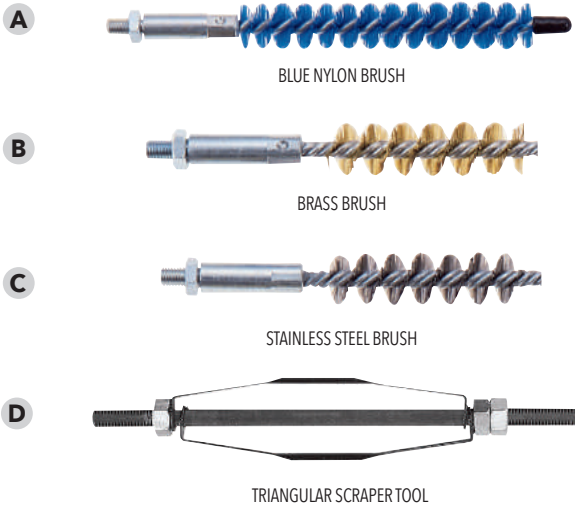


**По вопросам продаж и поддержки обращайтесь:**

|                             |                                 |                                |                          |
|-----------------------------|---------------------------------|--------------------------------|--------------------------|
| Алматы (7273)495-231        | Калининград (4012)72-03-81      | Омск (3812)21-46-40            | Сыктывкар (8212)25-95-17 |
| Ангарск (3955)60-70-56      | Калуга (4842)92-23-67           | Орел (4862)44-53-42            | Тамбов (4752)50-40-97    |
| Архангельск (8182)63-90-72  | Кемерово (3842)65-04-62         | Оренбург (3532)37-68-04        | Тверь (4822)63-31-35     |
| Астрахань (8512)99-46-04    | Киров (8332)68-02-04            | Пенза (8412)22-31-16           | Тольятти (8482)63-91-07  |
| Барнаул (3852)73-04-60      | Коломна (4966)23-41-49          | Петрозаводск (8142)55-98-37    | Томск (3822)98-41-53     |
| Белгород (4722)40-23-64     | Кострома (4942)77-07-48         | Псков (8112)59-10-37           | Тула (4872)33-79-87      |
| Благовещенск (4162)22-76-07 | Краснодар (861)203-40-90        | Пермь (342)205-81-47           | Тюмень (3452)66-21-18    |
| Брянск (4832)59-03-52       | Красноярск (391)204-63-61       | Ростов-на-Дону (863)308-18-15  | Ульяновск (8422)24-23-59 |
| Владивосток (423)249-28-31  | Курск (4712)77-13-04            | Рязань (4912)46-61-64          | Улан-Удэ (3012)59-97-51  |
| Владикавказ (8672)28-90-48  | Курган (3522)50-90-47           | Самара (846)206-03-16          | Уфа (347)229-48-12       |
| Владимир (4922)49-43-18     | Липецк (4742)52-20-81           | Саранск (8342)22-96-24         | Хабаровск (4212)92-98-04 |
| Волгоград (844)278-03-48    | Магнитогорск (3519)55-03-13     | Санкт-Петербург (812)309-46-40 | Чебоксары (8352)28-53-07 |
| Вологда (8172)26-41-59      | Москва (495)268-04-70           | Саратов (845)249-38-78         | Челябинск (351)202-03-61 |
| Воронеж (473)204-51-73      | Мурманск (8152)59-64-93         | Севастополь (8692)22-31-93     | Череповец (8202)49-02-64 |
| Екатеринбург (343)384-55-89 | Набережные Челны (8552)20-53-41 | Симферополь (3652)67-13-56     | Чита (3022)38-34-83      |
| Иваново (4932)77-34-06      | Нижний Новгород (831)429-08-12  | Смоленск (4812)29-41-54        | Якутск (4112)23-90-97    |
| Ижевск (3412)26-03-58       | Новокузнецк (3843)20-46-81      | Сочи (862)225-72-31            | Ярославль (4852)69-52-93 |
| Иркутск (395)279-98-46      | Ноябрьск (3496)41-32-12         | Ставрополь (8652)20-65-13      |                          |
| Казань (843)206-01-48       | Новосибирск (383)227-86-73      | Сургут (3462)77-98-35          |                          |
| Россия +7(495)268-04-70     | Киргизия +996(312)-96-26-47     | Казахстан +7(7172)727-132      |                          |

# BRUSHES AND CLEANING TOOLS FOR PSM-500

## HEAVY DUTY ACCESSORIES FOR SMALL TUBES



### A. BLUE NYLON BRUSHES

Blue Nylon Brushes are recommended for removing soft deposits (mud, algae, etc.) in straight, ferrous and nonferrous tubes.

**GTC-211:** Blue Nylon Brushes, 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16" or 1" .....

### B. BRASS BRUSHES

Brass Brushes are recommended for removing soft and light scale deposits in straight, ferrous and nonferrous tubes.

**GTC-200B:** Brass Brushes, 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16" or 1" .....

### C. STAINLESS STEEL BRUSHES

Stainless Steel Brushes are recommended for removing soft and light scale deposits in straight, ferrous tubes.

**GTC-210:** Stainless Steel Brushes, 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16" or 1" .....

**Note:** Blue Nylon, Brass and Stainless Steel Brushes should be equal to or 1/16" smaller than tube I.D.

### D. TRIANGULAR SCRAPER TOOLS

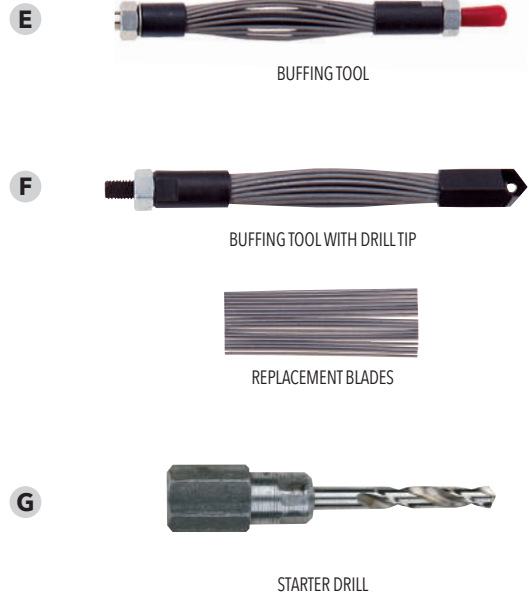
Triangular Scraper Tools are used for removing heavy scale deposits in straight, ferrous tubes. They can only be used in a clockwise (forward) direction and cannot be used in internally enhanced tubes. They are adjustable to a 1/4" range.

**TST-500:** Triangular Scraper Tool  
for tubes 1/2"- 3/4" I.D. ....

**TST-500-3:** Replacement blade  
(tool requires Qty 2) .....

**TST-750:** Triangular Scraper Tool  
for tubes 3/4"- 1" I.D. ....

**TST-750-3:** Replacement blade  
(tool requires Qty 2) .....



### E. F. 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. Buffing tools can only be used in a clockwise (forward) direction and cannot be used in internally enhanced tubes.

**GTC-203P:** Buffing Tool for tubes 5/16"- 1/2" I.D. .

**GTC-203PDT:** Same as GTC-203 with drill tip .....

**GTC-205:** Buffing Tool for tubes 1/2"- 9/16" I.D. ....

**GTC-205DT:** Same as GTC-205 with drill tip .....

**GTC-206:** Buffing Tool for tubes 5/8"- 1" I.D. ....

**GTC-206DT:** Same as GTC-206 with drill tip .....

**GTC-207:** Replacement Metal Blades for GTC-203P .....

**GTC-208A:** Replacement Metal Blades for GTC-205....

**GTC-208B:** Replacement Metal Blades for GTC-206....

### G. STARTER DRILLS

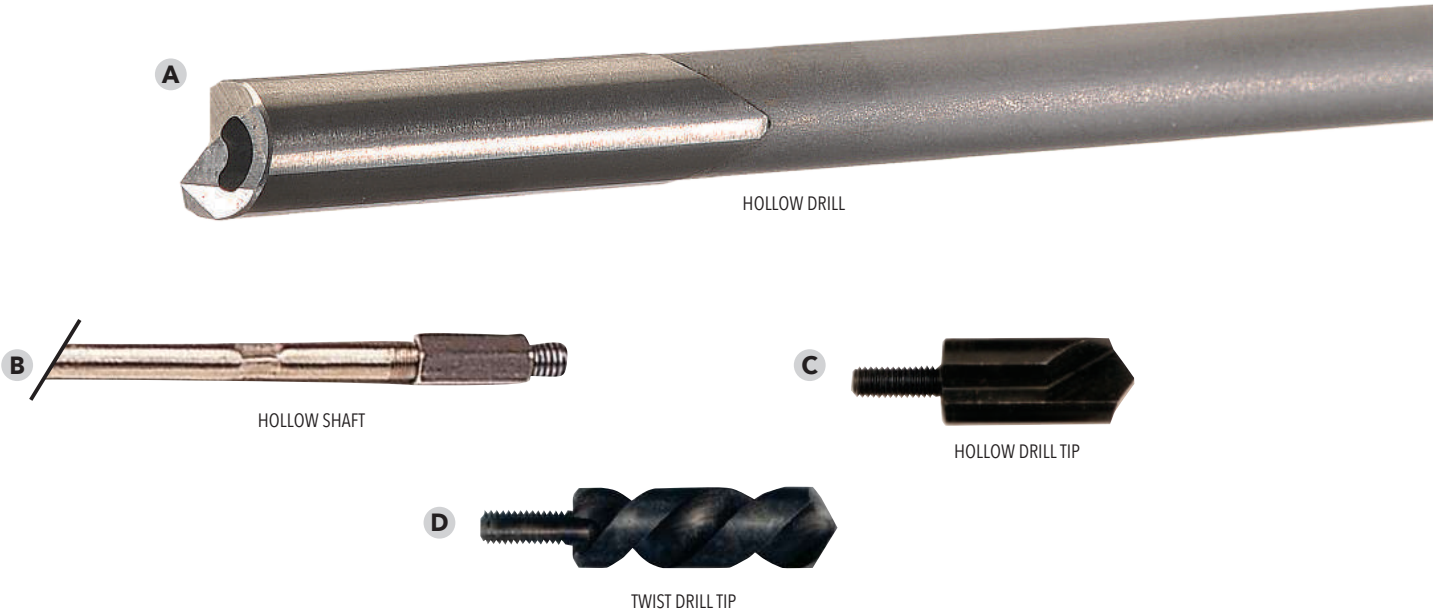
Starter Drills are used for making pilot holes in deposits of completely clogged tubes.

**GTC-975A:** Starter Drill for tubes 3/16"-1/4" I.D.....

**GTC-975B:** Starter Drill for tubes 3/8" I.D. and up ..

# BRUSHES AND CLEANING TOOLS FOR PSM-500

## DRILLS, SHAFTS, AND CUTTING TOOLS



### A. HOLLOW DRILLS

Hollow Drills are used for cleaning severely or completely clogged tubes. (Effective length 33" for 3' drills and 45" for 4' drills.)

**GTC-960-3:** Hollow Drill, 3/16" x 3' .....

**GTC-961-3:** Hollow Drill, 1/4" x 3' .....

*Note: Hollow Drills are available in diameters from 1/8"-3/4" up to 6' long.*

### B. HOLLOW SHAFTS

Hollow Shafts adapt brushes, buffing tools, hollow carbide drills and twist drills to PSM-500.

**GTC-964-3:** Hollow Shaft, 3' long with coupling for 1/4" brushes .....

*Note: GTC-964 Hollow Shaft is available up to 6' long. To order, change suffix on GTC-964 to length specifications (in feet).*

**GTC-965-3:** Hollow Shaft, 3' long with coupling for 5/16" brushes, coupling for 3/8" brushes, and coupling for 7/16" brushes and all buffing tools for 5/16"-1" I.D. tubes....

**GTC-965-KIT:** Hollow Shaft Kit for tubes 5/16"-1/2" I.D. including three 39" long hollow extension shafts with couplings to form a 10' shaft, a 12" short hollow extension shaft, coupling to connect shaft to PSM-500 and couplings to connect brushes, buffing tools, hollow carbide drills and twist drills to shaft.....

**GTC-989-KIT:** Hollow Shaft Kit for tubes 9/16"-1" I.D. including three GTC-998 Hollow Extension Shafts with couplings to form a 10' long shaft, a 1' shaft, coupling to connect shaft to PSM-500, coupling to connect brushes, buffing tools, hollow carbide drills and twist drills to shaft and assembly tools.....

**GTC-998:** Hollow Extension Shaft, 39" long for GTC-989-KIT .....

### C. HOLLOW DRILL TIPS

Hollow Drill Tips attach to Hollow Shafts and are used to clean severely or completely clogged tubes.

**GTC-RWB-031:** Hollow Drill Tip, 5/16" .....

**GTC-RWB-037:** Hollow Drill Tip, 3/8" .....

**GTC-RWB-042:** Hollow Drill Tip, 7/16" .....

**GTC-RWB-050:** Hollow Drill Tip, 1/2" .....

**GTC-RWB-056:** Hollow Drill Tip, 9/16" .....

**GTC-RWB-062:** Hollow Drill Tip, 5/8" .....

**GTC-RWB-075:** Hollow Drill Tip, 3/4" .....

**GTC-RWB-100:** Hollow Drill Tip, 1" .....

### D. TWIST DRILL TIPS

Twist Drill Tips attach to Hollow Shafts and are used to clean severely or completely clogged tubes.

**GTC-TD-031:** Twist Drills Tip, 5/16" .....

**GTC-TD-037:** Twist Drills Tip, 3/8" .....

**GTC-TD-042:** Twist Drills Tip, 7/16" .....

**GTC-TD-050:** Twist Drills Tip, 1/2" .....

**GTC-TD-056:** Twist Drills Tip, 9/16" .....

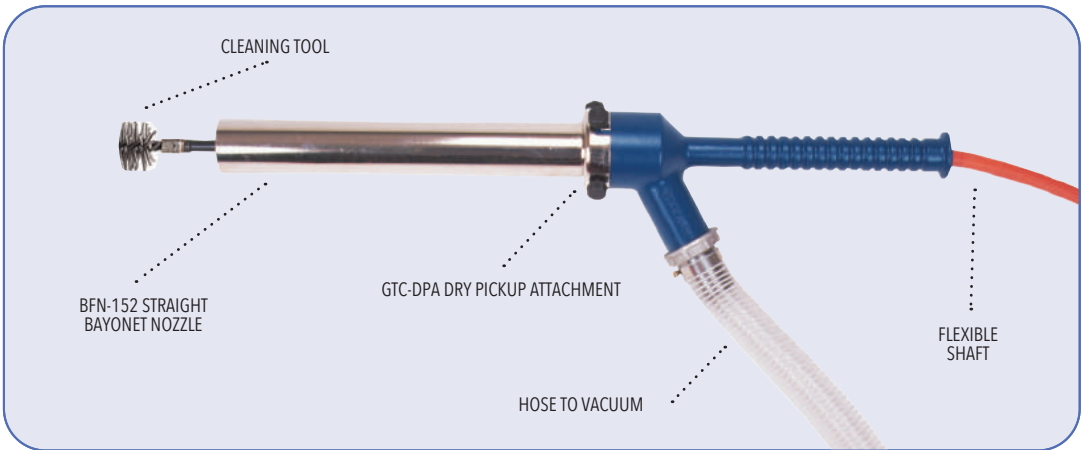
**GTC-TD-062:** Twist Drills Tip, 5/8" .....

