



Motorized Pulley 400L, 400M & 400H, Ø 15.91 in. (404 mm)

Our 15.91" diameter Motorized Pulley range offers three different performance levels for BULK applications:

- L for Light duty
- M for Medium duty
- H for Heavy duty

It is important to note the product differences and choose the appropriate pulley based on estimated belt tension (radial load.) See page 80. The actual radial load must be less than the maximum allowable radial load shown in this catalog.

Be aware of increased belt tensions required to drive multi-ply thick heavy belts and/or larger belt widths.

If the 15.91" diameter model is not strong enough to resist estimated belt tension, then select 19.72" diameter model.

L for Light duty

400L is designed for regular and continuous operating conditions. It is advisable to rubber lag these pulleys to grip the belt and limit belt tension. A popular application is self-cleaning magnetic separators. 400L uses motor and gearbox from 320M.

M for Medium duty

400M is designed for tough and irregular operating conditions. 400M is typically used in heavy mobile crushing & screening applications as well as in crushed stone, ore, cement, steel, and fertilizer handling.

H for Heavy duty

A solid 3-stage gearbox enables the 400H to provide low speed at high torque and handle irregular loadings in harsh operating conditions.

STANDARD SPECIFICATION of Motorized Pulley

- Crowned mild steel 15.91" diameter steel shell painted yellow at a minimum thickness of 2.4 mils
- Bolted powder coated cast iron bearing housings and covers, all painted yellow at a minimum thickness of 2.4 mils
- Mild steel shafts treated w/anti-rust wax
- Shaft sealing system - degree of protection IP66/67 (EN60034-5.) See pg 37.
- Powder coated aluminum terminal box for 400L
- Cast iron terminal box for 400M & 400H painted yellow at min.thickness of 2.4 mils
- 3-phase induction motors with thermal protector
- Voltage: All common voltages available. Please specify.
- Motor winding insulation Class H
- Dynamically balanced rotor
- Two oil plugs each fitted with a magnet to filter the oil
- Oil change recommended every 50,000 operational hours for synthetic oil (or 20,000 operational hours for mineral oil.)
- Minimum RL. Refer to pages 41-42.
- Maximum RL - Please inquire
- Non standard RL's available
- To be used in horizontal positions ±5 degree only

Please note:

- **Noise-sensitive Areas:** High speed 2-pole motors can cause higher noise levels and are not recommended for noise-sensitive areas
- **Technical Precautions for Design, Installation, and Maintenance:** pages 78-98.
- **Environmental Considerations:** pg 76-77.
- **Optional Extras:** pg 39 and back cover
- **Electrical Connection Diagrams:** pages 92-98.

STAINLESS STEEL options

TS9N

- Stainless steel shell - AISI 304 range
- Stainless steel shafts - AISI 303/4 range
- Stainless steel covered bearing housings - AISI 316 range
- Regreasable bearing covers with labyrinth grooves and labyrinth seals with grease nipples in stainless steel - AISI 304 range

- Stainless steel oil plugs - AISI 304 range — one out of two with magnet
- Stainless steel exterior bolts - AISI 304 range
- Shaft sealing system — degree of protection IP66/67 (EN60034-5) See pg 37.

TS10N

- As TS9, but without regreasable labyrinth seals

SEMI-RUST-FREE options

TS 11N

- Painted mild steel shell — min. thickness of 4.7 mils
- Stainless steel shafts - AISI 303/4 range
- Stainless steel covered cast iron bearing housing - AISI 316 range
- Regreasable bearing covers with labyrinth grooves and grease nipples in stainless steel - AISI 304 range
- Stainless steel oil plugs — AISI 304 range - one out of two with magnet
- Stainless steel exterior bolts - AISI 304 range
- Shaft sealing system - degree of protection IP66/67 (EN60034-5)
- Powder coated terminal box for 400L
- Painted terminal box - min. thickness of 4.7 mils for 400M & 400H

TS12N

- As TS11N, but without regreasable seals.
- Covers - standard

Other Stainless Options:

- FDA & USDA food grade recognized oil and grease are not included in TS9N - TS12N, but available on request
- Complete Motorized Pulleys in acid resistant stainless steel - AISI 316 range - available on request.
- Special mounting brackets available

Electrical connection options:

- Salt water resistant powder coated aluminum terminal box with zinc plated exterior bolts
- Stainless steel terminal box - AISI 304 range (400L ≤ 5.5 HP only)
- Straight stainless steel connector with flying lead - AISI 304 range ≤ 5.5 HP only.

Please specify required TS-number when ordering Stainless Steel options..