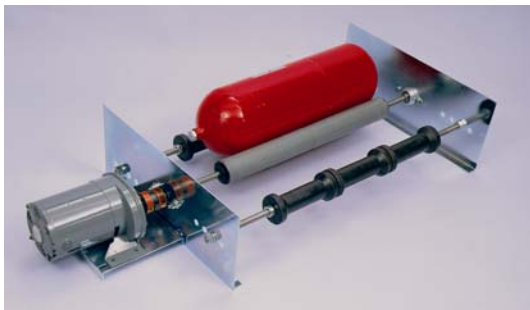


## #42000 - TANK TUMBLER

This machine consists of two heavy gauge, chrome-plated steel end plates that support three parallel rubber rollers, the center one of which is rotated by a gear motor. This setup allows two dive cylinders to be simultaneously tumbled at about 60 rpm. The semi-soft rollers will not deface or mark tanks, but still have excellent gripping properties. The spacing between each roller axis is adjustable so tanks of various diameters can be accommodated. The machine is easily assembled and can be anchored to a bench, floor, or fabricated frame. An exploded parts diagram is included, but electrical connections are not. See #42130 for information on tumbler usage.



### ASSEMBLY INSTRUCTIONS

After assembly, the GMC Tank Tumbler can be mounted on a piece of plywood, bench top, or fabricated metal frame of your choice.

Attach the Pillow Block Bearings (8) to the inner face of the front and rear End Plates (6) with 4 sets of bolts, washers, lock washers, and nuts. (Bolt package #13).

Check the two Side Shaft Roller assemblies, Each shaft (10) should have three Spindle Rollers (9 & 11) held in place with a set of lock collars (12). Put the threaded end of each Shaft Roller through the punched holes in the front End Plate (6) and secure the ends with 2 nuts and a lock washer (7). Note the line of holes which allow the Side Shaft to be moved and spaced to accommodate tanks of various sizes.

Insert the long end of the Center Drive Roller (9) through the front Pillow Block (8) allowing enough shaft to protrude through the Front Plate(6) to accept the Shaft Coupler (16).

Slide the rear End Plate (6) into place, engaging the ends of the Side Shafts in the appropriate holes and Center Drive Roller in the rear Pillow Block (8). Secure the Side Shafts with a set of nuts and washers (7). Keep the End Plates Positioned near the tip of the threaded shafts; this will allow room to slip the shaft out to change the spacing for tanks of other sizes.

Slide the 5/8 Coupling (16) on the end of the Center Drive roller and tighten the allen set screw. For additional strength, a slight insert for the set screw can be made by drilling a detent in the drive shaft. Similarly, mount the 3/4 Coupler (4) on the Gear Motor (1) shaft.

Bolt the Gear Motor (1) to its Base Plate (2) using Bolt Package (3).

Sandwich the Rubber Spider (5) between the Motor and Shaft Couplers (4 & 16) and bolt the Motor Plate (1) to the End Plate (6) with two bolt sets (14).

Instructions for wiring are contained in the motor box. The Gear Motor can be wired with a simple extension cord and plug or with BX/conduit/switch box for a more permanent, rugged hookup. Wiring components are NOT included.

## TANK TUMBLER PARTS LIST

- #1 Gear Motor, Tank Tumbler (#42001)-----
- #2 Motor Base Plate (#42002)-----
- #3 Bolt Package, Motor Mounting (#42003)-----
- #4 Coupling (3/4") - Motor (#42005)-----
- #5 Rubber Spider (#42004)-----
- #6 End Plates (#42006)-----
- #7 Nut/Washer Package, Side Shafts (#42007)-----
- #8 Pillow Block Bearing (#42008)-----
- #9 Center Drive Roller (#42009)-----
- #10 Side Shaft (5/8") (#42010)-----
- #11 Spindle Roller (3/side) (#42011)-----
- #12 Shaft Collar (#42012)-----
- #13 Bolt Package, End Plates (#42013)-----
- #14 Bolt Package, Motor to End Plate (#42014)-----
- #15 Tumbler WITHOUT Gear Motor (#42015)-----
- #16 Coupling (5/8") - Dive Shaft (#42016)-----

**Suggestions for Proper Use:** **(A)** If you are unfamiliar with tank tumbling/cleaning methods and materials, we suggest that you obtain copies of these GMC bulletins: #42130 Tank Tumbling Tips and #42125 Converting Dive tanks for Oxygen/NTX Use. **(B)** The tumbler is designed to handle two scuba tanks. Attempting to do three tanks at once by stacking a third cylinder delta-fashion on the tumbler can over-tax the motor or gear drive. Likewise, the machine is **NOT** designed to tumble large, commercial-type cylinders. **(C)** Cylinders will always have a tendency to "walk" slightly forward/backward on the rollers due to spiral torque. You can fashion a bumper out of a small piece of wood dowel, plastic, or teflon to act as a backstop on the End Plates. **(D)** Set cylinders on the rollers gently; dropping or slamming the media-filled tanks onto the rollers can warp/bend the axle rod. **(E)**

When adjusting the side-roller axes to accommodate various size tanks, always try to have the cylinder riding as high as possible on the rollers. The deeper the tanks set into the "V" formed by the rollers, the greater the strain on the motor and drive roller. The drive system can be damaged by using excessively wide spacing for heavy cylinders.

## **Global Mfg. Corp.**

**1829 S. 68<sup>th</sup> Street \* West Allis, WI 53214 USA**

**Tech Support: 414-774-1616 (v) or 414-774-9568 (f) or techsupport@gmcscuba.com (e)**

**www.gmcscuba.com**