**GTC-TD-075:** Twist Drills Tip, 3/4" .....

**GTC-TD-100:** Twist Drills Tip, 1" .....

# BOILER CLEANING SYSTEMS

FOR TUBES 1" I.D. AND UP  
INCLUDES VACUUMS



**RAM-4X-ID-20-KIT:** Firetube Boiler Cleaner, including mobile dolly, tool storage box, single-direction foot switch, dry pickup attachment, 2" x 12' hose, 18" Straight Bayonet Nozzle (specify diameter), 25' GTC-721G Flexible Shaft, spring filled brush and 20 gallon stainless steel soot vacuum with dolly .....

**RAM-4X2A-20-KIT:** Same as RAM-4X-20-KIT except 2 HP, 230V .....

**RAM-4X-ID-15-KIT:** Firetube Boiler Cleaner, including mobile dolly, tool storage box, single-direction foot switch, dry pickup attachment, 2" x 12' hose, 18" Straight Bayonet Nozzle (specify diameter), 25' GTC-721G Flexible Shaft, spring filled brush and 15 gallon stainless steel soot vacuum with dolly .....

**RAM-4X2A-15-KIT:** Same as RAM-4X-15-KIT, except 2 HP, 230V .....

**RAM-4X-ID-30-KIT:** Firetube Boiler Cleaner, including mobile dolly, tool storage box, single-direction foot switch, dry pickup attachment, 2" x 12' hose, 18" Straight Bayonet Nozzle (specify diameter), 25' GTC-721G Flexible Shaft, spring filled brush and 30 gallon steel soot vacuum with dolly .....

**RAM-4X2A-30-KIT:** Same as RAM-4X-30-KIT, except 2 HP, 230V .....

**RAM-4X-ID-55-KIT:** Firetube Boiler Cleaner, including mobile dolly, tool storage box, single-direction foot switch, dry pickup attachment, 2" x 12' hose, 18" Straight Bayonet Nozzle (specify diameter), 25' GTC-721G Flexible Shaft, spring filled brush and 55 gallon steel soot vacuum with dolly .....

**RAM-4X2A-55-KIT:** Same as RAM-4X-55-KIT except 2 HP, 230V .....



// .....  
We take care of 12 boilers here...Cleaning them is a constant job in the winter – you’ve got to stay with it. Goodway’s machine makes the job go a lot quicker. – *Benny M*  
..... //

## DRY PICKUP ATTACHMENT

The GTC-DPA can be used with the RAM-4X, RAM-4X2A, AWT-100 and AWT-100X Tube cleaners for the recovery of dry deposits. After connecting the vacuum (see page 21) the operator simply inserts a special dry application flexible shaft (GTC-721G or GTC-821) through the Dry Pickup Attachment and into the tube. While the operator feeds the rotating shaft through the tube, the cleaning tool breaks up deposits which are immediately pulled into the vacuum drum.

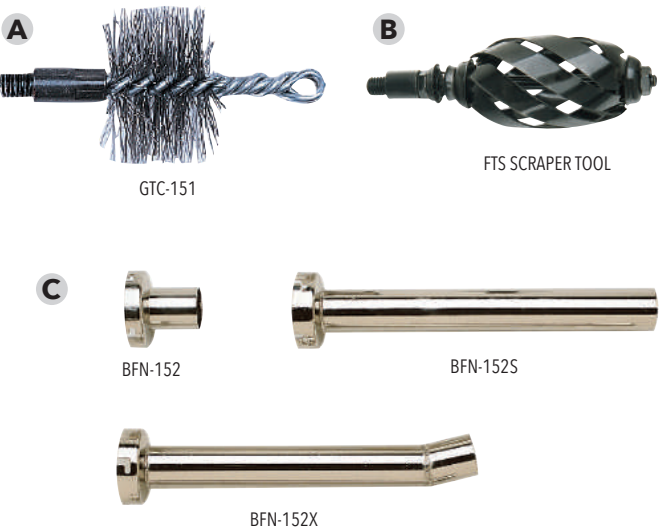
**GTC-DPA:** Dry Pickup Attachment, including 2" x 12' hose with quick connect fitting (order nozzle below) .....

**BFN-152S:** Straight Bayonet Nozzle, 18" long for tubes 1 3/8", 1 5/8", 2", 2 1/2", 3" or 3 1/2" O.D.....

**BFN-152SA:** Straight Bayonet Nozzle, 18" long for tubes 4" O.D.....

| RAM-4X2A             |   |
|----------------------|---|
| Motor Power          | 2 HP  |
| Input Power          | Standard: 11.5 amps, 230V, 60 Hz AC<br>Optional: 11.5 amps, 230V, 50 Hz                                       |
| Power Supply Cord    | 21', 14-3 GFCI  |
| Flexible Shaft Speed | 1,725 rpm (can be decreased to 862.5 rpm by changing pulley ratio request 2:1 ratio drive for greater torque) |
| Dimensions           | 37" high x 20" wide x 17" deep  |
| Weight               | 75 lbs  |

# MUST HAVE SAM-3 ACCESSORIES



## A. STEEL BRUSHES

Steel brushes are recommended for removing soot and light scale deposits.

**GTC-151:** Steel brushes for tubes 1 3/8", 1 5/8", 2", 2 1/2", 3", 3 1/2" or 4" O.D.....

## B. FTS SCRAPER TOOLS

FTS Scraper Tools are medium action, spring-loaded tools. They are used for removing light scale deposits in boiler firetubes when steel brushes do not remove all deposits. Ferrule extension required.

**FTS-200:** Scraper Tool for tubes 2" O.D.....

**FTS-250:** Scraper Tool for tubes 2 1/2" O.D.....

**FTS-300:** Scraper Tool for tubes 3" O.D.....

## FERRULE EXTENSIONS

Scraper tools require ferrule extensions. Select the ferrule extension to match the bayonet nozzle in use.

**FE-375:** Ferrule Extension for scraper tools when using BFN-152 Short Bayonet Nozzles.....

**FE-2100:** Ferrule Extension for scraper tools when using BFN-152S or BFN-152SA Straight Bayonet Nozzles ..

**Note:** Scraper tools cannot be used with BFN-152X or BFN-152XA Offset Bayonet Nozzles.

## CARRYING CASE

**SC-682:** Carrying case for SAM-3 Boiler Firetube Punching Machine and accessories.....



## C. STANDARD BAYONET NOZZLES

**BFN-152:** Short Bayonet Nozzle, 3 1/2" long for tubes 1 3/8", 1 5/8", 2", 2 1/2", 3" or 3 1/2" O.D.....

**BFN-152S:** Straight Bayonet Nozzle, 18" long for tubes 1 3/8", 1 5/8", 2", 2 1/2", 3" or 3 1/2" O.D. ....

**BFN-152SA:** Straight Bayonet Nozzle, 18" long with ferrule extension for tubes 4" O.D. ....

**BFN-152X\*:** Offset Bayonet Nozzle, 18" long for tubes 1 3/8", 1 5/8", 2", 2 1/2", 3" O.D.....

**BFN-152XA:** Offset Bayonet Nozzle, 18" long with ferrule extension for tubes 4" O.D. ....

**Note:** Contact factory if longer Straight or Offset Bayonet Nozzles are needed for your application.

**Note:** When ordering bayonet nozzles or brushes, specify part number and size according to the table (order by tube O.D.). Bayonet nozzle and brush diameters will fit tube I.D.

\*Call for pricing for 3 1/2" O.D.

| TUBE SIZES                |                              |
|---------------------------|------------------------------|
| Standard Boiler O.D. Size | Approximate Boiler I.D. Size |
| 1 3/8"                    | 1 1/4"                       |
| 1 5/8"                    | 1 1/2"                       |
| 2"                        | 1 3/4"-1 7/8"                |
| 2 1/2"                    | 2 1/4"-2 3/8"                |
| 3"                        | 2 3/4"-2 7/8"                |
| 3 1/2"                    | 3 1/4"                       |
| 4"                        | 3 3/4"                       |

# KEEP YOUR TUBE CLEANER RUNNING IN TOP SHAPE



## RAM SERVICE KITS



RAM-5DC SERVICE KIT



RAM-PRO SERVICE KIT



RAM-4 SERVICE KIT

### RAM PRO SERVICE KIT

Regular maintenance of the RAM-PRO will ensure it is ready when you need it. This kit, with its detailed instructions, provides all of the parts necessary to keep your machine operating efficiently and reliably.

**RAMPRO-SVC-KIT:** Kit includes 824 Seal, 825 Bearing, 826 Snap Ring, 803 Screen Washer, 944 Spacer, 979 Drive Shaft, 949 Snap Ring, 935 12" Water Hose, 9648 Hose Clamp, 9008 Rubber Foot (package of four).....

### RAM-4 SERVICE KIT

Bring your RAM-4 back into shape with a rebuild kit including all the major wear items. This includes illustrated instructions, upper and lower bearings, manifold snap ring, seal, shaft/ driver, screen washer and even the screws to put everything back together.

**RAM4-SVC-KIT:** RAM-4 Service Kit includes, 805 O-ring, 824 Seal, 825 Bearing, 826 Snap Ring, 833 Lower Bearing, 873 Shaft/Driver, 803 Screen Washer and HWST-1037-P Cover Screws (package of six).....

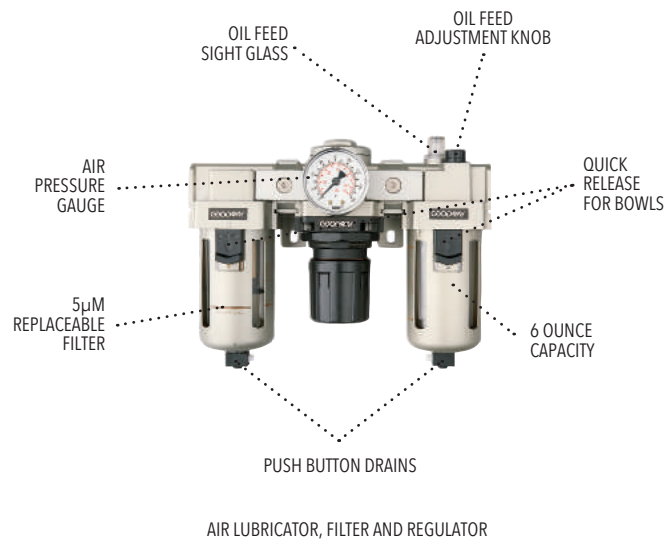
### RAM-5DC SERVICE KIT

The RAM-5DC Speed-Feed Tube Cleaner is a hard working machine, but after thousands of tubes it could probably use a break. Here's a service kit to get your machine back up to speed. The kit has everything from illustrated instructions, shaft/driver, O-ring, seal, snap ring and bearings to a new set of Speed-Feed Gears, and even replacement parts for the Speed-Feed gun.

**R5-SVC-KIT-3:** RAM-5DC Service Kit includes, 805 O-ring, 824 Seal, 825-R5 Bearings (package of ten), 826 Snap Ring, 833-1 Lower Bearing, 2229 Shaft/Driver, 803 Screen Washer, SFG-703 Speed-Feed Gears, 2224 Trigger, 2225 Trigger Pads (package of two), 2245 Trigger Pin and HWST-1037-P Cover Screws (package of six).....

## ESSENTIAL ACCESSORIES, BETTER PERFORMANCE

### AIR TREATMENT, SUPPLY HOSES AND STORAGE OPTIONS



AIR SUPPLY HOSES



WATER SUPPLY HOSES

#### AIR LUBRICATOR, FILTER AND REGULATOR

Air-operated equipment will last longer and run more efficiently with proper treatment of the air supply.

**Note:** All modules have 1/4" NPT ports. Maximum pressure 150 PSI. Maximum temperature 140°F. Maximum air displacement 140 CFM.

**GTC-705-4:** Combination Air Lubricator, Filter and Regulator.....

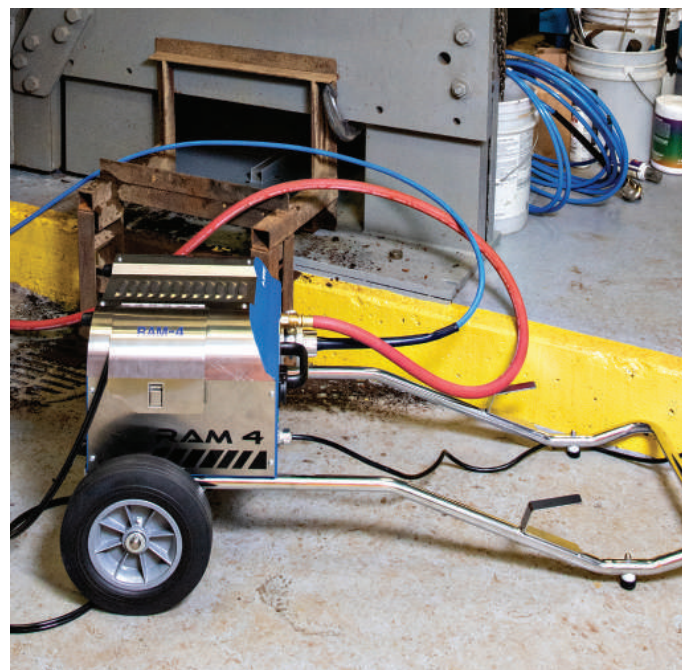
#### AIR SUPPLY HOSES

Made from 1/2" I.D. x 50' abrasion-resistant black rubber, Goodway Air Supply Hoses provide high CFM airflow to pneumatic machinery for maximum power. They can be used for a variety of industrial applications.

**Note:** Maximum pressure 200 PSI.

**ASH-B50-A:** Air Supply Hose for AWT-100 and GSL-705.....

**ASH-B50-G:** Air Supply Hose for AWT-100X, JCL JetLaunch®, JL JetLoad®, LD-2X2 and QS-300 Quick Shot® .....



#### HEAVY DUTY WATER SUPPLY HOSES

Made from 5/8" I.D. x 50' abrasion resistant red rubber, Goodway Water Supply Hoses provide higher GPM waterflow than conventional 1/2" I.D. garden hoses. High flow is important for adequate flushing of tubes and for providing sufficient volume to all Goodway equipment. Use with water up to 180°F. Stays flexible to 25°F. It is ideal for any application requiring a high flow, high quality hose.

