

MAGNUM-XD EXTREME DUTY AUTOMATIC TARPING SYSTEM



*What makes the Magnum tarp system, an **Extreme Duty** tarp system?*

- ✓ 3/4" Solid Steel Upper Elbow
- ✓ 35% Additional Steel Under Pivot Point of Lower Arm With an Interlocking Plate Design
- ✓ Titan Tarp Mesh, Strongest Tarp in the Industry
- ✓ Interlocking Pivot Assembly
- ✓ All Pivot Points Self Lubricating. Eliminates Time and Money Over or Under Greasing
- ✓ Upper Arm Deflectors Preventing Arm Damage from Bowed Container Walls and Hinges



MAGNUM-XDTM
EXTREME DUTY

Patented & Patents pending-TM



- ✓ Redesigned elbow made out of solid 3/4" plate steel
- ✓ Allows upper arm to articulate without side scrub
- ✓ Increased welding surface area and more steel at pivot point makes for a stronger elbow joint
- ✓ Stronger elbow joint equals longer bushing life
- ✓ Less downtime, less lost revenue, more productivity



MAGNUM-XDTM

EXTREME DUTY

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Redesigned offset cylinder linkage has 35% more material under the main pivot, making it substantially stronger



Reengineered design has the parts interlocking together like a jigsaw, allowing for more steel to be used, better weld penetration and more consistent parts quality



New design is backwards compatible! NO need to inventory or keep up with model breaks



Main pivot assembly also received the jigsaw redesign



Side, bottom and top plates interlock together first and then are welded together



Arm stop now interlocked into side plates and welded instead of just welded in, can take substantially more abuse for longer periods of time.



Produces a higher quality, consistent, stronger design that spreads tarper loads out more efficiently



Magnum Tarper-XD™ Specification Sheet

GANTRY

- ◆ Tarp cradle $\frac{1}{8}$ " x $7\frac{1}{2}$ " x $4\frac{1}{8}$ " x 96" press broke steel windscreen for tarp protection.
- ◆ Cradle support legs 3" x 3" x $\frac{3}{16}$ " Grade A5 steel tubing. $\frac{3}{8}$ " top plate with $\frac{1}{2}$ " grade 5 fasteners and a $\frac{1}{2}$ " bottom plate with $\frac{3}{8}$ " grade 5 fasteners.
- ◆ Neoprene cushion pad mounted between the cradle and the gantry legs which allows for flex

UPPER ARMS (articulating pivot elbow)

- ◆ Constructed of 1 $\frac{1}{2}$ " x 2 $\frac{1}{4}$ " x $\frac{3}{16}$ " grade A5 steel tubing with a self lubricating bushing at the pivot point.
- ◆ The upper pivot cylinders are double acting with an 11 $\frac{1}{2}$ " stroke, 2" bore, and utilizes a 1 $\frac{1}{4}$ " induction hardened chrome rod and are rebuildable.
- ◆ Arm deflector is $\frac{1}{8}$ " x 6 $\frac{1}{4}$ " x 39 $\frac{1}{2}$ " steel
- ◆ Stabilizer Bar is offset and constructed of 1 $\frac{1}{2}$ " x 2 $\frac{1}{2}$ " x $\frac{1}{8}$ " Grade A5 steel tubing for lateral support to tarper arms.
- ◆ Spring loaded roller assembly is mounted between the articulating pivot elbow arms. Roller is constructed of 4" x $\frac{1}{8}$ " extruded aluminum tubing with an internal bolt boss, 1" solid steel shaft, sealed 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 bushings at the pivot point.

LOWER ARMS

- ◆ Constructed of 2" x 3" x $\frac{1}{4}$ " grade A5 tubing and has self lubricating bushings at the $\frac{3}{4}$ " thick, solid steel pivot point.
- ◆ The lower pivot cylinders utilize a Master/Slave hydraulic cylinder arrangement which are matched for synchronous arm operation. They are a 12" stroke, custom bores, with 1 $\frac{1}{4}$ " induction hardened chrome rod and utilize a rephasing port for arm sequencing and bleeding. They are also rebuildable.
- ◆ Pivot Modular Assembly is a interlocking fabricated weldment. Top, sides, and bottom are fabricated from $\frac{1}{4}$ " plate steel encasing a Master/Slave hydraulic cylinder arrangement that pushes and pulls the offset linkage assembly for synchronous arm operation and extreme durability.
- ◆ Pivot Modular Mounting Brackets are constructed of 2 $\frac{1}{2}$ " x 2 $\frac{1}{2}$ " x $\frac{1}{4}$ " Grade A5 tube steel. The fabricated weldment includes 4" x 6" x $\frac{1}{4}$ " gussets for additional support and stability.

CONTROLS & MISC.

- ◆ The Priority valve has a 1.8 gallons 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.
- ◆ The control valve is open centered, joystick (or lever) operated, and have an externally adjustable relief valve.
- ◆ 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 Titan mesh material with 9' x 10' of 15oz vinyl reinforcement on the front end for wear and protection against container.
- ◆ All hoses are mining spec grade, utilizing an ultra-high abrasion resistant cover.



Tarper Change Tension Wrench
(holds tension when changing tarp)



Industries Best Built Roller

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

Run the tarp out (backward 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!

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**Holtz Industries, Inc.
200 South Terrace Ct
Newark, OH 43055
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