



## Motorized Pulley 500L, 500M & 500H, Ø 19.72 in. (501 mm)

Our 19.72" 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 notice the product differences and choose the appropriate pulley based on estimated belt tension (radial load.) See page 78. 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 19.72" diameter model is not strong enough to resist estimated belt tension, then select 24.80" diameter model.

### L for Light duty

500L is designed for tough and irregular operating conditions. 500L is typically used in heavy mobile crushing & screening applications as well as in crushed stone, ore, cement, steel, and fertilizer handling. 500L uses motor and gearbox from 400M. Note that 500L outer dimensions do not match 500H (Former models TM500 and TM501).

### M for Medium duty

A solid 3-stage gearbox enables the 500M to provide low speed at high torque and handle irregular loadings in harsh operating conditions. 500M uses motor and gearbox from 400H. Note that 500M outer dimensions do not match 500H (Former models TM500 and TM501).

### H for Heavy duty

500H has strongest internal components in this diameter with gearbox, shaft, and bearings designed for tough, irregular, and extreme operating conditions.

### STANDARD SPECIFICATION of Motorized Pulley

- Crowned mild steel 19.72" 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
- Shaft sealing system - degree of protection IP66/67 (EN60034-5.) See page 88.
- Cast iron terminal box for 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 F
- Dynamically balanced rotor
- Two oil plugs each fitted with a magnet to filter the oil
- Black painted mounting brackets (KL60) for 500L and 500M available on request
- Yellow painted mounting brackets (AL65 & ALO65) included with 500H
- Oil change recommended every 10,000 operational hours
- Minimum RL. Refer to pages 53 & 58
- Maximum RL - Please inquire
- Non standard RL's available
- To be used in horizontal positions  $\pm 5$  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 76-86
- **Environmental Considerations:** page 72
- **Optional Extras:** page 51 and back cover
- **Electrical Connection Diagrams:** pages 94-96.

### SEMI-RUST-FREE options

#### TS11 – (500L & 500M)

- Painted mild steel shell at minimum thickness of 4.7 mils
- Stainless steel shafts – AISI 303/4 range
- Painted cast iron end housings at minimum thickness of 4.7 mils
- Stainless steel bearing covers with labyrinth grooves and grease nipples – AISI 304 range
- Zinc plated oil plugs each with magnet
- Zinc plated exterior bolts
- Shaft sealing system – degree of protection IP66/67 (EN60034-5.) See page 88.
- Painted terminal box at minimum thickness of 4.7 mils
- Nickel plated mounting brackets are available

#### TS11 – (500H)

- Painted mild steel shell at minimum thickness of 4.7 mils
- Painted cast iron end housings at minimum thickness of 4.7 mils
- Stainless steel covers with labyrinth grooves – AISI 304 range
- Nitrided shaft sleeves
- Zinc-plated oil plugs - each with magnet
- Zinc-plated exterior bolts
- Shaft sealing system – degree of protection P66/67 (EN60034-5) See pg 88.
- Painted terminal box at minimum thickness of 4.7 mils
- Nickel plated mounting brackets with labyrinth grooves

#### TS12

- As TS11, but without regreasable seals.
- Covers - standard

### Please note:

- FDA & USDA food grade recognized oil and grease are not included in TS11 & TS12, but available on request

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