**Note:** Maximum pressure 150 PSI.

**WSH-R50:** Red Rubber Water Supply Hose .....

#### HEAVY-DUTY CONTRACTOR DOLLY

The Goodway Heavy-Duty Contractor Dolly is designed for use with all RAM-4, RAM-4X, RAM-5DC, AWT-100X and AQ-R1500 machines. It features an increased height, large pneumatic tires and bumpers for easier maneuverability and stair climbing ability, a storage rack for flexible shafts and water hoses, and a large storage bin with drainage for brushes and other accessories.



**RAM-DOLLY-C:** Heavy-Duty Contractor Dolly.....

**Note:** Available for upgrade with a machine.

# MUST HAVE ADD-ONS FOR BETTER RESULTS



## CHILLER BIB®

The Goodway Chiller Bib captures dirty water and debris during tube cleaning operations, saving time and money on post-job cleanup. The unit consists of a 24" wide x 12" deep reusable aluminum frame, a squeegee diverter that affixes to the tube sheet, and a disposable poly bag that is equipped with a 25' integrated hose to funnel the water and debris to the nearest drain.

It features two oversized soft nylon brushes, which slide into the chiller's tubes, to securely fasten the Chiller Bib to the tube sheet. These brushes also slide in channels on the frame, allowing it to

move across the tube sheet for optimum positioning. A double edge combination of an EPDM gasket with a strip of underlying nylon bristles provides for a snug fit against an irregular tube sheet.

**9401-3:** Chiller Bib Bag (package of three) .....

**BIB-KIT-3:** Chiller Bib Frame with three Chiller Bib Bags.....

**BAG-KIT-10:** Chiller Bib Bag (package of ten) .....



**NO MORE  
WATER  
CLEAN UP!**

U.S. PATENT NO.  
6863116

CHILLER BIB BAG  
WITH FRAME



## HEAVY-DUTY PERFORMANCE

**GOODWAY FLEXIBLE SHAFTS  
OUTLAST ALL OTHERS  
ON THE MARKET!**

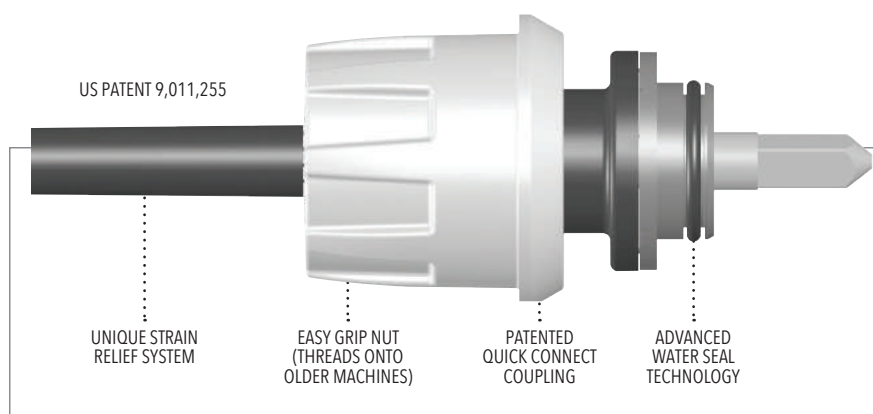


### Quick Connect Shaft Coupling

#### COMPATIBLE WITH BOTH OLD AND NEW MACHINES

No more lining up and screwing on the disconnect nut. The shafts simply snap into place, saving valuable time during set up.

For existing Goodway tube cleaning machine users, there is no need for any kind of adapter or modification. The quick connect shaft can also be retrofitted to older machines with an existing thread on manifold connection.



### Flexible Shafts Leading the Industry

Goodway's exclusive Quick Connect Shaft coupling and Quick Connect Tool coupling allow you to connect to the tube cleaner and change brushes up to 30 times faster than standard threaded shaft couplings. Quick Connect shafts feature a tough abrasion resistant casing designed to withstand harsh industrial environments.

The high-visibility blue nylon exterior reduces tripping hazards for added safety. The shaft's unique strain relief system is custom-molded with a variable thickness to allow for a gradual radial bend that is far superior to a spring or coiled wire. A galvanized spring steel core, comprised of multiple counter-rotated windings, provides unmatched performance.

Shaft life is increased with the use of a self-lubricating shaft insert for reduced friction and extended durability. A repositionable shaft stop lets you know when the end of the tube has been reached.

### Quick connect couplings engineered to save time

#### STANDARD THREADED COUPLING



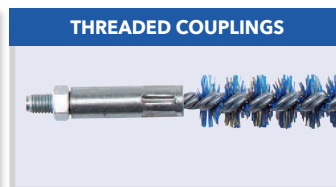
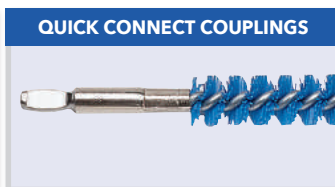
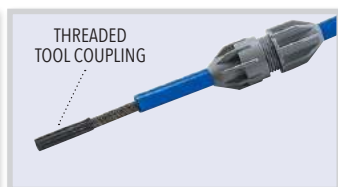
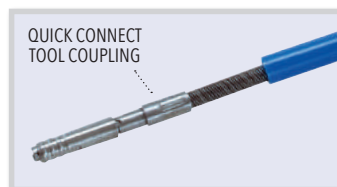
**Note:** To order threaded, there is no "Q" in the part number.

**GTC-702/703/704 ONLY**  
PATENT NO. 6672794

#### QUICK CONNECT COUPLING



**Note:** To order quick connect, there will be a "Q" in the part number.



# FLEXIBLE SHAFTS TO HANDLE ALL APPLICATIONS

FOR TUBES UP TO 1" I.D.

| FLEXIBLE SHAFT DIMENSIONS |             |                                |
|---------------------------|-------------|--------------------------------|
| Shaft No.                 | Casing O.D. | Tool End Thread                |
| 701                       | 1/4"        | 8-32 female                    |
| 702                       | 3/8"        | 1/4-28 female or Quick Connect |
| 703                       | 1/2"        | 1/4-28 female or Quick Connect |
| 704                       | 9/16"       | 1/4-28 female or Quick Connect |
| 720                       | 3/4"        | 1/2-12 female                  |
| 721G                      | 7/8"        | 1/2-12 female                  |
| 821                       | 7/8"        | 1/2-12 female                  |

## WET APPLICATIONS

### FLEXIBLE SHAFTS (NYLON CASING) FOR TUBES 1/4"-3/8" I.D.

**GTC-701-12:** 12' .....

**GTC-701-25:** 25' .....

*\*Note: Call for smaller tube options.*



### FLEXIBLE SHAFTS (NYLON CASING) FOR TUBES 7/16"-1/2" I.D.



QUICK CONNECT



STANDARD

**GTC-702Q-12:** 12'..

**GTC-702Q-17:** 17'..

**GTC-702Q-25:** 25'..

**GTC-702Q-35:** 35'..

**GTC-702Q-45:** 45'..

**GTC-702-12:** 12'.

**GTC-702-17:** 17'.

**GTC-702-25:** 25'.

**GTC-702-35:** 35'.

**GTC-702-45:** 45'.



### FLEXIBLE SHAFTS (NYLON CASING) FOR TUBES 5/8" - 1" I.D.



QUICK CONNECT



STANDARD

**GTC-704Q-12:** 12'.

**GTC-704Q-17:** 17'.

**GTC-704Q-25:** 25'.

**GTC-704Q-35:** 35'.

**GTC-704Q-45:** 45'.

**GTC-704Q-60:** 60'.

**GTC-704-12:** 12'.

**GTC-704-17:** 17'.

**GTC-704-25:** 25'.

**GTC-704-35:** 35'.

**GTC-704-45:** 45'.

**GTC-704-60:** 60'.

**GTC-704-75:** 75'.

### FLEXIBLE SHAFTS (NYLON CASING) FOR TUBES 9/16"-1" I.D.



QUICK CONNECT



STANDARD

**GTC-703Q-12:** 12'.

**GTC-703Q-17:** 17'.

**GTC-703Q-25:** 25'.

**GTC-703Q-35:** 35'.

**GTC-703Q-45:** 45'.

**GTC-703Q-60:** 60'.

**GTC-703Q-75:** 75'.

**GTC-703-12:** 12'.

**GTC-703-17:** 17'.

**GTC-703-25:** 25'.

**GTC-703-35:** 35'.

**GTC-703-45:** 45'.

**GTC-703-60:** 60'.

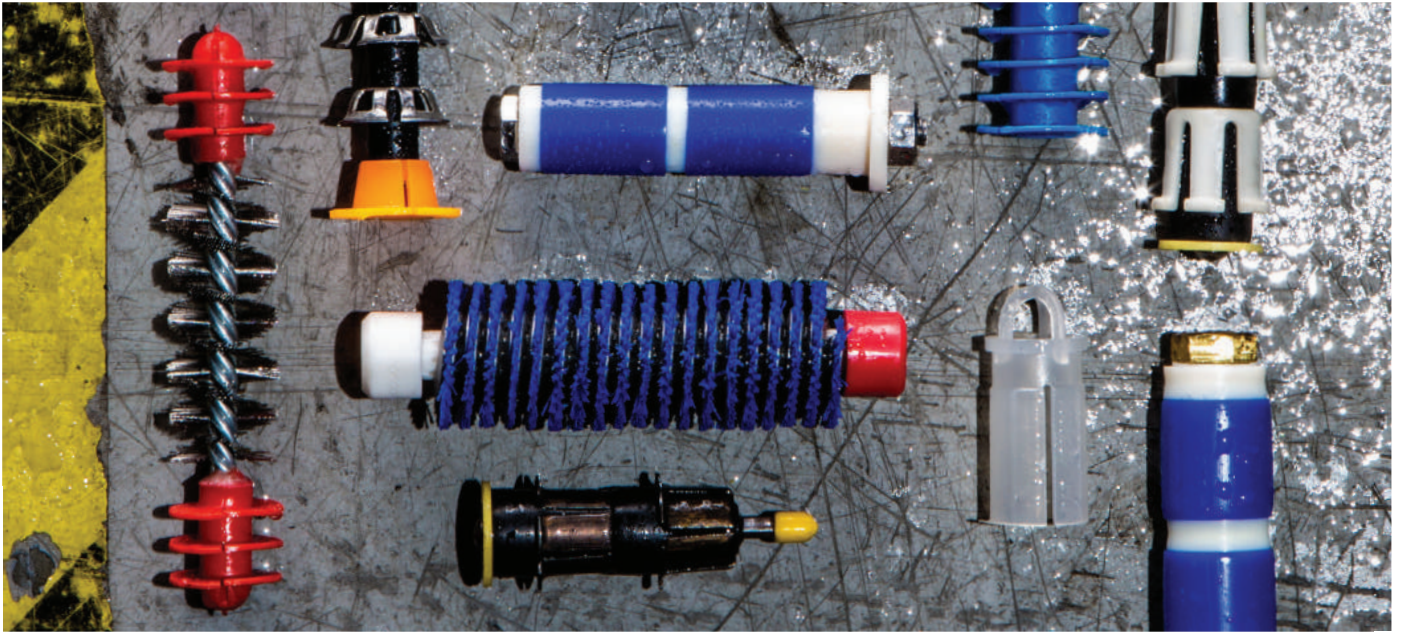
**GTC-703-75:** 75'.

**Note:** GTC-702Q, GTC-703Q and GTC-704Q Flexible Shafts are available with standard threaded tool couplings.

**Note:** GTC-702, GTC-703, GTC-703Q, Flexible Shafts for use with a RAM-5DC. Speed-Feed Tube Cleaner requires a special shaft stop. To order, add the suffix **R5** to the part number.



## FOR TUBES 1" I.D. AND UP



### WET APPLICATIONS



GTC-720

#### FLEXIBLE SHAFTS (NYLON CASING) FOR TUBES 1" I.D. AND UP



STANDARD

**GTC-720-15:** 15' ..

**GTC-720-25:** 25' ..

**GTC-720-35:** 35' ..

**GTC-720-50:** 50' ..

### HIGH TEMPERATURE DRY APPLICATIONS



GTC-721G

#### FLEXIBLE SHAFTS (HEAT RESISTANT 300°F RIGID COVERED STEEL CASING) FOR TUBES 1" I.D. AND UP

**GTC-721G-15:** Flexible Shaft, 15'.

**GTC-721G-25:** Flexible Shaft, 25'

**GTC-721G-35:** Flexible Shaft, 35'

**GTC-721G-50:** Flexible Shaft, 50'



GTC-821

#### FLEXIBLE SHAFTS (HIGH TEMPERATURE TOLERANT 450°F STAINLESS STEEL CASING) FOR TUBES 1" I.D. AND UP

**GTC-821-15:** Flexible Shaft, 15' .....

**GTC-821-25:** Flexible Shaft, 25' .....

**GTC-821-35:** Flexible Shaft, 35' .....

**GTC-821-50:** Flexible Shaft, 50' .....

# DIY SHAFT MAINTENANCE

## CUTTING, CRIMPING, COUPLING AND MORE



CARRYING BAG

### CARRYING BAG

This heavy-duty 26" diameter carrying bag will store all size flexible shafts as well as basic accessories.

**SB-26:** Carrying Bag.....



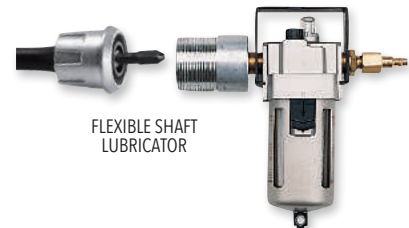
1. CUT SHAFT



2. FORM SHAFT



3. CRIMP ON REPLACEMENT COUPLING



FLEXIBLE SHAFT LUBRICATOR

### FLEXIBLE SHAFT CUTTING AND CRIMPING PRESS

The Flexible Shaft Cutting and Crimping Press is specifically designed for use with Goodway GTC-701, GTC-702 and GTC-703 Flexible Shafts. This unique tool will allow the user to quickly cut and repair flexible shafts in the field, without the use of any other tools.

**PCC-BASE:** Flexible Shaft Cutting and Crimping Press with cutting dies .....

**Note:** Crimping dies not included. Order crimping dies below.

**DIE-SET-701:** Dies for GTC-701 Flexible Shafts..

**DIE-SET-702:** Dies for GTC-702 Flexible Shafts..

**DIE-SET-703:** Dies for GTC-703 Flexible Shafts..

**DIE-SET-CUT:** Replacement cutting die .....

### FLEXIBLE SHAFT LUBRICATOR

The Goodway Flexible Shaft Lubricator allows for fast, easy protection of flexible shafts in between uses. Simply fill the lubricator with water-soluble lubricant, connect the flexible shaft and attach a compressed air line (maximum 150 PSI – quick connect fits Goodway air line #ASH-B50-A – see page 23).

The flow of air and lubricant displaces water and coats the shaft core to protect it from harmful rust and corrosion. Lubricant flushes out with water when shaft is used again.

