

COXREELS

SD Series Design Features

The following are features and benefits of our Static Discharge Series Reels and EZ-Coil™ Reels

- 1. GUIDE ARM:** The Coxreels guide arm is stamped from heavy gauge steel for extra rigidity and strength. The guide arm acts as a shock absorber for the cable stop, thus eliminating the problems of bending the guide. The guide arm is easily field adjustable for floor, wall, ceiling and pit or truck mounting positions.
- 2. CABLE GUIDE:** A bronze cable guide is installed in the guide arm to eliminate friction and extend cable life. The cable guide is pressed into the arm, assuring the guide will not come loose with vibrations.
- 3. AXLE:** The axle is machined from a solid 1.00 inch diameter round cold-rolled steel for strength. Unlike some competition, our axle is solid for ultimate rigidity.
- 4. BEARING HUB:** The locking ring and drum are assembled onto a bearing hub, well balanced and supported with 1.5 inches of bearing surface on the axle, with a 1.00 inch diameter “Oil Lite” self-lubricating bronze bearing. This single bearing requires no lubrication maintenance, which is simple and trouble free. The spring assembly is attached to the outer half of the drum for easy access and the spring arbor is locked onto the axle.
- 5. DRUM:** Our drums are spun out of heavy gauge steel. Each side is supplied with a formed bead in the flange for added strength. All Coxreels drums 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 drum ends, as found on some of our competitors products. The two piece steel drum is assembled onto the bearing hub with three screws and two studs of the spring assembly. This design provides a stout assembly to assure efficient service in the most demanding applications.
- 6. BASE:** The base is made of 1/4 inch steel, single piece construction, to avoid any welding problems and to prevent the flexing effect found on most competitive reels.
- 7. MOUNTING:** The mounting plate is 1/4 inch steel. We supply one (1) drilled hole for a secure installation and one (1) slotted hole for easy installation.
- 8. SPRING MOTOR:** Coxreels spring motors are manufactured from the highest quality tempered spring steel. The steel edges are rounded to eliminate any imperfections and the start of any fractures.

Our manufacturing methods and techniques assure a quality edge, skin and a long cycle life. Our spring arbor provides even loading on the inner end of the spring. The outer end wraps around a solid steel stud giving it a secure fit.

Coxreels spring assemblies are fully enclosed and replaced as a cartridge, should service be required. This is superior to competition in safety and handling.

Our non corroding de-clutching arbor eliminates the possibility of spring damage should the reel be reverse operated, or due to spring backlash.

9. LOCKING RING: The locking ring is 1/4 inch steel plate and has eight latching positions for each rotation of the drum, allowing for complete operator control of usable cable lengths. Our bronze locking cam provides for a non-sparking, safe mechanism.

10. LOCKING CAM: Coxreels locking cam is manufactured from bronze and mounted on a hardened steel shoulder bolt. This assures a safe, stronger and longer lasting mechanism.

The Coxreels locking cam is designed so that it will not lock in the opposite direction during accidental high speed rewind. We position the locking cam 10 to 15 degrees off center so that the inertia of the locking cam has to overcome before it can lock in an unwanted position, possibly resulting in damage to the locking mechanism.

11. LOCKING CAM SPRING: To avoid any rusting and ensure a long life, a stainless steel spring is used to hold the cam in position. All Coxreels reels can be easily converted to constant tension for automatic cable retrieval.

12. CABLE STOP: Adjustable cable bumper stops are made of solid molded material, which is bolted around the cable end. This allows the desired cable length to be maintained outside the reel. The bumper will not slip when the cable is retrieved and hits the arm guide rollers.

13. FASTENERS: Coxreels uses vibration-proof, reusable, self-locking fasteners. Although this type of fastener is substantially more expensive, it assures the reel will not loosen up and come apart.

14. PAINT: Coxreels paints each component part individually with a very durable polyester powder coat finish. This electrostatic 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.

15. CABLE ASSEMBLY: These cable assemblies are manufactured with the highest quality components. The 3/32" diameter cable with 3/16" diameter orange vinyl cover is wire rope 7x7 construction and is available in stainless steel or galvanized carbon steel. These assemblies conform to federal spec. RRW-41OD and MIL-W834-D. The spring actuated grounding clamp is zinc plated carbon steel construction. The cable is provided with swaged eyes on each end to form an anchor point to bolt cable to the reel and bolt the clamp to the cable.

16. PACKAGING: Our packing consists of 200# BC fluted double wall corrugated impregnated with friction reducing Michelman coating. Handling instructions are printed on one side. There is also a 200# BC flute double panel top and bottom insert to securely position our reels and eliminate any shipping damage. This packaging has been tested in shipments to various parts of the world.

17. 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.

18. 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.

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

- We intend to provide the customer with 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 at a reasonable schedule.

20. 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.