

FLEXIBLE SHAFTS

for RAM-5 tube cleaning system

Goodway R5 blue flexible shafts are used to connect a cleaning brush or -tool to the RAM-5 tube cleaning system. These shafts contain some specific modifications which allows them to be used only with the speed-feed system of the RAM-5. Available in various lengths and diameters with different brush connections.

R5-type flexible shafts are only used with the RAM-5 tube cleaning system.



Tube cleaning applications



Tube heat exchangers



Water-cooled chillers

Use flexible shafts with brushes and tools to remove various deposits in tubes of shell and tube heat exchangers, water-cooled chillers, heat pumps and more.



This operator is cleaning a water-cooled chiller. The (blue) flexible shaft is used to rotate the brush inside the tube to remove deposits. At the same time, low pressure water flows through the shaft to flush out loosened deposits, cool the brush, and shaft core.



The other side of the flexible shaft is connected to the Goodway RAM-5 tube cleaning system. The tube cleaner powers the flexible shaft which allows it to rotate, furthermore, the machine feeds water through the shaft so it comes out on the brush side.

More about flexible shafts

Goodway flexible shafts are available in various lengths:

- 7,6 meters (25')
- 10,7 meters (35')
- 13,7 meters (45')
- 15,2 meters (50')

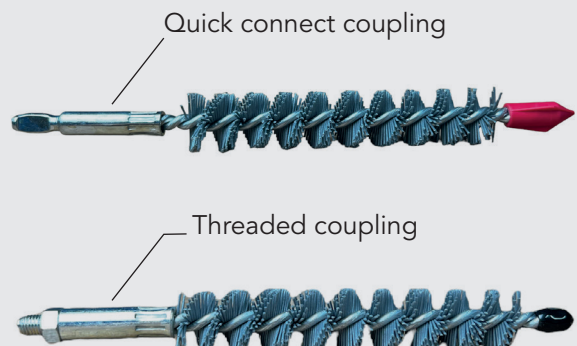
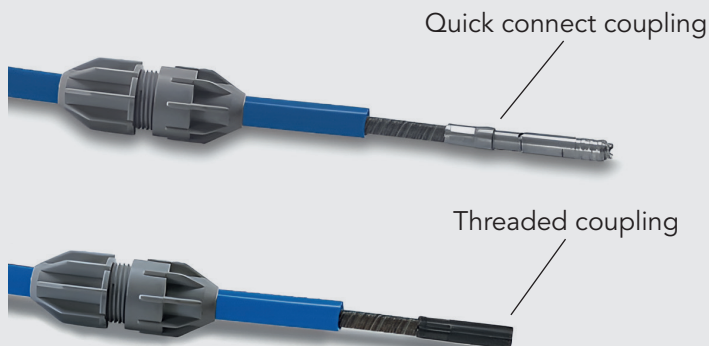


FLEXIBLE SHAFT DIMENSIONS

Shaft no.	Casing O.D.	Tool End Thread
GTC-702	9,5 mm	1/4-28 female or Quick Connect
GTC-703	12,7 mm	1/4-28 female or Quick Connect

- 1 R5-type flexible shafts only available in GTC-702/703. Available with standard threading or quick connect.
- 2 Flexible shafts for the RAM-5 tube cleaner have "R5" in the part number. (Example: GTC-703Q-45-R5)
- 3 Speed-feed system removes ca. 5 meters of the shaft length, keep in mind when selecting the proper length for the application

Example: The "GTC-703Q-45-R5" shaft has an outer diameter of 12,7 millimeters and a length of 13,7 meters (45'). It has a quick connect tool coupling due to the "Q" in the part number. The speed-feed system removes ca. 5 meters of the shaft length, which leaves 8,7 meters of cleaning length available.



Quick connect versus standard threading

Goodway Benelux offers brushes and flexible shafts with standard threading or with quick connect brush fittings. Quick connect allows for quick changeover of brushes as well as bi-directional rotation, which increases the cleaning effect. All Goodway chiller tube cleaning systems are supplied with a dual foot switch, therefore we recommend using quick connect accessories.

THREADED COUPLING



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

QUICK CONNECT COUPLING

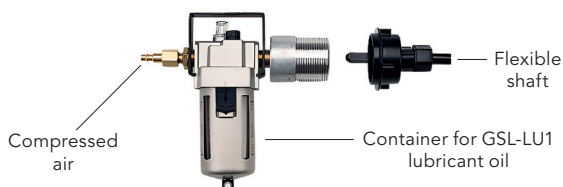


Note: to order quick connect, there will be a "Q" in the part number.

Maintenance of flexible shafts

After a wet tube cleaning of (for example) a chiller, some left over water will always remain inside the blue casing. If this water is not removed, it will cause corrosion and oxidation inside the shaft. This ultimately leads to shafts which cannot be used for the next job and/or have a significantly reduced total lifetime. It is therefore important to properly maintain the shafts after cleaning.

Contact Goodway Benelux for the shaft maintenance kit.



RAM-5 speed-feed system

Use The RAM-5 system features speed-feed technology. This system allows the shaft to be semiautomatically pushed and pulled through the heat exchanger tubes, significantly removing the need for manual labor. The R5 flexible shafts are modified to be able to work with this system, unlike any other regular tube cleaning shaft. The speed-feed system uses about 5 meters of the shaft length which cannot be used for cleaning purposes. Therefore, always make sure that the shaft is long enough for the application.

Goodway flexible shafts

Check out all the Goodway flexible shafts here →