**GSL-705:** Flexible Shaft Lubricator with quick connect ...

**GSL-LU1:** Lubricant for flexible shaft lubricator, 16 oz.



CRIMPING BLOCK

### CRIMPING BLOCK

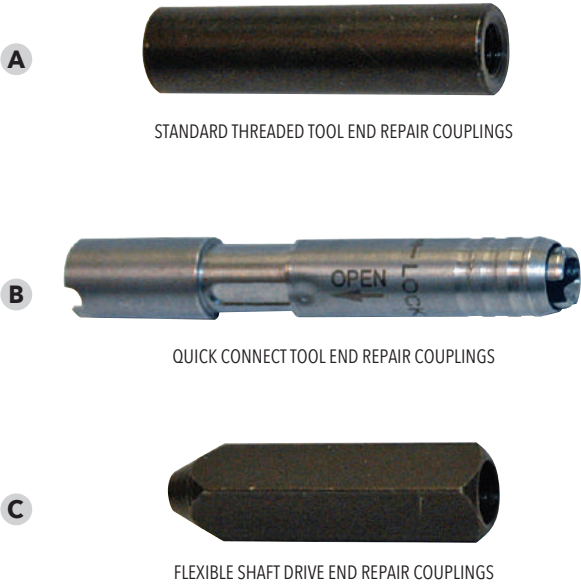
Goodway's Crimping Block provides the user with quick, convenient methods for performing repairs of flexible shafts in the field. Used properly, each will permanently attach repair couplings, extending the life of the flexible shaft, while reducing downtime when a repair is needed.

**GTC-CT5:** Crimping Block with punch.

**GTC-CTP:** Replacement Punch.....

# Flexible Shaft Repair Couplings

Couplings are available for quick connect and standard threaded shaft. Please check your shaft before ordering.



- A. STANDARD THREADED TOOL END REPAIR COUPLINGS**
  - 717-1:** Coupling for GTC-701 Flexible Shafts .....
  - 717-2:** Coupling for GTC-702 Flexible Shafts .....
  - 717-3:** Coupling for GTC-703 Flexible Shafts .....
  - 717-6:** Coupling for GTC-704 Flexible Shafts .....
  - 717-4:** Coupling for GTC-720/721/721G/821 Flexible Shafts .....
- B. QUICK CONNECT TOOL END REPAIR COUPLINGS**
  - 717-2Q:** Coupling for GTC-702Q Flexible Shafts .....
  - 717-3Q:** Coupling for GTC-703Q Flexible Shafts .....
  - 717-6Q:** Coupling for GTC-704Q Flexible Shafts .....
- C. FLEXIBLE SHAFT DRIVE END REPAIR COUPLINGS**
  - 713-1:** Coupling for GTC-701 Flexible Shafts .....
  - 713-2:** Coupling for GTC-702 Flexible Shafts .....
  - 713-3:** Coupling for GTC-703 Flexible Shafts .....
  - 713-5:** Coupling for GTC-704 Flexible Shafts .....
  - 713-6:** Coupling for GTC-720/721/721G/821 Flexible Shafts .....

# Flexible Shaft Repair Kits

Flexible shaft repair kits include four drive end repair couplings, four thrust washers, four tool end repair couplings, four O-rings, one crimping tool with punch, one flexible shaft lubricator with quick disconnect, and two 16 oz bottles of lubricant for flexible shaft lubricator.



- D. QUICK CONNECT FLEXIBLE SHAFT REPAIR KITS**
  - REP-702Q-KIT:** Repair Kit for GTC-702Q Flexible Shafts .....
  - REP-703Q-KIT:** Repair Kit for GTC-703Q Flexible Shafts .....
  - REP-704Q-KIT:** Repair Kit for GTC-704Q Flexible Shafts .....
- STANDARD THREADED FLEXIBLE SHAFT REPAIR KITS**
  - REP-701-KIT:** Repair Kit for GTC-701 Flexible Shafts .....
  - REP-702-KIT:** Repair Kit for GTC-702 Flexible Shafts .....
  - REP-703-KIT:** Repair Kit for GTC-703 Flexible Shafts .....
  - REP-704-KIT:** Repair Kit for GTC-704 Flexible Shafts .....
  - REP-720-KIT:** Repair Kit for GTC-720 Flexible Shafts .....
  - REP-721-KIT:** Repair Kit for GTC-721G high temp dry flexible shafts .....
  - REP-821-KIT:** Repair Kit for GTC-821 high temp dry flexible shafts .....

Love the reminder phone call from our local rep. I had forgot to place my end of the summer order for parts and brushes and the phone call put me back on track. Thanks guys! – Jim G

# INNOVATIVE OPTIONS FOR ENHANCED TUBES

FOR TUBES UP TO 1" I.D.

| BRUSH SIZE   | SHAFT COMPATIBILITY                    |
|--|--|
| 1/4", 5/16", 3/8"                                      | GTC-701                                |
| 7/16", 1/2"  | GTC-702, GTC-702Q                      |
| 9/16", 5/8", 11/16", 3/4",<br>13/16", 7/8", 15/16", 1" | GTC-703, GTC-703Q<br>GTC-704, GTC-704Q |

TUBE O.D., I.D., & GAUGE (B.W.G.)

A - TUBE O.D. IS THE MEASURED OUTSIDE DIAMETER OF A TUBE.  
B - TUBE I.D. IS THE MEASURED INSIDE DIAMETER OF A TUBE.  
C - TUBE GAUGE (B.W.G.) IS THE WALL THICKNESS OF THE TUBE.

## BRUSHES FOR INTERNALLY ENHANCED TUBES

### “PATRIOT®” DUAL DIAMETER NYLON BRUSHES

“Patriot” Dual Diameter Nylon Brushes are recommended for removing soft deposits (mud, algae, etc.) in straight, ferrous and nonferrous internally enhanced tubes. The large diameter end cleans into the grooves, while its small diameter end cleans the lands of a tube’s rifling.



AVAILABLE IN BAGS OF 25

QUICK CONNECT

STANDARD

- ENN-062-Q: 5/8" I.D. ....
- ENN-062: .....
- ENN-090-Q: 15/16" I.D. ....
- ENN-090: .....

### 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 large diameter end cleans into the grooves, while its small diameter end cleans the lands of a tube’s rifling.



AVAILABLE IN BAGS OF 15

QUICK CONNECT

STANDARD

- ESGB-Q-050: 1/2" I.D. ....
- ESGB-050: .....
- ESGB-Q-062: 5/8" I.D. ....
- ESGB-062: .....
- ESGB-Q-075: 3/4" I.D. ....
- ESGB-075: .....
- ESGB-Q-100: 1" I.D. ....
- ESGB-100: .....

BRUSHES DESIGNED TO CLEAN THE INTERNAL LANDS AND GROOVES

SHAFT CASING

WATER FLUSH

SHAFT CORE

LARGE DIAMETER OF BRUSH CLEANS GROOVES

SMALL DIAMETER OF BRUSH CLEANS LANDS

TURBO TIP HELPS DISLODGE DEPOSITS



# HEAVY-DUTY BRUSHES FOR EXCESSIVE BUILD-UP

FOR TUBES UP TO 1" I.D.



QUICK CONNECT COUPLING



PATENT NO. 6672794

PATRIOT BRUSH

THREADED COUPLING



**Note:** To order threaded, there will be no "Q" in the part number.

## BRUSHES FOR SMOOTH BORE TUBES

### BLUE NYLON BRUSHES

Blue Nylon Brushes are recommended for removing soft deposits (mud, algae, etc.) in straight, ferrous and nonferrous tubes. Brush should be equal to or 1/16" smaller than tube I.D. Sizes: 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16" or 1"



7/16"-1" ONLY



BLUE NYLON BRUSHES AVAILABLE IN BAGS OF 15 OR 25 - DEPENDING ON SIZE



QUICK CONNECT



STANDARD

GTC-211Q:.....

GTC-211:.....

### BRASS BRUSHES

Brass Brushes are recommended for removing soft and light scale deposits in straight, ferrous and nonferrous tubes. Brush should be equal to or 1/16" smaller than tube I.D. Sizes: 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16" or 1"



7/16"-1" ONLY



BRASS BRUSHES AVAILABLE IN BAGS OF 15



QUICK CONNECT



STANDARD

GTC-200BQ:.....

GTC-200B:.....

### SPIN-GRIT BRUSHES

Spin-Grit Brushes are recommended for removing soft and light scale deposits in straight, ferrous and nonferrous tubes.



7/16"-1" ONLY



SPIN-GRIT BRUSHES AVAILABLE IN BAGS OF 15



QUICK CONNECT



STANDARD

**SGB-Q-075:** 7/16"-5/8" I.D.....

**SGB-Q-100:** 11/16"-3/4" I.D.....

**SGB-Q-125:** 13/16"-1" I.D.....

**SGB-050:**.....

**SGB-075:**.....

**SGB-100:**.....

**SGB-125:**.....

### STAINLESS STEEL BRUSHES

Stainless Steel Brushes are recommended for removing soft and light scale deposits in straight, ferrous tubes. Brush should be equal to or 1/16" smaller than tube I.D. Sizes: 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16" or 1"



7/16"-1" ONLY



STAINLESS STEEL BRUSHES AVAILABLE IN BAGS OF 15



QUICK CONNECT



STANDARD

GTC-210Q:.....

GTC-210:.....

**Note:** 1/4" and 5/16" threaded brushes require a #C-1 Coupling, and 3/8" threaded brushes require a #C-2 Coupling to connect to GTC-701 Flexible Shafts (couplings supplied with GTC-701 Flexible Shaft order).

# BIG BRUSHES FOR BIG TUBES

## FOR TUBES 1" I.D. AND UP

### BRUSHES FOR SMOOTH BORE 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.



#### 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.

##### NYLON

- TCB-012N: 1 1/4" .....
- TCB-015N: 1 1/2" .....
- TCB-017N: 1 3/4" .....
- TCB-020N: 2" .....
- TCB-022N: 2 1/4" .....
- TCB-025N: 2 1/2" .....
- TCB-027N: 2 3/4" .....
- TCB-030N: 3" .....
- TCB-032N: 3 1/4" .....
- TCB-035N: 3 1/2" .....
- TCB-037N: 3 3/4" .....
- TCB-040N: 4" .....

##### BRASS

- TCB-012B: 1 1/4" .....
- TCB-015B: 1 1/2" .....
- TCB-017B: 1 3/4" .....
- TCB-020B: 2" .....
- TCB-022B: 2 1/4" .....
- TCB-025B: 2 1/2" .....
- TCB-027B: 2 3/4" .....
- TCB-030B: 3" .....
- TCB-032B: 3 1/4" .....
- TCB-035B: 3 1/2" .....
- TCB-037B: 3 3/4" .....
- 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.

##### STAINLESS STEEL

- TCB-012S: 1 1/4" .....
- TCB-015S: 1 1/2" .....
- TCB-017S: 1 3/4" .....
- TCB-020S: 2" .....
- TCB-022S: 2 1/4" .....
- TCB-025S: 2 1/2" .....
- TCB-027S: 2 3/4" .....
- TCB-030S: 3" .....
- TCB-032S: 3 1/4" .....
- TCB-035S: 3 1/2" .....
- TCB-037S: 3 3/4" .....
- TCB-040S: 4" .....
- TCB-042S: 4 1/4" .....
- TCB-045S: 4 1/2" .....
- TCB-047S: 4 3/4" .....
- TCB-050S: 5" .....

### BRUSHES FOR INTERNALLY ENHANCED TUBES



#### 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 lands while the large diameter end cleans the grooves of the tube's rifling.

##### DUAL DIAMETER SPIN-GRIT

- ESGB-125: Dual Diameter Spin-Grit Brush for tubes 1 1/4" I.D. ....

*Note: ESGB brushes require a GTC-706 Coupling to connect to GTC-720, GTC-721, GTC-721G and GTC-821 Flexible Shafts.*

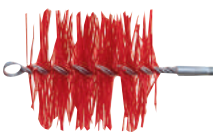


## SPECIAL APPLICATION BRUSHES

### FOR TUBES 1" I.D. AND UP

#### PLASTIC BRUSHES

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



#### 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.



#### 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).



#### 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.



SPRING FILLED BRUSH

#### PLASTIC

|                  |           |
|------------------|-----------|
| <b>TCB-040P:</b> | 4" .....  |
| <b>TCB-050P:</b> | 5" .....  |
| <b>TCB-060P:</b> | 6" .....  |
| <b>TCB-070P:</b> | 7" .....  |
| <b>TCB-080P:</b> | 8" .....  |
| <b>TCB-090P:</b> | 9" .....  |
| <b>TCB-100P:</b> | 10" ..... |
| <b>TCB-110P:</b> | 11" ..... |
| <b>TCB-120P:</b> | 12" ..... |
| <b>TCB-130P:</b> | 13" ..... |
| <b>TCB-140P:</b> | 14" ..... |

#### FOOD GRADE NYLON

|                 |              |
|-----------------|--------------|
| <b>FGB-015:</b> | 1 1/2" ..... |
| <b>FGB-020:</b> | 2" .....     |
| <b>FGB-025:</b> | 2 1/2" ..... |
| <b>FGB-030:</b> | 3" .....     |
| <b>FGB-040:</b> | 4" .....     |
| <b>FGB-050:</b> | 5" .....     |
| <b>FGB-060:</b> | 6" .....     |

#### CARBON STEEL

|                  |           |
|------------------|-----------|
| <b>TCB-050C:</b> | 5" .....  |
| <b>TCB-060C:</b> | 6" .....  |
| <b>TCB-070C:</b> | 7" .....  |
| <b>TCB-080C:</b> | 8" .....  |
| <b>TCB-090C:</b> | 9" .....  |
| <b>TCB-100C:</b> | 10" ..... |
| <b>TCB-110C:</b> | 11" ..... |
| <b>TCB-120C:</b> | 12" ..... |
| <b>TCB-130C:</b> | 13" ..... |
| <b>TCB-140C:</b> | 14" ..... |

#### SPRING FILLED

|                 |  |
|-----------------|--|
| <b>SFB-200:</b> | Spring Filled Brushes for tubes<br>1 3/8", 1 5/8", 2", 2 1/2" or 3" O.D..... |
| <b>SFB-300:</b> | Spring Filled Brushes for tubes<br>2" or 3" I.D.....                         |

# TOOLS FOR TOUGH DEPOSITS

## FOR TUBES UP TO 1" I.D.

### SPECIALTY TOOLS FOR STRAIGHT SMOOTH BORE TUBES

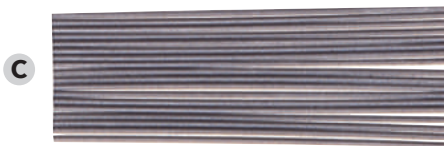
#### CLEANING TOOLS FOR SMOOTH BORE TUBES 1/4 TO 1 INCH I.D.



BUFFING TOOL



BUFFING TOOL WITH DRILL TIP



REPLACEMENT BLADES

#### A. B. C. 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. Buffing tools can only be used in a clockwise (forward) direction and cannot be used in internally enhanced tubes.

