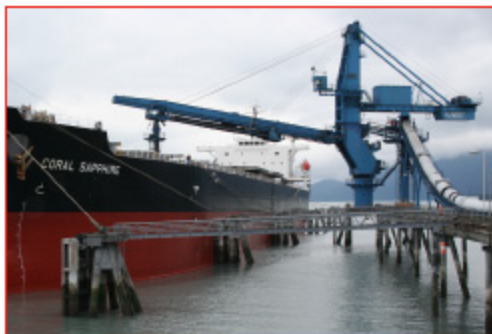


Motorized Pulleys



TC102: 03/07

BULK HANDLING



Mobile and fixed plants for extraction, processing, loading...a Motorized Pulley's environment!

Compact

Rulmeca Motorized Pulley's internally-powered conveyor belt drive has saved precious space in restricted areas such as portable crushing & screening plants for more than 50 years.



Plant operators & designers utilize Rulmeca Motorized Pulley compactness in quarries, pits, mines, terminals, C&D project sites, and numerous mineral processing plants.



Hermetically Sealed

Rulmeca's AC squirrel-cage induction motor and gearbox are hermetically sealed within the oil-filled Motorized Pulley shell. So, drive reliability is high and maintenance requirements are low.

In addition to saving space, sealing motor and gearbox within pulley shell protects them from abrasive and corrosive environments. Gearbox, motor bearings, and main support bearings are all automatically splash-lubricated. Since pulley shaft is "dead" (non-rotating,) there are no pillow blocks to lubricate. Maintenance includes changing standard gear oil every 10,000 operating hours.

Compatible

Motorized Pulleys are Variable Frequency Drive compatible. Various options enable them to drive inclined, reversing, articulating, & high-duty cycle conveyors.



Each Motorized Pulley provides specific HP at fixed belt speed within particular pulley diameter & face width. Variable frequency drives provide belt speed flexibility.



Simple Mounting

Rulmeca Motorized Pulleys simplify convey- or drive mounting in challenging locations such as tail drives, dual drives, and center nest drives.

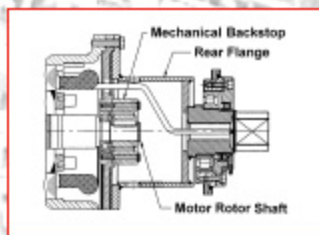
To mount Rulmeca Motorized Pulley, simply align pulley, fasten four mounting bolts to conveyor structure, and make electrical connections.

External Options

Surface finishes (incl. stain- less steel in some models,) lagging (incl. rubber and ceramic,) and sealing sys- tems (incl. standard & labyrinth seals) yield excel- lent service in abrasive & corrosive environments.

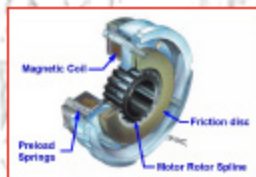


Upper left: standard 5/16" cold-bonded diamond pattern black SBR rubber lagging (with 2.4 mils paint.) Upper right: partial 3/8" lag (with ss regreasable labyrinth seals and 4.7 mils paint.) Lower: solid ceramic segments bonded directly to steel pulley face.



Internal Options

Rulmeca fits optional internal mechanical backstops and DC brakes directly to the motor rotor shaft. This gives them mechanical advantage (as high as 100:1) and protects them within a hermetically sealed environment.



Upper diagram: internal backstop keyed to motor rotor shaft. Lower left: exploded view of mechanical backstop. Lower right: spring-loaded electromagnetic DC holding brake.



Broad Product Line

Rulmeca's Motorized Pulley offering includes six diameters combining 0.5 to 180 HP motors with two or three stage gearboxes...in virtually any face width.

Whether upgrading an existing fixed conveyor system or manufacturing a new lightweight portable plant, operators and designers will find a single or dual drive Rulmeca Motorized Pulley package to meet their needs. Rulmeca builds Motorized Pulleys to order or ships from stock, depending upon specifications and scheduling requirements.

Motorized Pulley Product Range

Diameter	Power	Belt Speed	Models
8.50"	0.5 - 7.5 HP	24 - 600 FPM	220M*, 220H*
12.64"	1.0 - 10 HP	24 - 600 FPM	320L, 320M*, 320H*
15.75"	3.0 - 20 HP	38 - 768 PM	400L, 400M*, 400H*
19.72"	3.0 - 30 HP	48 - 768 FPM	500L, 500M, 500H
24.80"	7.5 - 75 HP	150 - 960 FPM	630M, 630H
31.50"	30 - 180 HP	300 - 1064 FPM	800M, 800H

* Assembled in Wilmington, NC

Other Rulmeca Products

Available in North America from Precismeca Ltd.



Troughing, return, impact, & garland idlers are available to belt widths of 120" in roller diameters of 2.5" to 12.5," conforming to CEMA, ISO, UNI-DIN, etc.



Keyless tapered locking hubs as well as standard welded pulleys are available in any diameter, shaft size and face width.

Worldwide Production Facilities

World's leading manufacturer of Motorized Pulleys & Rollers for the global bulk materials handling market...with a family of more than 900 people in 12 manufacturing companies and 3 sales companies.



RULMECA Corporation, Wilmington, NC, USA



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