

CUJ-002 Universal Joint for use with Flex Hubs when minimum tube bend radius is less than 5 x I.D. of the tube (consult factory)

FLEX-HONE
ABRASIVE TOOL

FLEX HUB TOOL

REPLACEMENT
METAL BLADES

UNIVERSAL JOINT

Specialty Tools For Difficult Applications

UNIQUE WIRE WHEEL, CONE AND FLARE TOOLS FOR TUBES 1 INCH AND UP.

Straight Tube Wheel Brush Assemblies			
Straight Tube I.D.	Wheel Brush Assembly \$105.00 ea.	Actual Brush O.D.	Replacement Brushes \$13.50 ea.
1 1/8"-1 1/4"	WBS-100	1"	WBR-100
1 3/8"-1 1/2"	WBS-125	1 1/4"	WBR-125
1 5/8"-1 3/4"	WBS-150	1 1/2"	WBR-150
1 7/8"-2"	WBS-175	1 3/4"	WBR-175
2 1/8"-2 1/4"	WBS-200	2"	WBR-200
2 3/8"-2 1/2"	WBS-225	2 1/4"	WBR-225
2 5/8"-2 3/4"	WBS-250	2 1/2"	WBR-250
2 7/8"-3"	WBS-275	2 3/4"	WBR-275
3 1/8"-3 1/4"	WBS-300	3"	WBR-300

Curved Tube Wheel Brush Assemblies			
Curved Tube I.D.	Wheel Brush Assembly \$85.00 ea.	Actual Brush O.D.	Replacement Brushes \$13.50 ea.
1 1/4"-1 3/8"	WBC-100*	1"	WBR-100
1 1/2"-1 5/8"	WBC-125*	1 1/4"	WBR-125
1 3/4"-1 7/8"	WBC-150*	1 1/2"	WBR-150
2"-2 1/8"	WBC-175	1 3/4"	WBR-175
2 1/4"-2 3/8"	WBC-200	2"	WBR-200
2 1/2"-2 5/8"	WBC-225	2 1/4"	WBR-225
2 3/4"-2 7/8"	WBC-250	2 1/2"	WBR-250
3"-3 1/8"	WBC-275	2 3/4"	WBR-275
3 1/4"-3 1/2"	WBC-300	3"	WBR-300

Single and Double Assemblies				
Straight Tube I.D.	Curved Tube I.D.	Single Cone Assembly \$99.00 ea.	Double Cone Assembly \$109.00 ea.	Replacement Cones \$33.00 ea.
1 1/8"-1 1/4"	1 1/4"-1 3/8"	SCA-100	DCA-100	RCO-100
1 5/16"-1 3/8"	1 1/2"-1 5/8"	SCA-112	DCA-112	RCO-112
1 7/16"-1 1/2"	1 3/4"-1 7/8"	SCA-125	DCA-125	RCO-125
1 9/16"-1 3/4"	2"-2 1/8"	SCA-150	DCA-150	RCO-150
1 11/16"-2"	2 1/4"-2 3/8"	SCA-175	DCA-175	RCO-175
2 1/16"-2 5/16"	•	SCA-200	DCA-200	RCO-200

Disc Cone Assemblies			
Straight Tube I.D.	Curved Tube I.D.	Disc Cone Assembly \$150.00 ea.	Replacement Cones \$33.00 ea.
2 3/8"-2 13/16"	2 1/2"-3 1/16"	CDC-101	RCO-100
2 7/8"-3 5/16"	3 1/8"-3 5/8"	CDC-102	RCO-100
3 3/8"-3 3/4"	3 1/16"-4"	CDC-103	RCO-112

STRAIGHT
TUBE
WHEEL
BRUSH
ASSEMBLY

CURVED
TUBE
WHEEL
BRUSH
ASSEMBLY

SINGLE
CONE
ASSEMBLY

DOUBLE
CONE
ASSEMBLY

DISC
CONE
ASSEMBLY

DRILL
CONE
ASSEMBLY

Cleaning tools for smooth bore tubes

Wheel Brush Assemblies:

Wheel Brush Assemblies are recommended for removing soft and light scale deposits from straight and curved, ferrous tubes.