**GTC-203:** 5/16" - 3/8" I.D. ....

**GTC-203DT:** with drill tip.....



QUICK CONNECT



STANDARD

**GTC-204Q:** 3/8"-1/2" I.D.....

**GTC-204Q-DT:**.....

**GTC-205Q:** 1/2"- 9/16" I.D..

**GTC-205Q-DT:**.....

**GTC-206Q:** 5/8"- 1" I.D.....

**GTC-206Q-DT:**.....

**GTC-204:** .....

**GTC-204DT:**..

**GTC-205:**.....

**GTC-205DT:**..

**GTC-206:** .....

**GTC-206-DT:**.....

**GTC-207:** Replacement Metal Blades for GTC-20<sup>3</sup> and GTC-204Q.....

**GTC-208A:** Replacement Metal Blades for GTC-205Q.....

**GTC-208B:** Replacement Metal Blades for GTC-206Q.....

**Note:** DT stands for Drill Tip.

#### BUFFERS, CUTTERS, SCRAPERS AND HONING TOOLS FOR TUBES 1/4 TO 1 INCH I.D.



TRIANGULAR SCRAPING TOOL



CARBIDE DRILLS

#### D. TRIANGULAR SCRAPER TOOLS

Triangular Scraper Tools are used for removing heavy scale deposits in straight, ferrous tubes. They can only be used in a clockwise (forward) direction and cannot be used in internally enhanced tubes. They are adjustable to a 1/4" range.

**TST-500:** Triangular Scraper Tool for tubes 1/2" - 3/4" I.D. ....

**TST-750:** Triangular Scraper Tool for tubes 3/4" - 1" I.D.....

#### E. CARBIDE DRILLS

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

**PTB-025:** 1/4" .....

**PTB-037:** 3/8" .....

**PTB-043:** 7/16" .....

**PTB-050:** 1/2" .....

**PTB-056:** 9/16" .....

**PTB-062:** 5/8" .....

**PTB-068:** 11/16" .....

**Note:** All drills run 10% oversize (e.g. PTB-062 Drill is 0.6875" O.D.).



**Note:** All Goodway buffing tools are available with standard threaded couplings. To order threaded, part number does not have a "Q".



ABRASIVE TOOL



H



CUP BRUSH TOOL



WHEEL BRUSH TOOL



GRINDING TIP TOOL

F



FLEX-HONE ABRASIVE TOOL

G



FLEX HUB TOOL

REPLACEMENT METAL  
BLADES

### G. FLEX HUB TOOLS

Flex Hub Tools incorporate centrifugally activated blades for removing hard and heavy deposits in smooth bore, ferrous tubes.

**GTC-225:** Flex Hub for straight tubes 1/2"-1" I.D.....

**GTC-225A:** Replacement Metal Blades  
for GTC-225 (set of three).....

**GTC-225-3:** Replacement ring for GTC-225 .....

### SPECIALTY TOOLS FOR CURVED OR U-BEND TUBES

### H. U-TUBE TOOLS

Consisting of brushes or grinding tips permanently mounted on 18" sections of flexible shafts, U-Tube Tools are designed to snake partially through each side of a U-bend, to thoroughly clean from both sides.

**CBT-075B:** Brass Cup Brush for tubes  
1/2"-3/4" I.D.....

**CBT-075S:** Stainless Steel Cup Brush  
for tubes 1/2"-3/4" I.D. ....

**WBT-075B:** Brass Wheel Brush,  
3/4" diameter .....

**WBT-100B:** Brass Wheel Brush, 1" diameter .....

**WBT-075S:** Stainless Steel Wheel Brush,  
3/4" diameter .....

**WBT-100S:** Stainless Steel Wheel Brush,  
1" diameter .....

**GTT-050:** Grinding Tip Tool, 1/2" diameter .....

**GTT-625:** Grinding Tip Tool, 5/8" diameter .....

### F. FLEX-HONE ABRASIVE TOOLS

Flex-Hone Abrasive Tools are light pressure, soft application honing devices for cleaning smooth bore, 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-025:** 1/4" .....

**FHT-031:** 5/16" .....

**FHT-037:** 3/8" .....

**FHT-043:** 7/16" .....

**FHT-050:** 1/2" .....

**FHT-056:** 9/16" .....

**FHT-062:** 5/8" .....

**FHT-068:** 11/16" .....

**FHT-075:** 3/4" .....

**FHT-087:** 7/8" .....

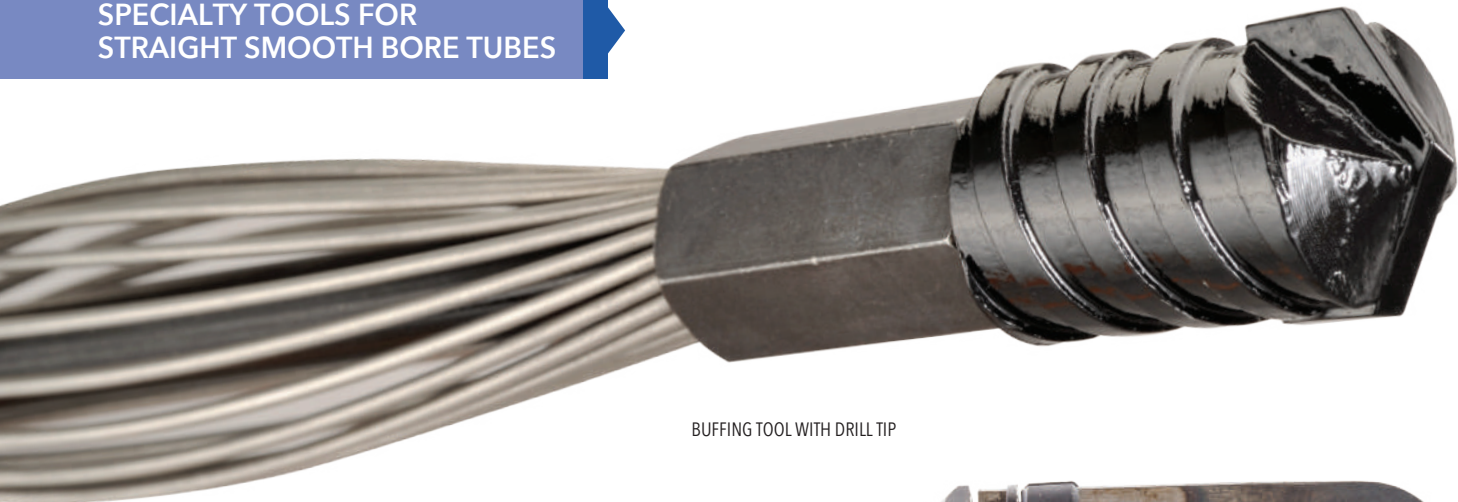
**FHT-100:** 1" .....

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

# SPECIALLY SIZED TOOLS FOR TUBES 1" AND UP

## FOR TUBES 1" I.D. AND UP

### SPECIALTY TOOLS FOR STRAIGHT SMOOTH BORE TUBES



BUFFING TOOL WITH DRILL TIP



BUFFING TOOL



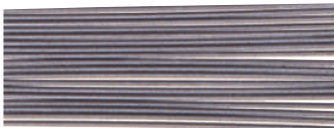
FLEX HUB TOOLS



BUFFING TOOL WITH DRILL TIP



TRIANGULAR SCRAPER TOOL



REPLACEMENT BLADES

#### 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.....

#### 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. Replacement blades available for each size.

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

**TST-1000-3:** Replacement blades (tool requires 2 pieces) .....

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

**TST-1500-3:** Replacement blades (tool requires 2 pieces) .....

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

**TST-2000-3:** Replacement blades (tool requires 2 pieces) .....

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

**TST-2500-3:** Replacement blades (tool requires 2 pieces) .....

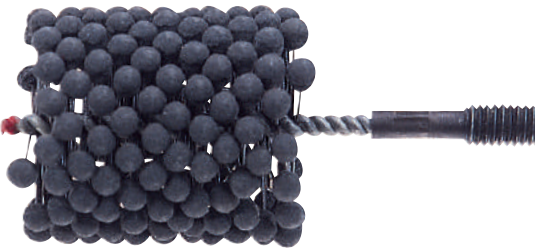
# LARGE TOOLS FOR BIG TIME PERFORMANCE

## FOR TUBES 1" I.D. AND UP



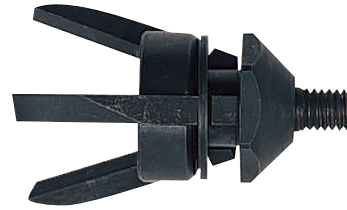
### CARBIDE DRILLS

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



### 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.



### 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.



UNIVERSAL JOINT



REPLACEMENT METAL BLADES

### CARBIDE DRILLS

**GTC-231D:** 3/4" .....

**GTC-229:** 7/8" .....

**PTB-100:** 1" .....

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

### FLEX-HONE ABRASIVE TOOLS

**FHT-125:** 1 1/4" .....

**FHT-150:** 1 1/2" .....

**FHT-175:** 1 3/4" .....

**FHT-200:** 2" .....

**FHT-225:** 2 1/4" .....

**FHT-250:** 2 1/2" .....

**FHT-275:** 2 3/4" .....

**FHT-300:** 3" .....

**FHT-500:** 5" .....

**FHT-600:** 6" .....

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

### FLEX HUB TOOLS

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

**GTC-226-2:** Replacement ring for GTC-226 .....

**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-237:** Replacement ring for GTC-231 .....

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

**GTC-234:** Replacement ring for GTC-227 .....

**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) .....

# CURVED TUBE AND SPECIALTY TOOLS

## FOR TUBES 1" I.D. AND UP

### CLEANING TOOLS FOR SMOOTH BORE TUBES

STRAIGHT TUBE  
WHEEL BRUSH  
ASSEMBLY



CURVED TUBE  
WHEEL BRUSH  
ASSEMBLY



### 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 consist 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 consist 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 (\$6.60) required to connect to GTC-720, GTC-721, GTC-721G and GTC-821 Flexible Shafts.*

#### STRAIGHT TUBE WHEEL BRUSH ASSEMBLIES

| Straight Tube I.D. | Wheel Brush Assembly | Actual Brush O.D. | Replacement Brushes |
|--------------------|----------------------|-------------------|---------------------|
| 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             |

\*\*Call for pricing

#### CURVED TUBE WHEEL BRUSH ASSEMBLIES

| Curved Tube I.D. | Wheel Brush Assembly | Actual Brush O.D. | Replacement Brushes |
|------------------|----------------------|-------------------|---------------------|
| 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             |

\*\*Call for pricing

SINGLE CONE  
ASSEMBLY



DOUBLE CONE  
ASSEMBLY



DISC CONE  
ASSEMBLY



### 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:** They consist 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 consist 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 consist 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. ....

#### SINGLE AND DOUBLE ASSEMBLIES

| Straight Tube I.D. | Curved Tube I.D. | Single Cone Assembly | Double Cone Assembly | Replacement Cones |
|--------------------|------------------|----------------------|----------------------|-------------------|
| 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 13/16"-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**         |

\*\*Call for pricing

#### DISC CONE ASSEMBLIES

| Straight Tube I.D. | Curved Tube I.D. | Disc Cone Assembly | Replacement Cones |
|--------------------|------------------|--------------------|-------------------|
| 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 11/16"-4"      | CDC-103            | RCO-112           |

# SPECIALTY TOOLS FOR DIFFICULT APPLICATIONS

## FOR TUBES 1" I.D. AND UP



THREE STRAND FLARE BRUSH



DRILL CONE ASSEMBLY



RIGID ARM FLARE CONE TOOL



FLEXIBLE ARM FLARE CONE TOOL



FLARE BRUSH



UNIVERSAL NYLON ROD (FLARE) TOOL

### A. DRILL CONE ASSEMBLIES

They consist 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" .....

**DDC-175:** 1 3/4"-1 7/8" .....

**DDC-200:** 1" .....

### B. 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 3/4"-4" I.D...

**FCT-301:** Flare Cone Tool for tubes 4"-6 1/2" I.D...

**RCO-100:** Replacement Cone .....

**CRB-001:** Replacement Cone Retainer Bolt .....

### C. 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 .....

### D. 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. ....

### E. 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. ....



# MAKE YOUR TUBE SHEET LIKE NEW AGAIN

## Tube Sheet Refacing Kit

The Goodway Tube Sheet Refacing Kit contains all the materials you need to recondition up to 40 sq ft of tube sheet. After thoroughly cleaning the surface of the tube sheet, simply mix the two part epoxy and apply to the tube sheet with a roller or brush. Once mixed, you will have approximately 45 minutes to apply the epoxy to the tube sheet. The epoxy is a 100% solid coating and will provide superior protection to the tube sheet.



**MAKE YOUR TUBE SHEET LIKE NEW AGAIN! LASTS FOR 5 YEARS!\***  
\*LONGEVITY OF RESULTS MAY VARY

**TSRK:** Tube Sheet Refacing Kit includes 2 liters of base epoxy and 1 liter of hardener to recondition up to a 40 sq ft area, mixing bucket with stick, scraper, steel brush, cup brush (for use with a drill - not included), two mini rollers with frame, 3" bristled brush, detail brush, coverall suit, nitrile gloves and a plastic tarp all in a 5 gallon bucket.....

**9801:** Kit refill of 2 liters of base epoxy and 1 liter of hardener .....

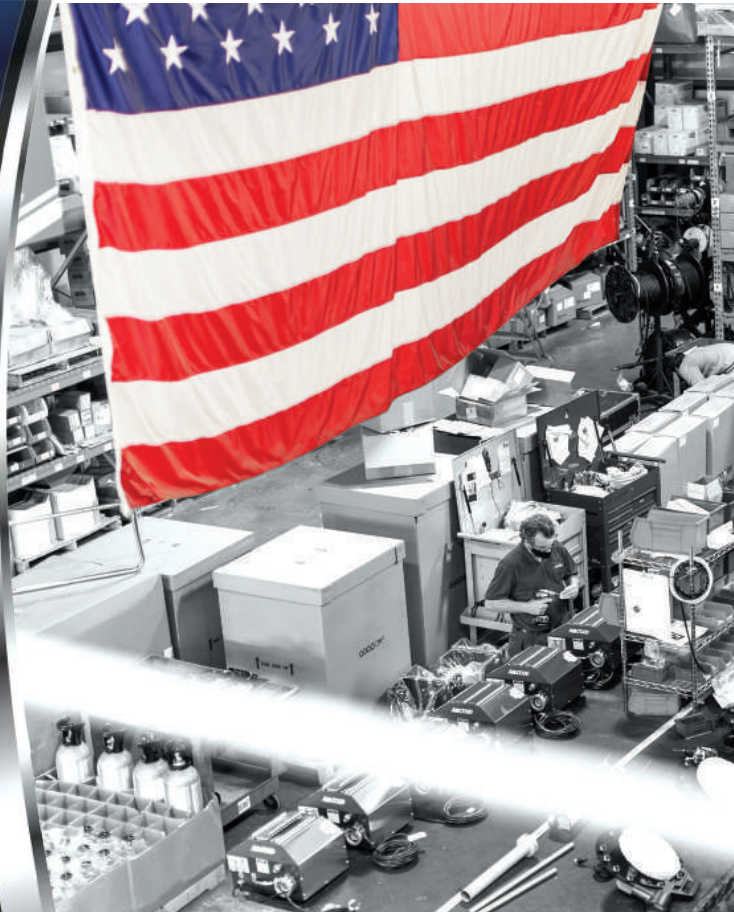


# CUTTING EDGE MANUFACTURING

Manufacturing is about creating and the satisfaction that a creator feels at the end of the day. The feeling they experience because of their contribution to creating something with their hands is undeniably powerful. At Goodway Technologies, we've been creating solutions that help keep the world safe for 55 years, from keeping occupants safe from Legionella by cleaning a dirty cooling tower to helping businesses operate safely with a surface sanitizer system, just to name a few.

