



Motorized Pulley 320L, 320M & 320H, Ø 12.64 in. (321 mm)

Our 12.64" 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 12.64" diameter model is not strong enough to resist estimated belt tension, then select 15.91" diameter model.

L for Light duty

320L is designed for regular and continuous operating conditions. It is advisable to rubber lag these pulleys to grip the belt and limit belt tension. Typical applications are portable conveyors and cross belts in mobile crushing and screening equipment. 320L should not be used for low speed high torque feeder conveyors. 320L uses motor and gearbox from 220M.

M for Medium duty

The internal parts of 320M are designed for tough and irregular operating conditions (e.g. crushing & screening applications, asphalt, cement, and concrete plants.)

H for Heavy duty

A solid 3-stage gearbox, larger shafts, and stronger bearings enable the 320H to provide low speed at high torque and handle irregular loadings in harsh operating conditions.

STANDARD SPECIFICATION of Motorized Pulley

- Crowned mild steel 12.64" diameter steel shell treated with anti-rust wax
- Powder coated cast iron bearing housings
- Mild steel shafts treated with anti-rust wax
- Shaft sealing system — degree of protection IP66/67 (EN60034-5.) See page 37.
- Powder coated die cast aluminum terminal box
- 3-phase induction motors with thermal protector
- Voltage: All common voltages available. Please specify.
- Motor winding insulation Class H
- Dynamically balanced rotor
- One out of two oil plugs fitted with a magnet to filter the oil in 320L
- Two oil plugs fitted with a magnet to filter the oil in 320M & 320H
- Oil change recommended every 50,000 operational hours for synthetic oil. (or 20,000 operational hours for mineral oil)
- Minimum RL. Please refer to pages 31-32.
- 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:** page 76-77.
- **Optional Extras:** page 29 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
- Stainless steel oil plugs — AISI 304 range — one out of two with magnet
- Stainless steel exterior bolts — AISI 304 range
- Regreasable labyrinth seals with grease nipples in stainless steel — AISI 304 range
- Shaft sealing system — degree of protection IP66/67 (EN60034-5). Page 37.

TS10N

- As TS9N, but without regreasable labyrinth seals.

SEMI-RUST-FREE options

TS11N

- As TS9N, but with crowned mild steel shell treated with anti-rust wax.

TS12N

- As TS10N, but with crowned mild steel shell treated with anti-rust wax.

Other Stainless Options:

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

Electrical connection options:

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

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