Straight Tube Wheel Brush Assemblies

Straight Tube Wheel Brush Assemblies consists of four stainless steel wire wheel brushes attached to a universal joint. Brushes should be 1/8"-1/4" smaller than tube I.D.

Curved Tube Wheel Brush Assemblies

Curved Tube Wheel Brush Assemblies consists of a single stainless steel wire wheel brush attached to each end of a universal joint. Brushes should be 1/4"-3/8" smaller than tube I.D.

***Note:** GTC-706 Coupling (\$5.00) required to connect to GTC-720, GTC-721, GTC-721G and GTC-821 Flexible Shafts.

Cone Cutter Assemblies:

Cone Cutter Assemblies are recommended for removing scale deposits from straight and curved, ferrous tubes. Assemblies should be slightly smaller than tube I.D.

Single Cone Assemblies

Single Cone Assemblies consists of a one cone element attached to a universal joint and are used for cleaning straight tubes 1 1/8"-2 5/16" I.D.

Double Cone Assemblies

Double Cone Assemblies consists of two cone elements attached to a universal joint and are used for cleaning curved tubes 1 1/4"-2 3/8" I.D.

Disc Cone Assemblies

Disc Cone Assemblies consists of three cone elements attached to a universal joint and are used for cleaning straight tubes 2 3/8"-3 3/4" I.D. and curved tubes 2 1/2"-4" I.D.

Drill Cone Assemblies:

Drill Cone Assemblies consists of two cone elements attached to a drill and are recommended for cleaning straight, ferrous tubes plugged solidly with deposits. Order assembly to correspond to tube I.D.

DDC-100 1", **DDC-112** 1 1/8", **DDC-125** 1 1/8"-1 3/8", **DDC-150** 1 1/2"-1 5/8" or **DDC-175** 1 3/4"-1 7/8"





Rigid Arm Flare Cone Tools:

Rigid Arm Flare Cone Tools incorporate centrifugally activated, serrated cones for removing light to heavy scale deposits in straight, ferrous tubes. Use in horizontal or vertical tubes.

FCT-300 Flare Cone Tool for tubes 1 $\frac{3}{4}$ "-4" I.D.

FCT-301 Flare Cone Tool for tubes 4"-6 $\frac{1}{2}$ " I.D.

RCO-100 Replacement Cone

CRB-001 Replacement Cone Retainer Bolt



RIGID ARM FLARE CONE TOOL

Flexible Arm Flare Cone Tool:

The Flexible Arm Flare Cone Tool incorporates centrifugally activated serrated cones for removing light to heavy scale deposits in straight or curved, ferrous tubes. Most effective results are obtained if tube is in vertical position when cleaning.

FCT-600 Flare Cone Tool for tubes 4"-12" I.D.

RCO-100 Replacement Cone

CRB-001 Replacement Cone Retainer Bolt



FLEXIBLE ARM FLARE CONE TOOL

Flare Brushes:

Flare Brushes incorporate centrifugally activated wire cables with cobalt tips for light descaling and finishing of straight or curved, ferrous and nonferrous tubes.

FBT-301 Three Strand Flare Brush for tubes 1"-2" I.D.

FBT-501 Five Strand Flare Brush for tubes 2"-4" I.D.

FBT-502 Five Strand Flare Brush for tubes 4"-8" I.D.



FLARE BRUSH TOOL

Universal Nylon Rod (Flare) Tool:

The Universal Nylon Rod (Flare) Tool incorporates centrifugally activated nylon rods for removing light deposits in straight or curved, ferrous and nonferrous tubes.

UFT-005-8 Universal Nylon Rod (Flare) Tool for tubes 2"-15" I.D.



UNIVERSAL NYLON ROD (FLARE) TOOL