As creators, we're continually listening to feedback and insight from our customers to bring them cutting-edge technology and innovative solutions. We're constantly looking ahead to what our end users will need next and the challenges that we can help them overcome.

Manufacturing is about more than just a product. It is about the people we create for.





## TOP TOOLS FOR TUBE LEAKS



### FOR HIGH AND LOW PRESSURE VESSELS ADJUSTABLE SILICONE TUBE PLUGS

Strategically designed to fit almost any inside tube surface without damaging tube walls, these adjustable silicone tube plugs from Goodway are a versatile option when tubes must be plugged. They are compatible with a range of materials - from brass or stainless steel nuts and bolts to vulcanized silicone rubber and high-performance plastic.

Available in single seal configurations for lower pressure applications (less than 60 PSI) or double seal configurations for higher pressure applications (up to 150 PSI), these plugs are designed for long life at high temperatures, in fresh or saltwater. Removal is also easy. Pre-set torque wrenches make proper installation fool-proof. They are manufactured in sizes to cover chiller and heat exchanger tubes 5/8", 3/4", 1", 1 1/8" or 1 1/4" O.D. with BWG ranges 18-25.

**TP-ADJ-B:** Adjustable silicone tube plug with brass nuts and bolts .....

**TP-ADJ-S:** Adjustable silicone tube plug with stainless steel nuts and bolts .....

**TP-ADJ-TW-SM:** T-Handle Torque Wrench for 5/8" to 3/4" O.D. plugs, preset to 17 in. lbs .....

**TP-ADJ-TW-LG:** T-Handle Torque Wrench for 7/8" to 1 1/4" O.D. plugs, preset to 33 in. lbs .....

**Note:** Additional style and size Tube Plugs available.

### ADJUSTABLE TUBE PLUG WITH BRASS HARDWARE FOR 3/4"-16 GA TUBES (5/8" I.D.)

**TP-075-16D-B:** Adjustable tube plug with double seal and brass hardware for 3/4" - 16 ga tubes (5/8" I.D.) .....

**TP-075-16S-B:** Adjustable tube plug with single seal and brass hardware for 3/4" - 16 ga tubes (5/8" I.D.) .....

### BRASS TUBE PLUGS

Got a leaky tube? Plug it with a one-piece tapered brass tube plug and enjoy peace of mind. Precision engineered, Goodway Brass Tube Plugs find a range of applications in condensers, boilers, coolers, heat exchangers, and more.

For best results, they should be driven into the tube with a hammer just far enough to form a seal. They are manufactured in sizes to cover chiller and heat exchanger tubes 5/8", 3/4", 7/8" or 1" O.D. with BWG ranges 15-22.

**TP-062S:** Brass Tube Plug for tubes 5/8" O.D. with BWG ranges 15-22.....

**TP-075S:** Brass Tube Plug for tubes 3/4" O.D. with BWG ranges 15-22.....

**TP-087S:** Brass Tube Plug for tubes 7/8" O.D. with BWG ranges 15-22.....

**TP-100S:** Brass Tube Plug for tubes 1" O.D. with BWG ranges 15-22 .....

**Note:** Additional style and size Tube Plugs available.

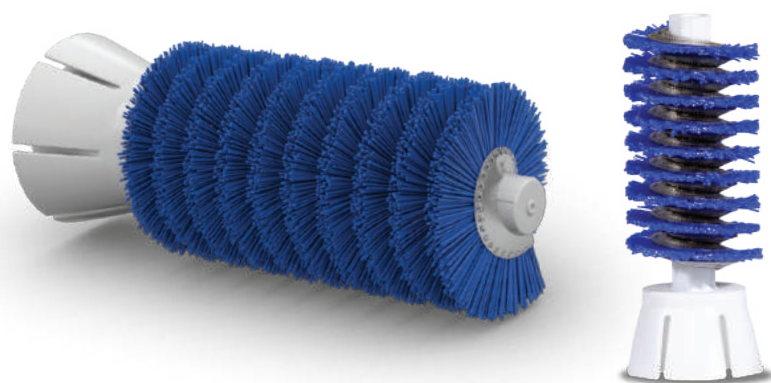
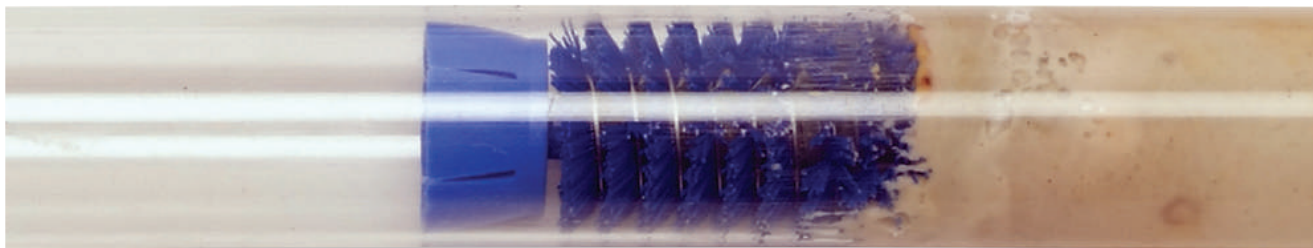
|           | TP-062S       | TP-075S       | TP-087S       | TP-100S       |
|-----------|---------------|---------------|---------------|---------------|
| O.D.      | 5/8"          | 3/4"          | 7/8"          | 1"            |
| BWG Range | 15-22         | 15-22         | 15-22         | 15-22         |
| I.D.      | 0.481"-0.569" | 0.606"-0.694" | 0.731"-0.819" | 0.854"-0.944" |

### TUBE ID SIZES

| BWG            | 12     | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    |
|----------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Wall Thickness | 0.109  | 0.095 | 0.083 | 0.072 | 0.065 | 0.058 | 0.049 | 0.042 | 0.035 | 0.032 | 0.028 | 0.025 | 0.022 | 0.020 |
| OUTSIDE        | INSIDE |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 1/4"           | 0.032  | 0.060 | 0.084 | 0.106 | 0.120 | 0.134 | 0.152 | 0.166 | 0.180 | 0.186 | 0.194 | 0.200 | 0.206 | 0.210 |
| 3/8"           | 0.175  | 0.185 | 0.209 | 0.231 | 0.245 | 0.259 | 0.277 | 0.291 | 0.305 | 0.311 | 0.319 | 0.325 | 0.331 | 0.335 |
| 1/2"           | 0.282  | 0.310 | 0.334 | 0.356 | 0.370 | 0.384 | 0.402 | 0.416 | 0.430 | 0.436 | 0.444 | 0.450 | 0.456 | 0.460 |
| 5/8"           | 0.407  | 0.435 | 0.459 | 0.481 | 0.495 | 0.509 | 0.527 | 0.541 | 0.555 | 0.561 | 0.569 | 0.575 | 0.581 | 0.585 |
| 3/4"           | 0.532  | 0.560 | 0.584 | 0.606 | 0.620 | 0.634 | 0.652 | 0.666 | 0.680 | 0.686 | 0.694 | 0.700 | 0.706 | 0.710 |
| 7/8"           | 0.657  | 0.685 | 0.709 | 0.731 | 0.745 | 0.759 | 0.777 | 0.791 | 0.805 | 0.811 | 0.819 | 0.825 | 0.831 | 0.835 |
| 1"             | 0.782  | 0.810 | 0.834 | 0.854 | 0.870 | 0.884 | 0.902 | 0.916 | 0.930 | 0.936 | 0.944 | 0.950 | 0.956 | 0.960 |



## PISTON-BASED JET PROPELLED TUBE CLEANING



// .....

I was easily able to change my order over the phone. That is great customer service. They saved me a lot of time and hassle. Great Job! – **Tom G**

..... //

### Nylon Coiled Brush

Goodway Nylon Coiled Brushes incorporate a revolutionary piston design. They feature durable nylon bristles set in a coil, wrapped around a wear resistant polymer core.

Superior to wooden dowel cores, Goodway's piston design allows the brushes to be quickly inserted into the tubes and helps maximize the cleaning effectiveness of the bristles. They are ideal for removing soft to medium deposits from condenser and component heat exchanger tubes.

**NYLON COILED TUBE BRUSH:** Available for tubes 5/8"-1" O.D. with BWG ranges 16-22. CB15 brushes cover 1 1/8" + 1 1/4" O.D.. Additional sizes available .....

### FEATURES

- Piston design for maximum speed
- Color-coded for easy identification
- Reusable
- For smooth bore tubes
- Compatible with QS-300, BSL-50
- Works with select non-Goodway guns

|  | PART NUMBER | PISTON COLOR | TUBE O.D. | GAUGE | TUBE I.D. |
|--|-------------|--------------|-----------|-------|-----------|
|  | CB-062-18   | White        | 0.625"    | 18    | 0.527"    |
|  | CB-062-20   | Red          | 0.625"    | 20    | 0.555"    |
|  | CB-062-22   | Blue         | 0.625"    | 22    | 0.569"    |
|  | CB-075-18   | White        | 0.750"    | 18    | 0.652"    |
|  | CB-075-20   | Red          | 0.750"    | 20    | 0.680"    |
|  | CB-075-22   | Blue         | 0.750"    | 22    | 0.694"    |
|  | CB-087-18   | White        | 0.875"    | 18    | 0.777"    |
|  | CB-087-20   | Red          | 0.875"    | 20    | 0.805"    |
|  | CB-087-22   | Blue         | 0.875"    | 22    | 0.819"    |
|  | CB-100-16   | Yellow       | 1.000"    | 16    | 0.870"    |
|  | CB-100-18   | White        | 1.000"    | 18    | 0.902"    |
|  | CB-100-20   | Red          | 1.000"    | 20    | 0.930"    |
|  | CB-100-22   | Blue         | 1.000"    | 22    | 0.944"    |

# EFFICIENT BI-DIRECTIONAL COILED BRUSH

LOAD IN ANY DIRECTION... THEY DON'T CARE



## Bi-Directional Coiled Brush

Goodway Bi-Directional Coiled Brushes can be shot from either end. They are color-coded for easy identification and feature durable nylon bristles set in a coil, wrapped around a wear resistant 3" polymer core. This design allows the brushes to be quickly inserted into the tubes, without regard to direction, and helps maximize the cleaning effectiveness and the life of the bristles.

They are ideal for removing soft to medium deposits from condenser and component heat exchanger tubes.

### FEATURES

- Bi-directional for easy loading
- 3" long for larger cleaning surfaces
- Piston design for maximum speed
- Color-coded for easy identification
- Reusable
- For smooth bore tubes
- Compatible with QS-300, BSL-50
- Works with select non-Goodway guns

**COILED TUBE BRUSH:** Bi-directional 3" Coiled Tube Brushes are available for tubes 3/4"-1 1/2" O.D. with BWG ranges 16-22. Additional sizes available .....

| PART #     | CAP COLOR | TUBE O.D. | GAUGE | TUBE I.D. |
|------------|-----------|-----------|-------|-----------|
| CB3-087-18 | White     | 0.875"    | 18    | 0.777"    |
| CB3-087-20 | Red       | 0.875"    | 20    | 0.805"    |
| CB3-087-22 | Blue      | 0.875"    | 22    | 0.819"    |
| CB3-100-16 | Yellow    | 1.000"    | 16    | 0.870"    |
| CB3-100-18 | White     | 1.000"    | 18    | 0.902"    |
| CB3-100-20 | Red       | 1.000"    | 20    | 0.930"    |
| CB3-100-22 | Blue      | 1.000"    | 22    | 0.944"    |
| CB3-112-16 | Yellow    | 1.125"    | 16    | 0.995"    |
| CB3-112-18 | White     | 1.125"    | 18    | 1.027"    |
| CB3-112-20 | Red       | 1.125"    | 20    | 1.055"    |
| CB3-112-22 | Blue      | 1.125"    | 22    | 1.069"    |
| CB3-125-16 | Yellow    | 1.250"    | 16    | 1.120"    |
| CB3-125-18 | White     | 1.250"    | 18    | 1.152"    |
| CB3-125-20 | Red       | 1.250"    | 20    | 1.180"    |
| CB3-125-22 | Blue      | 1.250"    | 22    | 1.194"    |
| CB3-137-16 | Yellow    | 1.375"    | 16    | 1.245"    |
| CB3-137-18 | White     | 1.375"    | 18    | 1.277"    |
| CB3-137-20 | Red       | 1.375"    | 20    | 1.305"    |
| CB3-137-22 | Blue      | 1.375"    | 22    | 1.319"    |
| CB3-150-16 | Yellow    | 1.500"    | 16    | 1.370"    |
| CB3-150-18 | White     | 1.500"    | 18    | 1.402"    |
| CB3-150-20 | Red       | 1.500"    | 20    | 1.430"    |
| CB3-150-22 | Blue      | 1.500"    | 22    | 1.444"    |



## THE TUBE CLEANING HYBRID



### Bi-Directional Stainless Steel Tube Brush

Goodway Bi-Directional Stainless Steel Tube Brushes provide a unique combination of aggressive brushing and wiping action. They are color-coded for easy identification, feature stainless steel bristles set in a coil, and capped at both ends by three wiping blades. They are ideal for removing medium to hard deposits from condenser and component heat exchanger tubes.

#### FEATURES

- Bi-directional for easy loading
- Hybrid design for maximum cleaning power
- Color-coded for easy identification
- Reusable
- For smooth bore tubes
- Compatible with BSL-50
- Works with select non-Goodway guns

**BI-DIRECTIONAL STAINLESS STEEL BRUSH:** Stainless Steel Tube Brushes are available for tubes 3/4" O.D up to 1 1/4" O.D. with BWG ranges 16-25. Additional sizes available .....

