

# Cable Reeling Drums

## Motor Driven Cable Reeling Drums



SIMBAL 'H&K' motor driven cable reeling drums are the ideal solution for cable reeling applications featuring a combination of long payout lengths, large cable sections and heavy duty requirements. Motor driven drums are available in two distinct design types.



**1 – Monospiral drums** – as the name suggests, the cable is wound on to the drum in a single spiral layer, this design allows free passage of air over the cable, improving the heat dissipation and reducing the need for cable de-rating factors. This design often means that a smaller cable size can be used when compared to a cylindrical design drum in the same application.

**2 – Cylindrical drums** – although the use of these drums may require increased cable size in some cases, the multi-spiral winding of the cable means that a much smaller drum diameter can be used than would be required for a Monospiral design. Cylindrical drums are the standard solution for shorter payout lengths where the small number of cable layers avoids the heat dissipation issue.

SIMBAL motor driven cable reeling drums are designed for use with any suitable reeling cable for transmission of power, control or data signals. The mechanical drive can be via a standard electric motor/gearbox unit driving through a magnetic or turbo coupling or by direct drive using frequency inverter or torque motors. Drums are also available with hydraulic motor drive systems.

### Possible Applications

Typical fields of application for our motor driven cable reels are ship to shore cranes, container cranes, gantry cranes, water treatment bridges and environmental engineering plants. The drums are available in a large range of sizes offering solutions for various cable sections with payout lengths in excess of 1000m and very high payout speeds.

Standard construction includes brass sliprings with copper contact brushes, rhodium or nickel plated rings and brushes are also available for data & signal transmission.

### Optional Extras

Standard options which can be fitted to SIMBAL motor driven cable drums include anti-condensation heaters, limit switches and tight / slack cable switches. A range of ancillary items including roller guides and turnover anchors is also available to complement the full range of drums.

### Technical Data

The range of motor driven cable reeling drums is vast with literally hundreds of variations available to suit each specific application, for this reason we have not included technical data in this brochure. Please contact our sales office either by phone on 01298 813883 or by email at [sales@simbal.net](mailto:sales@simbal.net) with your enquiry and we will respond as quickly as possible with a quotation and technical data sheet or drawing tailored to your application.

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### Typical Applications



*Mono spiral motorised cable drum feeding power to large gantry crane.*



*Mono spiral cable reeling drum on a large Liebherr mobile crane.*



*Mono spiral and cylindrical motor driven drums paying vertically down to hook on a special overhead crane.*



*Large diameter mono spiral cable drum with heavy duty roller guide assembly shown on a typical ship to shore crane application.*



*Large diameter double spiral motor driven cable reeling drum delivering twin power cables to a scrap handling crawler crane.*



*Twin cable spiral cable drum on large gantry crane.*



*Twin cable spiral cable drum on large gantry crane.*