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T-Star’s “EnergySaver” T30 & T20 series S/S Storage Reel system

T-Star’s storage reel system revolves around the principle idea of modularity, interchangeability, high strength, non-corrosive components, excellent mobility, reliable, ease of use and fit all specified pool cover sizes.

Technical Data:

Structure:

- Triangular support frames shall consist of s/s 304, ASTM-554, 1½” X 1½”, 11 gauge tubing (0.125” wall thickness), strengthened with structural tube braces/gussets welded on all four corners. The 1½” square tubing shall be bent, miter cut, and welded together.
- Base plate, ¼” thick, s/s 304, welded to the bottom of the triangular support frame shall provide strong foundation for wheel-caster assemblies and connector tubing.
- Support frame connectors and center cross brace shall consist of 1½” X 1½”, S/S 304, ASTM-554, 11 gauge tubing.

Winding Reel:

- Shall consist of 4½” OD, 11 gauge (0.125” wall thickness), s/s 304, ASTM-554 tubing concentrically supported by solid 1” OD X 5¾” long round shaft securely welded to ¼” thick tube end cap.
- Winding reels longer than 20’ long shall have center reinforcement to help support the added weight of pool cover(s) and to prevent bowing or bending.
- Tube end caps and all connector points on the winding reel shall be securely fastened with ¼” non-corrosive, stainless steel blind rivets.
- Non-corrosive, composite UHMW-PE pillow block bearings with 1” bore, “Lubra-Tuff”™ self-aligning inserts shall support the winding reel’s shafts and provide self lubricating and free turning operation.

Mobility:

- Shall be provided by six (6) solid, 60 durometer urethane wheels, assembled to s/s, heavy duty, 1,650 # load capacity casters. Stainless steel axle and self-lubricating and non-corrosive delrin bearings and bushing shall be used to assemble the wheels and casters together.

Restraining/Braking Device:

- All stainless steel, high strength, fast turning, Acme threaded nut and screw housed in s/s tubing and supported s/s bracket, installed diagonally at each end of the storage reel shall provide the necessary lift to halt reel movements. Contact pad shall be made of ¾” thick, 9” square, long wearing UHMW-PE material fastened to ¼” thick, 9” square, s/s plate with s/s hardware.

Winding Tool:

- Shall be made of s/s 304, 11 gauge (0.125") wall thickness, ASTM-554, 1" X 1" X 13" long structural tubing welded to 1" X 1" tubing.

Hardware:

- All 100% stainless steel $\frac{3}{8}$ " – 16 Mil-Spec.
- All 100% stainless steel $\frac{1}{4}$ " diameter blind rivets.

Warranty: lifetime structural manufacturer's limited warranty against defective materials and workmanship. Wearable parts, such as: bearings, wheels, brake pads, bushings, etc., carry one (1) year warranty.