

Motorized Pulley 400L, 400M & 400H, Ø 400 mm

To match your requirements in diameter 400 mm, our product range offers three different loading performances for your BULK applications:

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

You have a choice.

Therefore, it is important to notice the differences to choose the right type of pulley for the right application based on estimated belt tension (radial load) = T1+T2. The actual radial load MUST be LESS than the max. allowable radial load shown in this catalogue.

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

If you do not find the belt tension needed in this diameter, you might have to choose a larger one.

L for Light-duty

400L is meant for applications with regular and constant operating conditions. Max. allowable radial load has to be respected. A popular application is magnetic separators! (Motor/gearbox origin from 320M).

M for Medium-duty

The internal parts of 400M are designed for tough, irregular and extreme working conditions.

400M are typically used in grain storage, cement, steel, fertilities and heavy mobile crushing & screening applications.

H for Heavy-duty

Due to a solid 3-stage gearbox, 400H provides the necessary forces needed for low speeds, combined with high power, and is designed to handle irregular loadings in BRUTAL conditions.

STANDARD SPECIFICATION of Motorized Pulley

- Crowned mild steel Ø 400 mm steel shell painted yellow – min. layer of 60 µm
- Bolted powder coated cast iron bearing housings and covers, all painted yellow – min. layer of 60µm
- Mild steel shafts treated with anti-rust wax
- Shaft sealing system - degree of protection IP66/67 (EN60034-5)
- Powder coated aluminium terminal box – 400L
- Cast iron terminal box 400M & 400H painted yellow – min. layer of 60µm
- 3-phase induction motors with thermal protector
- Voltage: 3-phase single voltage. Most 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
- Oil change recommended every 20.000 operational hours
- Minimum RL. Please refer to pages 43-44
- Maximum RL – Please inquire!
- Non standard RL's available
- To be used in horizontal positions ±5 degree only!

Please note:

- Straight or elbow connector available – 400L ≤4.0 kW
- Special speeds available on request.
- Parallel shell available. Diameter equal to dimension Ø A.
- Motorized Pulleys for non-horizontal positions available on request.

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
- Re-greasable 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)

TS10N

- As TS9, but WITHOUT re-greasable labyrinth seals

SEMI-RUST-FREE options

TS11N

- Painted mild steel shell – min. layer of 120 µm
- Stainless steel shafts – AISI 303/4 range
- Stainless steel covered cast iron bearing housing – AISI 316 range
- Re-greasable bearing covers with labyrinth grooves and grease nipples in stainless steel
- Zinc plated oil plugs one out of two with magnet
- Zinc plated exterior bolts
- Shaft sealing system – degree of protection IP66/67 (EN60034-5)
- Powder coated terminal box - 400L
- Painted terminal box – min. thickness layer of 120 µm – 400M & 400H

TS12N

- As TS11N, but without re-greasable seals.
- Covers - standard

Other 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 – on request.

Electrical connection options:

- Salt water resistant powder coated aluminium terminal box with zinc plated exterior bolts
- Stainless steel terminal box – AISI 304 range (400L - ≤4.0 kW only)
- Straight stainless steel connector with flying lead – AISI 304 range - ≤4.0 kW.

When ordering, please specify the required voltage, electrical connection and eventual TS-number, options, brackets and idler pulleys.

- Environmental considerations: page 77-78
- Technical precautions: pages 81-92
- Optional extras: page 41 and back cover
- Connection Diagrams: pages 98-100.