



## Motorized Pulley 220M & 220H, Ø 216 mm

To match your requirements in diameter 216 mm, our product range offers two different loading performances for your **BULK** applications:

- **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.

### M for Medium-duty

The internal parts of 220M are designed to match irregular working conditions in applications such as mobile crushing & screening, cement & concrete plants, mobile conveyors and open stone & gravel pits. 220M provide sufficient belt tension.

### H for Heavy-duty

A reinforced 3-stage-gearbox provides 220H with the necessary strength needed for low speeds, high torque and the listed belt tension. 220H is popular in re-cycling (hand sorter conveyors), bunker discharge conveyors and where a combination of slow speed and high torque is required.

For the choice of the Motorized Pulley it is very important to know or to calculate the belt tension T1+T2 (radial load). This **MUST NOT** OVERCOME the "max. radial load" allowed as shown in the catalogue. Be careful to very high belt tensions when using thick, heavy and/or large belts.

If this type cannot provide the necessary max. radial load T1+T2, you have to choose a Motorized Pulley with a bigger diameter.

### STANDARD SPECIFICATION of Motorized Pulley

- Crowned mild steel Ø 216 mm 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)
- Compact powder coated die cast aluminium terminal box
- Larger powder coated die cast aluminium terminal box >= 5.5 kW
- 3-phase induction motors with thermal protector
- Voltage: wide range 3-phase single voltage. Most common voltages available. Please specify!
- Motor winding insulation Class F
- Dynamically balanced rotor
- One out of two oil plugs fitted with a magnet to filter the oil
- Oil change recommended every 20.000 operational hours
- Minimum RL. Please refer to pages 23-24
- 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
- Parallel shell available. Diameter equal to dimension Ø A
- Two speed motors on request
- Special speed available on request
- Motorized Pulleys for non-horizontal positions available on request
- The high speed of 2-pole motors can cause higher noise levels and are therefore not recommended in noise sensitive areas

### 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
- Re-greasable labyrinth seals with grease nipples in stainless steel – AISI 304 range
- Shaft sealing system – degree of protection IP66/67 (EN60034-5).

#### TS10N

- As TS9N, but WITHOUT re-greasable labyrinth seals.

### SEMI-RUST-FREE options

#### TS11N

- As TS9N, but with crowned mild steel Ø 216 mm steel shell treated with anti-rust wax.

#### TS12N

- As TS10N, but with crowned mild steel Ø 216 mm steel shell treated with anti-rust wax.

### Other 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 – 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 (max. 4 kW)
- Straight stainless steel connector with flying lead – AISI 304 range (max. 4 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 21 and back cover
- Connection Diagrams: pages 98-100.