#### VICTOR CRESPO

Director - Power Industry Division



**FREE DEMOS ARE AVAILABLE**

IMPROVED  
BRISTLES

PATENT NOS. D554374, 8051523

| PART NUMBER | PISTON COLOR | TUBE O.D. | GAUGE | TUBE I.D. |
|-------------|--------------|-----------|-------|-----------|
| CBSE-075-18 | Black        | 0.75"     | 18    | 0.652"    |
| CBSE-075-20 | Red          | 0.75"     | 20    | 0.680"    |
| CBSE-075-22 | Blue         | 0.75"     | 22    | 0.694"    |
| CBSE-087-18 | Black        | 0.875"    | 18    | 0.777"    |
| CBSE-087-20 | Red          | 0.875"    | 20    | 0.805"    |
| CBSE-087-22 | Blue         | 0.875"    | 22    | 0.819"    |
| CBSE-100-16 | Yellow       | 1.000"    | 16    | 0.870"    |
| CBSE-100-18 | Black        | 1.000"    | 18    | 0.902"    |
| CBSE-100-20 | Red          | 1.000"    | 20    | 0.930"    |
| CBSE-100-22 | Blue         | 1.000"    | 22    | 0.944"    |
| CBSE-112-18 | Black        | 1.125"    | 18    | 1.027"    |
| CBSE-112-20 | Red          | 1.125"    | 20    | 1.055"    |
| CBSE-112-22 | Blue         | 1.125"    | 22    | 1.069"    |
| CBSE-125-18 | Black        | 1.250"    | 18    | 1.152"    |
| CBSE-125-20 | Red          | 1.250"    | 20    | 1.180"    |
| CBSE-125-22 | Blue         | 1.250"    | 22    | 1.194"    |





## SOLUTIONS FOR DEBRIS CLOGGED TUBING



PREVENTING DEBRIS FROM ENTERING TUBES



### FEATURES

- Polypropylene construction
- Large openings to keep out larger, tube clogging debris and to allow the passage of water
- Short profile for less debris buildup on the tube sheet providing for easier cleaning
- Safe, will not damage tubes

### TUBEGUARD® Macro Tube Filters

Asian clams, Zebra mussels, pipe scale, sticks, rocks, leaves, water line slag and other debris can restrict water flow and reduce heat exchanger efficiency. Goodway TubeGuard macro tube filters help maintain heat exchanger efficiency by preventing much of these materials from entering the tubes.

These durable polypropylene filters feature several large openings, designed to help prevent macro fouling by capturing only the debris that would clog the tubes, allowing the smaller debris to harmlessly pass through the tubes. They have a short profile, which means less buildup of debris on the tube sheet and easier cleanings.

### TUBEGUARD® MACRO TUBE FILTERS.....



### FLEXIBLE FIBERGLASS ROD

Each Flexible Fiberglass Rod is equipped with a brass tip and is ideal for removing foreign material stuck inside tubes. Custom lengths are available.

**QS-ROD-45:** Flexible Fiberglass Rod, 45' .....

**QS-ROD-65:** Flexible Fiberglass Rod, 65' .....

| PART NUMBER | TUBE O.D. | GAUGE | TUBE I.D. |
|-------------|-----------|-------|-----------|
| TG-087-18   | 0.875"    | 18    | 0.777"    |
| TG-087-20   | 0.875"    | 20    | 0.805"    |
| TG-100-18   | 1.000"    | 18    | 0.902"    |
| TG-100-20   | 1.000"    | 20    | 0.930"    |
| TG-112-18   | 1.125"    | 18    | 1.027"    |
| TG-112-20   | 1.125"    | 20    | 1.055"    |
| TG-112-22   | 1.125"    | 22    | 1.069"    |

# RAM-6 Service Kit • RAM6-SVC-KIT



## Product Overview

Get your RAM-6 Chiller Tube Cleaning Equipment working like new again, with the RAM-6 Service Kit. This tuneup package includes illustrated instructions, as well as all the replacement wear items you will need to get your unit operating at peak performance.

## What's Included

**RAM-6 Service Kit includes:**

805 O-ring, 6005 Seal, 825 Bearing, 826 Snap Ring, 6020 Snap Ring, 833 Lower Bearing, 6003 Shaft/Driver, 803 Screen Washer, 6006 Back-up Washer, 6012 V Belt, and HWST-1037-P Cover Screws (package of six).

## Product Features

- High quality, durable construction
- Includes all replacement wear items in one convenient kit
- For RAM-6 Tube Cleaner only

# TUBEGUARD®-XL TUBE PROTECTION, CORROSION INHIBITOR AND BIO-FILM REMOVAL TABLETS



**YOU'VE TAKEN THE TIME TO CLEAN  
YOUR EQUIPMENT, NOW PROTECT  
IT BY APPLYING TUBEGUARD-XL!**



## TubeGuard®-XL

TubeGuard-XL is a revolutionary alloy passivation flush for supplementary tube protection. This formulated tablet design is the best available technology for inhibiting corrosion of copper, stainless steel and other ferrous metals. The TubeGuard-XL tablet is safe to handle, completely biodegradable and designed with environmentally friendly compounds. This breakthrough tube protection process will forever change the ease and effectiveness of both, eliminating bio-film and preventing corrosion. No measuring, or dosing of chemicals is required. The TubeGuard-XL tablet simply dissolves in water and can be used during tube brushing or after a chemical descaling and flushing of your water operated system. TubeGuard-XL tabs not only contain corrosion inhibitors for passivation, but also a medical grade detergent for bio-film removal. The application of TubeGuard-XL is perfect for plate and frame and brazed plate heat exchangers as a protective measure to decrease the potential for micro biologically induced corrosion (MIC).



### THE EFFECTIVENESS OF PASSIVATION:

Passivation is the process of treating or coating a metal with a protective film or layer in order to reduce the chemical reactivity of its surface. A passivation film or layer will render a metal less susceptible to corrosion processes.

### Will the alloy in my system naturally passivate after a cleaning?

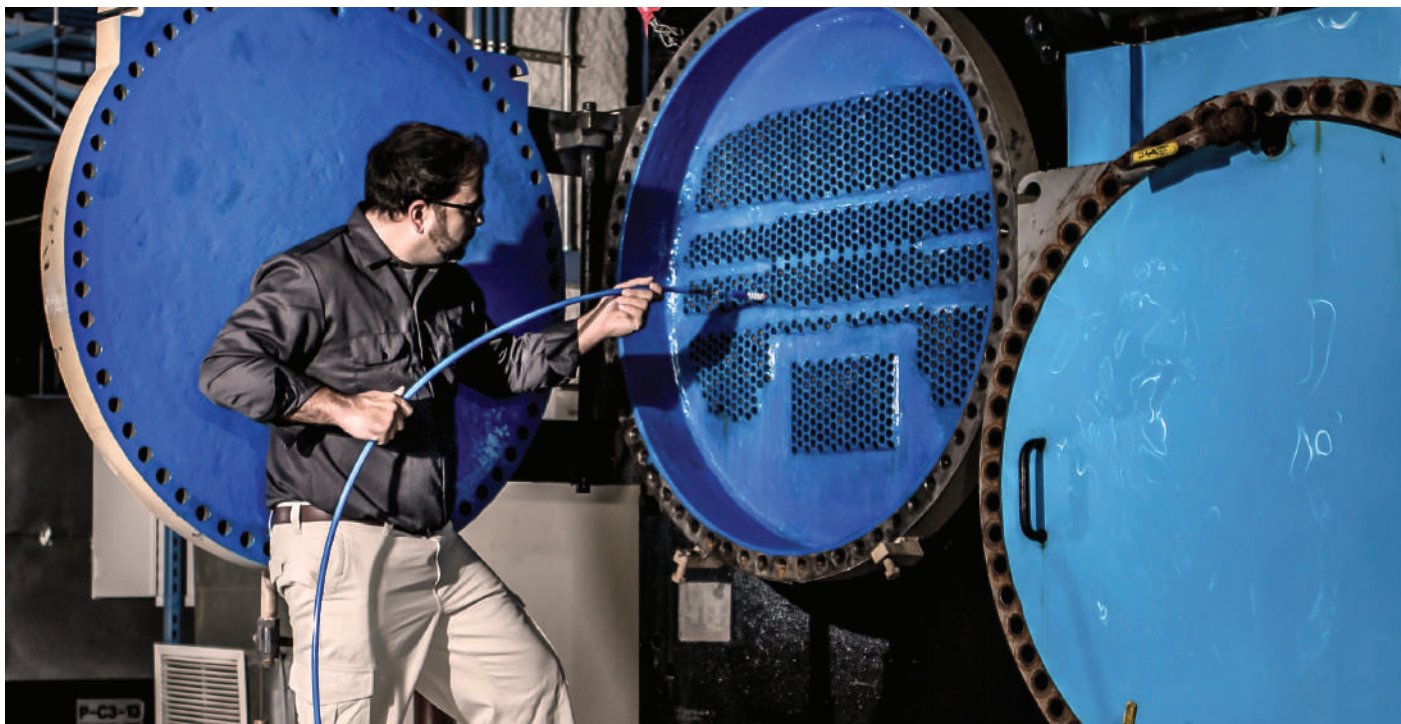
This is a question that is commonly asked. Naturally occurring passivation

can take place but it is very dependent on the levels of dissolved oxygen and CO<sub>2</sub> within the cooling water. As a result, the time frame to accomplish natural passivation will vary in all situations as will the timeline. Natural passivation is unlikely to happen in boilers after a chemical descaling. This is due to deaeration of the boiler feed-water and the water treatment chemicals the boiler is supplemented with. Passivating corrosion inhibitors are typically added after a boiler has been descaled and the spent descaler has been neutralized & discharged. By applying

the TubeGuard-XL after a cleaning, the product will rapidly develop a passivation layer offering protection of your base alloys.

### WET EQUIPMENT LAY-UPS

For long term protection of equipment, the solubilized TubeGuard-XL solution can be left in the system for seasonal wet lay-up of HVAC equipment. For wet lay-ups, utilize (2) TubeGuard-XL tablets for every 50 gallons of total volume.



#### HOW MUCH TUBEGUARD-XL DO I NEED?

- 1 Tablet for every 200-250 tubes in tube brush applications with a RAM-PRO-XL and chemical dispenser.
- 1 Tablet for every 50 gallons of liquid volume in a post descaling application.

#### HOW IS TUBEGUARD-XL APPLIED?

##### Tube brushing applications:

- Our RAM Chemical dispenser allows the tablet to simply dissolve in the on-board reservoir during the tube cleaning. As the water passes through the dispenser, it picks up the chemical residual from the TubeGuard and applies it to the tube surface for passivation.
- The dissolve time for a tablet is approximately 1 hour offering ample time to apply the passivation layer to approximately 200-250 tubes.

##### Chemical descaler circulation applications:

- After you have completed your descaling process and have flushed out all residual descaling solution, solubilized TubeGuard-XL can be circulated through your application.
- Pre-dissolve the recommended amount of TubeGuard-XL tablets (1 tablet for every 50 gallons of total volume) in a 5-gallon bucket and slowly add to the recirculation tank on your pump system. The circulation time of the TubeGuard-XL solution will be approximately 15 minutes depending on overall total volume of the system that was cleaned.
- TubeGuard-XL tablets take 1 hour to dissolve, so allow ample tablet dissolve time so the solution is ready when needed.
- For helpful procedural steps, please contact your Goodway sales person.

Please note: TubeGuard-XL tabs should never be mixed with or added during a chemical descaling operation. The application requires the equipment should first be flushed with clean water and then the TubeGuard-XL can be added to passivate the system.



## Speed-Feed Gears for RAM-5 Shafts • SFG-702



### Product Overview

Genuine Replacement Speed-Feed Gears for shaft feeding mechanism on RAM-5 Tube Cleaner. Constructed of high quality components to provide durable, long lasting service. Match shaft model number for proper sizing.

### Product Features

- High quality, durable construction
- Machines from durable steel components
- For use with RAM-5 tube cleaner only

## PSM Carrying Case • 3012-500



### Product Overview

Take your tube cleaning on the road! The PSM Carrying Case is specifically designed for PSM Air Powered Tube Cleaner and includes room for up to eight 4' (1.2m) long hollow drills. This case provides portability and protection in one professional design and is perfect for mobile tube cleaning or storing the product for the off-season.

Note: PSM 500 tube cleaner and hollow drills not included.

### Product Features

- High quality, durable construction
- Designed for portability and protection
- For use with PSM-500 Air Powered Tube Cleaning system only

## Two-Direction Foot Switch, for RAM-4 • 834R



### Product Overview

Genuine replacement Two-Direction Foot Switch for use with RAM-4 cleans internally enhanced tubes. This foot switch allows you to manually control the shaft forward and reverse functionality and lets you clean stubborn tubes easier.

### Product Features

- High quality, durable construction.
- Two-direction foot switch
- For use with RAM-4 only

## Two-Direction Foot Switch, for RAM-5 • 834R-SF



### Product Overview

Genuine replacement Two-Direction Foot Switch for use with RAM-5, without the Speed Feed gun to clean internally enhanced tubes. This foot switch allows you to manually control the shaft forward and reverse functionality and lets you clean stubborn tubes easier.

### Product Features

- High quality, durable construction
- Two-direction foot switch
- For use with RAM-5 in manual mode (no Speed Feed gun) only

## Chiller Bib Frame • 9402



### Product Overview

High quality Chiller Bib Replacement Frame is for use with the Chiller Bib Kit. Bag sold separately. The Goodway "Chiller Bib" Kit captures dirty water and debris during tube cleaning, saving time and money on post-job cleanup.

### Product Features

- High quality, durable construction
- Creates a 24" wide x 12" frame

# Air Supply Extension Hose • ASH-B50-E



## Product Overview

Industrial strength Air Supply Hoses are a must in any industrial environment. This extension hose works with all ASH-B50 series hoses. Made from 1/2" (13mm) I.D. abrasion resistant black rubber, 50' (15.2m) Air Supply Hoses from Goodway provide high CFM (m<sup>3</sup>/min) airflow to pneumatic machinery for maximum power. They can be used for a variety of industrial applications.

## Product Features

- High quality, durable construction
- Heavy-duty, abrasion resistant black rubber
- High CFM (m<sup>3</sup>/min) airflow
- 1/2" (13mm) I.D. x 50' (15.2m)

# Air Supply Hose for PSM-500 • ASH-B50-P



## Product Overview

Air Supply Hoses were designed specifically for the PSM-500 Air Powered Tube Cleaner. Made from 1/2" (13mm) I.D. abrasion resistant black rubber, 50' (15.2m) Goodway Air Supply hoses provide high CFM (m<sup>3</sup>/min) airflow to pneumatic machinery for maximum power. They can also be used for a variety of industrial applications.

## Product Features

- High quality, durable construction
- Heavy-duty, abrasion resistant black rubber
- Designed for PSM-500
- High CFM (m<sup>3</sup>/min) airflow
- 1/2" (13mm) I.D. x 50' (15.2m)

## BSL-50 Offset Nozzle • BSL-OFFNOZ-062



### Product Overview

45° Offset Nozzle Tip for the BSL-50 Condenser Tube Cleaning Gun. Match tube O.D. for proper sizing.

