

## **COXREELS**

### **Challenger Series Design Features**

The following are feature and benefits of our Challenger Series Hand Crank Hose Reels.

Coxreels Challenger Series Reels are industry designed to perform in the tough demands of today's market place. This series offers high performance in a very compact and lightweight hand crank hose reel.

- 1. HAND CRANK:** Coxreels incorporates a foldaway handle that can be secured against the frame when not in use to solve storage space problems. The 1/2 inch round solid steel hand crank is fitted with a fastener, which locks the handle to the reel and prevents any possibility of loosening the handle. A smooth, tapered, plastic hand grip rides on the crank for smooth and easy operator use.
- 2. TENSION BRAKE:** A tension brake is supplied on all models. This adjustable tension brake allows the user to apply pressure to the reel to create a drag so a hose backlash does not occur or to completely lock the reel from rotating when not in use.
- 3. PLUMBING:** Our unique "in line" plumbing construction is machined from solid steel to the specified bore size required. This eliminates any possible weld fractures and or fitting leaks.
- 4. AXLE:** The axle is Schedule 80 steel pipe for strength. The swivel is mounted on the end of the axle, making it easy for service and repair, thus reducing the cost of repair should it be necessary.
- 5. SWIVEL:** Our full flow balanced swivels are designed to rotate under minimum torque, insuring smooth hose retraction and maximum flow. The swivel is a self-contained assembly and can be replaced as a unit, unlike some of our competitors. Some competitive reels use the main shaft of the reel as the spool of the swivel. When their swivel becomes worn out and do not seal, it may be necessary to replace the main shaft of the reel and the swivel. This is substantially more expensive in material, and requires a total disassembly of the reel.  
  
Our low and medium pressure swivels are machined from solid brass to minimize corrosion. Our high pressure swivels are machined from alloy steel for higher strength and zinc plated for rust protection. Buna "N" seals are standard. Viton and EPDM seals are available as an option. Stainless steel swivels are also available as an option with various optional seals.
- 6. BEARING:** Coxreels state of the art bearings will keep on turning in the toughest of working environments. Our bearings are molded from (HDPE) High Density Polyethylene. No more worries of corrosion as associated with plated steel bearings.

**7. DISCS:** Our discs are spun out of heavy gauge steel. All Coxreels discs include the extra process of rolling the edges. Rolled edges allow ultimate safety and eliminate the chances of the operator or the installer being injured by the sharp edges of the disc ends, as found on some products. The two steel discs are welded to the center drum. This design provides a stout assembly to assure efficient service in the most demanding applications.

**8. BASE:** The base structure is formed with no welds that could lead to possible fractures. It is a single piece, heavy gauge steel with rounded corners to prevent possible accidents. The mounting base allows the required stability, and flexibility in mounting for the various mobile, truck, and stationary applications.

**9. MOUNTING:** We supply four (4) slotted hole sizes, for easy installation.

**10. HOSE RETENTION:** A steel hose “U” clamp is supplied to hold the hose assembly to the reel drum. This design serves two important areas: (1) aligns the hose to smoothly (with no humps or bumps) begin its rotation on to the reel drum, and (2) eliminates the hose from slipping when pulled all the way out, which would cause damage to the hose end fitting resulting in leakage.

**11. FASTENERS:** Coxreels uses vibration-proof, reusable, self-locking and non-threaded fasteners. This type of fastener assures the reel will not loosen up and come apart.

**12. PAINT:** Coxreels paints each component part individually with a very durable polyester powder coat finish. This finish provides for excellent Ultra Violet (UV) protection and a high quality, chip and scratch resistant finish that fights weathering. Coxreels uses state-of-the-art painting equipment.

Each individual part is treated before painting through a five-stage process. This process consists of cleaning, degreasing, iron phosphate pre-treating and a final water rinse to remove any existing impurities allowing for maximum paint adhesion.

Powder coating is the finest metal finish technology available today. An environmentally friendly process, the powder coating operation in our plant creates no air pollution

**13. PACKAGING:** Our packaging consists of a double wall corrugated box. Also included is a formed insert to position the reel and eliminate any shipping damage. This packaging has been tested in shipments to various parts of the world.

**14. RELIABILITY:** Besides improving reliability of components as described above, we have eliminated welding to our major structural parts, to improve the looks and increase the product reliability.

**15. QUALITY:** Coxreels continuously strives for total quality. We are constantly improving processes and designs to enhance the quality of our reels. We seek suppliers that follow similar stringent quality guidelines as we do.

The Coxreels team is committed to total quality. Our products are accepted worldwide and we are committed in serving global market needs.

**16. CUSTOMER SATISFACTION:** Our commitment to our customer satisfaction is of paramount importance to us.

- We intend to provide the customer full service and support necessary to insure maximum acceptance of our product.
- We work closely with our customers, distributors and marketing groups to insure that we are correctly filling the customers requirements and needs.
- We have developed a system to ship our standard products on time every time to our customers, and non-standard reels on a reasonable schedule.

**17. GLOBAL MARKETS:** Coxreels markets extend beyond the United States. Canada, Mexico, South and Central America, United Kingdom, Asia and Australian markets continually specify Coxreels for their demanding requirements.