

# O'BRIAN

TARPING SYSTEMS  
OUTLASTING SINCE 1961

## DIABLO™

Patented & Patents pending.

*Works Smarter. Lasts Longer.™*

**LOWEST PROFILE ARMS IN THE INDUSTRY**



Upper and lower arms and pivot point is below and in front of containers and compactors

Pivot Point is below the container floor.

Patented elbow arms coupled with an enclosed gear pivot assembly produces the "Best of Both Worlds" in tarping technology, virtually eliminating all arm damage.

- ◆ **Upper and lower arms are completely below and in front of compactors & containers**, virtually eliminating the 2 major causes of tarp arm destruction.
- ◆ The rotary actuator (lower pivot point) is mounted to a single mounting bracket for fast & easy installation. The upper arm cylinders are double acting.
- ◆ Our patented elbow upper arms enable the operator to **place the roller on the rear of the container** (10 to 40 cubic yard containers and lengths from 16' to 22') or on the rails of the truck. This reduces tarp replacement, prevents debris blowing out the rear and minimizes arm & roller destruction by having the tarp roller supported.
- ◆ Greaseless pivot points utilize a self lubricating bushing. No longer do you have to deal with weekly or monthly greasing for proper pivot lubrication and maintenance.
- ◆ NO VALVING (diverter or divider combiners) required for proper arm sequencing or adjustable controls needed to control freefall.
- ◆ Ultra Lightweight (approximate install weight is 850 lbs.), designed for the weight conscious hauler.

***Fewer Components, Fewer Issues, Easier Troubleshooting!***

1-800-334-TARP

[www.OBrianTarping.com](http://www.OBrianTarping.com)



# Diablo Tarper™ Specification Sheet

## GANTRY

- ◆ Tarp cradle- ½" x 7½" x 4¾" x 96" windscreen for tarp protection.
- ◆ Cradle support legs are 2½" x 2½" x ¾" Grade A5 steel tubing. ¾" top plate with ½" grade 5 fasteners and a ½" formed bottom plate.
- ◆ Neoprene cushion pad mounted between the cradle and the gantry legs which allows for chassis flex.

## UPPER ARMS (articulating pivot elbow)

- ◆ Constructed of 1½" x 2½" x ¾" Grade A5 steel tubing with self lubricating fiber bushings at the pivot points..
- ◆ The upper pivot cylinders are double acting with a 11½" stroke, 2" bore, and utilizes a 1¼" induction hardened chrome rod and are rebuildable.
- ◆ Stabilizer Bar is offset and constructed of 1½" x 2½" x ¾" Grade A5 steel tubing for lateral support to tarper arms.
- ◆ Spring loaded roller assembly is mounted between the articulating pivot elbow arms. Roller is 4" OD and constructed using extruded aluminum with internal bolt boss for tarp attachment, 1" solid aluminum shaft, ball bearings and a torsion spring wrapped in a sound deadening sleeve.
- ◆ Articulating pivot elbow has 64" of hydraulic adjustment. The actuating cylinder is mounted externally below the arm and utilizes self lubricating fiber bushings at the pivot point.

## LOWER ARMS

- ◆ Constructed of 2" x 3" x ¾" grade A5 tubing and has self lubricating fiber bushing at the pivot points.
- ◆ Pivot Modular Assembly is a commercially available rotary actuator. Actuator is a *totally enclosed gear pivot assembly*. The gears are in a constant oil bath, capable of rotating 180 degrees, have a splined output shaft, and are fitted with a splined arm adapter for attaching arm to actuator. Actuator has *phase opposed* cylinders for even force application resulting in flawless arm operation.
- ◆ Pivot Modular Mounting Brackets are constructed of 3" x 3" x ¼" Grade A5 tube steel. The fabricated weldment includes a 7" x 7" x ½" mounting plate for actuator mounting and gussets for additional support and stability. The Priority valve has a 1.0 gallon per minute constant flow that includes an externally adjustable relief valve, all ports will be O-ring boss, and includes a gauge port for easy system pressure adjustment.

## CONTROLS & MISC.

- ◆ The control valve shall be open centered, joystick (or lever) operated, and have an externally adjustable relief valve. The actuator control spool shall be regulated to ¾ GPM for easy control of tarper while allowing for driver reaction time.
- ◆ The mesh cover is 9'-6" by 28' with side flaps sewn in with memory to make the cover 8' wide for rolling up on to roller. The cover is high quality with 9'x10' of 15oz vinyl reinforcement on the front end for wear and protection against container
- ◆ All hoses are mining grade, abrasion resistant hydraulic hose.



**Tension Wrench**  
(holds tension when changing tarp)



**Industries Best Built Roller**

*"Tarp replacement time is dramatically reduced with the O'Brian roller line."*

Run the tarp out (rearward and down). With a co-worker, hand pull the tarp the rest of the way out. Then place the pin of the tension wrench (left image) into the cut out on the roller (right image) and allow to rest against the stabilizer bar. Replace the tarp, then release the tension on the wrench and remove it. Return the tarp to the cradle (it automatically rolls up). SIMPLE!

**MADE IN WILSON, NORTH CAROLINA USA**

**FOR 3 GENERATIONS, SINCE 1961!**

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