### Product Features

- For use with the BSL-50 Big Shot Condenser Tube Cleaning Gun

## BSL-50 Replacement Nozzle Tip • BSL-TIP-062



### Product Overview

Genuine, high quality Replacement Nozzle tip for the BSL-50 Condenser Tube Cleaning Gun. Field replaceable and easy-to-install, to get things back up and running quickly.

### Product Features

- High quality, durable construction
- For use with BSL-50 Condenser Tube Cleaning Gun only

## Bi-directional 1.5" Coil Brush • CB15-112-18



### Product Overview

Bi-directional Coil Brushes are designed for cleaning light to medium deposits. The bi-directional design allows the ability to load it into the tube, regardless of orientation.

### Product Features

- High quality, durable construction
- For cleaning medium to heavy deposits
- Use with Goodway condenser tube cleaning systems
- For tubes between 1.125" - 1.25" O.D. with BWG ranges of 16-25

# Tube Cleaning Tool, U-Tube Tool, Cup Brush in Brass/Stainless Steel

• CBT-075B-Q



## Product Overview

Cleaning U-tubes can be daunting, but Goodway U-tube Tool Brushes make it easy. These brushes are designed to snake partially through each side of a U-bend, to thoroughly remove scale and other deposits from tubes 1/2"-3/4" (12.7-19.1mm) I.D. Brushes are permanently mounted on 18" (460mm) sections of flexible shafts. Available in brass, or stainless steel brush to match your application.

## Product Features

- High quality, durable construction
- Available in brass or stainless brushes to match your applications
- Brush mounted on 18" (460mm) flexible shaft
- For tubes 1/2"-3/4" (12.7-19.1mm) I.D.

# Tube Cleaning Brush, Large, Dual Diameter Spin-Grit • ESGB-Q-125



## Product Overview

Large 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 bristles clean the lands of the enhancement. For tubes 1"-1-1/4" (25.4-32mm) I.D.

**Note:** ESGB Brushes require a #TCB-C Coupling (\$8.00) to connect to GTC-720, GTC-721, GTC-721G and GTC-821 Flexible Shafts. (One coupling is supplied with each brush order.)

# Flat Surface Paw Scraper Boiler Cleaning Tool with Quick Connect

• GTC-168



## Product Overview

Goodway's Flat Surface Paw Scraper Boiler Cleaning Tool is for cleaning and scraping scale and soot from boiler components. Made from high quality materials and used in conjunction with the SAM-3, RAM-4X and RAM-4X2A Firetube Boiler Cleaning systems with vacuum.

## Product Features

- High quality, durable construction
- Used to scrape and vacuum soot and scale
- Use with SAM-3, RAM-4X and RAM-4X2A firetube boiler cleaning systems with vacuum.

## **Coupling for use with WBC-100, WBC-125 and WBC-150 wheel brush assemblies**

- GTC-706



### **Product Overview**

High quality Goodway replacement part. Required for connecting WBC-100, WBC-125 and WBC-150 wheel brush assemblies to GTC-720, GTC-721, GTC-721G and GTC-821 Flexible Shaft.

## Tube Cleaning Hollow Gun Drill 3/16" x 4' • GTC-960-4



### Product Overview

The Tube Cleaning Hollow Drill is 3/16" (4.8mm) diameter x 4' (1.2m) long. It is used to drill into mineral scale and other deposits in severely, or completely clogged tubes - allowing a lead hole for other tools to finish the cleaning job. Integrated water flows through hollow shafts and flushes deposits as they are generated, for a better cleaning performance. For use with PSM-500 Tube Cleaner Drill.

### Product Features

- High quality, durable construction
- Hollow shaft aids in flushing deposits
- 3/16" (4.8mm) diameter x 4' (1.2m)

# Tube Cleaning Hollow Gun Drill 1/4" x 4' • GTC-961-4



## Product Overview

This straight hollow drill is used with a PSM-500 tube cleaning machine to drill into severely, or completely clogged tubes. Its high density cutting blade and integrated water flush helps cut through scale, other mineral deposits and safely flushes them out. Drill dimensions are 1/4" (6.4mm) x 4' (1.2m) Drill diameter should be equal to tube I.D.

## Product Features

- High quality, durable construction
- Ultra sharp blade cuts through lime scale and other mineral deposits
- Used to create an opening that can then allow other tools to finish the tube cleaning job
- Drill dimensions 1/4" (6.4mm) x 4' (1.2m)

# QS-300 Condenser Tube Cleaning Gun Replacement Nozzle

• QA-1051



## Product Overview

Genuine, high quality Replacement Nozzle for Quick-Shot QS-300 Quick Shot condenser Tube Cleaning Gun. Field replaceable and easy-to-install, to get things back up and running quickly.

## Product Features

- High quality, durable construction
- For use with QS-300 only

# QS-300 Condenser Tube Cleaning Gun Replacement Nozzle, 18"

• QA-1051-18



## Product Overview

Genuine, high quality 18" Replacement Nozzle is for use with the Quick Shot QS-300 Condenser Tube Cleaning Gun. Field replaceable and easy-to-install, to get things back up and running quickly.

## Product Features

- High quality, durable construction
- 18" length
- For use with QS-300 only

# Replacement Shield, BSL-50 Tube Cleaning Gun • QA-1383



## Product Overview

The Replacement Shield from Goodway was made for use with the BSL-50 Tube Cleaning Gun. Field replaceable.

## Product Features

- High quality, durable construction
- For BSL-50 Tube Cleaning Gun only

## QS-300 Mesh Tarp • QSP-1212



### Product Overview

Attach this high quality mesh tarp to the back of your condenser, or other heat exchanger, to harness excess water during the tube cleaning job and keep your job site clean. Mesh tarp also does a great job catching the projectiles, as they exit the tube under high pressure conditions. Square, high quality tarp, 12' x 12'.

### Product Features

- High quality, durable construction
- Helps keep cleaning sites clean and organized
- Square, high quality tarp, 12' x 12'

# Tube Cleaning Solution • R6-CLEANER-1



## Product Overview

Goodway R6-Cleaner is specifically formulated for use with the RAM-6 Rotary Tube Cleaner. It is low foaming and has a neutral pH for non-corrosive cleaning and safe handling. The solution is biodegradable and phosphate free, allowing for easy waste disposal. It is free rinsing and will not leave interfering residues. When used in conjunction with the RAM-6, this powerful solution will provide a more thorough cleaning of ferrous and nonferrous tubes.

## Product Features

- For aiding in cleaning tubes
- Low foaming detergent to aid in tube cleaning
- Biodegradable and phosphate free

## Brass Boiler Cleaning Brush • S4-BRUSH-200



### Product Overview

High quality brass boiler cleaning brush for use with the SAM-JR boiler tube cleaning systems. Available in 2" (50.8mm) OD and 2.5" OD (63.5mm) sizes. Recommended for removing soft and light scale deposits in straight tubes.

### Product Features

- High quality, durable construction
- Brass brushes
- Recommended for removing soft and light scale deposits in straight tubes.
- Available in 2" (50.8mm) OD and 2.5" OD (63.5mm) sizes.

# Bayonet Nozzle for SAM-JR • S4-NOZ-200



## Product Overview

Bayonet nozzles are used in conjunction with the SAM-JR system to properly size the SAM-JR to the ID of tubes and aid in the material pickup. These bayonet nozzles attach to the base of the SAM-JR and help guide the tape and brush properly into the tube, while also helping create a proper seal to reduce soot and scale dust escaping during the vacuum process. Available for tubes O.D. 2" (50.8mm) and 2.5" (63.5mm) and come in 18" (45.7cm) lengths. Match tube O.D. for proper fit.

## Product Features

- High quality, durable construction
- Used with SAM-JR to aid in proper sizing and alignment
- Available for tubes O.D. 2" (50.8mm) and 2.5" (63.5mm)
- Match tube O.D for proper fit.

## Super Scrubbers for Smooth Bore Tubes • SSM-SSP-POLY



### Product Overview

Super Scrubbers SSM's are one of the most advanced tube cleaning projectiles available. They come equipped with high tensile carbon steel blades, or wear-resistant polymer blades and resilient nitrile bushings. Each projectile features a patented force adjustment, preset by the factory, to match both, the type of deposit and the tube material. For tubes 5/8" to 1-1/4" O.D. with BWG ranges of 16 to 25.

Choose polymer blades for medium deposits and carbon steel blades for heavy deposits.

### Product Features

- High quality, durable construction
- For cleaning medium to heavy deposits
- Use with Goodway condenser tube cleaning systems
- For tubes 5/8" to 1-1/4" O.D. with BWG ranges of 16 to 25.

## Mesh Tarp Holder • TH-3/4-16-18



### Product Overview

High-quality mesh tarp holders used to keep tarps and other materials taught and in place. Comes in a variety of sizes including 3/4", 7/8", or 1". Choose gage size to match. Custom sizes available.

### Product Features

- High quality construction
- Available in 3/4", 7/8", or 1"
- Custom sizes available
- Match gage size (16-18 or 19-22)

# HEPCO Tube Plugs Silicone Adjustable • TP-ADJ-062S-S



## Product Overview

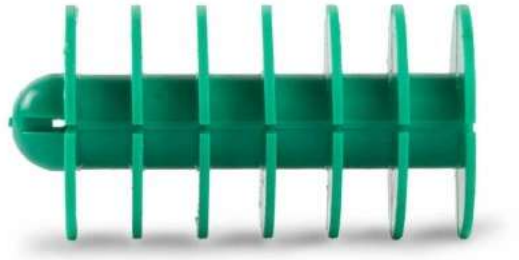
HEPCO Adjustable Silicone Tube Plugs are built with the highest quality materials to conform to almost any interior tube surface, including coated tubes. They provide a versatile option when it becomes necessary to plug tubes, and they are designed not to damage walls.

Tube plugs are offered in brass or stainless steel to meet your needs. Specialized silicone rubber and high-performance plastic polymers make the material's compatibility a non-issue. Choose your material, specialized seal configurations, and Tube O.D. for proper matching. Choose single seal configurations for lower-pressure applications (less than 60 PSI) or double seal configurations for higher-pressure applications (up to 150 PSI). These plugs are designed for long life in fresh or saltwater temperatures. Installation and removal are easy. Pre-set torque wrenches make proper installation foolproof. Available in any volume and as a quote only.

## Product Features

- Conform to almost any inside tube surface - versatile
- Brass, or stainless steel nuts and bolts, vulcanized silicone rubber and high-performance plastic - compatible
- Available in single or double seal configurations - peace of mind

# Condenser Tube Scrubber, Soft/Hard Scrubbers • TS-560-S



## Product Overview

Condenser Tube Scrubbers are available in either soft, medium, or hard material, to cover the complete range of tube cleaning conditions, and tube sizes. Fits tube sizes 5/8" - 1" I.D.

In most cases, hard tube scrubbers are recommended, however, your tube conditions may vary and more than one type may be needed. Once we receive a quote request we can discuss the specifically recommended scrubber.

- **Soft Version:** Recommended for light to medium deposits.
- **Medium Version:** For a variety of deposits. Available in .886"-.950" tube I.D. only.
- **Hard Version:** Recommended for heavy tube deposits.

## Product Features

- High quality, durable construction
- Available in hard, medium and soft configurations
- Use with our condenser tube cleaning systems.
- For tube sizes 5/8" - 1" I.D.
- Match tube ID for proper sizing

# Tube Cleaning Tool, U-Tube Tool, Wheel Brush in Brass/Stainless Steel

• WBT-075B-Q



## Product Overview

High quality brass, or stainless steel, U-tube wheel brushes are permanently mounted on 18" (460mm) sections of flexible shafts. They are designed to snake partially through each side of a U-bend on a curved tube to thoroughly clean from both sides. Available in brass, or stainless steel brushes, to better match your application. 3/4"-1" (19.1-25.4mm) I.D.

## Product Features

- High quality, durable construction
- Designed to clean around a corner of a U-tube
- Brass or stainless steel brushes available

**По вопросам продаж и поддержки обращайтесь:**

|                             |                                 |                                |                          |
|-----------------------------|---------------------------------|--------------------------------|--------------------------|
| Алматы (7273)495-231        | Калининград (4012)72-03-81      | Омск (3812)21-46-40            | Сыктывкар (8212)25-95-17 |
| Ангарск (3955)60-70-56      | Калуга (4842)92-23-67           | Орел (4862)44-53-42            | Тамбов (4752)50-40-97    |
| Архангельск (8182)63-90-72  | Кемерово (3842)65-04-62         | Оренбург (3532)37-68-04        | Тверь (4822)63-31-35     |
| Астрахань (8512)99-46-04    | Киров (8332)68-02-04            | Пенза (8412)22-31-16           | Тольятти (8482)63-91-07  |
| Барнаул (3852)73-04-60      | Коломна (4966)23-41-49          | Петрозаводск (8142)55-98-37    | Томск (3822)98-41-53     |
| Белгород (4722)40-23-64     | Кострома (4942)77-07-48         | Псков (8112)59-10-37           | Тула (4872)33-79-87      |
| Благовещенск (4162)22-76-07 | Краснодар (861)203-40-90        | Пермь (342)205-81-47           | Тюмень (3452)66-21-18    |
| Брянск (4832)59-03-52       | Красноярск (391)204-63-61       | Ростов-на-Дону (863)308-18-15  | Ульяновск (8422)24-23-59 |
| Владивосток (423)249-28-31  | Курск (4712)77-13-04            | Рязань (4912)46-61-64          | Улан-Удэ (3012)59-97-51  |
| Владикавказ (8672)28-90-48  | Курган (3522)50-90-47           | Самара (846)206-03-16          | Уфа (347)229-48-12       |
| Владимир (4922)49-43-18     | Липецк (4742)52-20-81           | Саранск (8342)22-96-24         | Хабаровск (4212)92-98-04 |
| Волгоград (844)278-03-48    | Магнитогорск (3519)55-03-13     | Санкт-Петербург (812)309-46-40 | Чебоксары (8352)28-53-07 |
| Вологда (8172)26-41-59      | Москва (495)268-04-70           | Саратов (845)249-38-78         | Челябинск (351)202-03-61 |
| Воронеж (473)204-51-73      | Мурманск (8152)59-64-93         | Севастополь (8692)22-31-93     | Череповец (8202)49-02-64 |
| Екатеринбург (343)384-55-89 | Набережные Челны (8552)20-53-41 | Симферополь (3652)67-13-56     | Чита (3022)38-34-83      |
| Иваново (4932)77-34-06      | Нижний Новгород (831)429-08-12  | Смоленск (4812)29-41-54        | Якутск (4112)23-90-97    |
| Ижевск (3412)26-03-58       | Новокузнецк (3843)20-46-81      | Сочи (862)225-72-31            | Ярославль (4852)69-52-93 |
| Иркутск (395)279-98-46      | Ноябрьск (3496)41-32-12         | Ставрополь (8652)20-65-13      |                          |
| Казань (843)206-01-48       | Новосибирск (383)227-86-73      | Сургут (3462)77-98-35          |                          |
| Россия +7(495)268-04-70     | Киргизия +996(312)-96-26-47     | Казахстан +7(7172)727-132      |                          |