



Features and Benefits of Rulmeca Motorized Pulleys

Purpose-built design

The Rulmeca Motorized Pulley has been specifically designed for belt conveyors.

Hermetically Sealed

The motor, gearbox and bearings are hermetically sealed inside a steel shell. Therefore they are unlikely to fail due to harmful environmental conditions such as water, dust, grit, chemicals, grease, oil, etc.

Space saving design

Because the drive unit and the bearings are mounted inside the Motorized Pulley shell, it requires much less room than an exposed drive. No need for costly extras like chains, v-belts, couplings, bearings, support structure and special guarding.

Safety

The Rulmeca Motorized Pulley is one of the safest drives available because the motor is completely enclosed and the external shafts are always stationary. The only moving external parts are the Motorized Pulley shell and bearing housings.

Low purchasing and installation cost

The Rulmeca Motorized Pulley is quite often less expensive than exposed drives because it has fewer parts. Therefore less conveyor design time and parts purchasing costs. It is also much quicker and easier to install - certainly less than a quarter of the time taken to fit an exposed system.

Low maintenance cost

The end user also benefits from the Rulmeca Motorized Pulley, because it requires no maintenance other than the recommended oil change every 50,000 operating hours for synthetic oil and oil seal change every 30,000 operating hours. That equates to 8 years between oil

changes based on a 24 hrs/day and 7 day/week operating schedule. Standard oil is also available requiring an oil change every 10,000 operating hours.

Efficiency

The Rulmeca Motorized Pulley usually has a much higher efficiency from electrical motor to shell (Pulley face) than exposed drives, because it has fewer frictional losses. Therefore, efficiencies of up to 97% can be achieved.

Cleanliness

Because the Rulmeca Motorized Pulley is hermetically sealed it cannot contaminate any conveying materials such as food, electrical components, plastics and other materials that must be kept perfectly clean during handling.

Aesthetic appearance

If installed correctly the Rulmeca Motorized Pulley always looks good. Due to its compact size and smooth lines, the Motorized Pulley is out of sight, because it is hidden within the conveyor frame.

Thermal protection

All three phase Rulmeca Motorized Pulleys are protected by our thermal protection switches. These heat-sensitive switches are built into the motor windings to protect the motor from overheating. The thermal protectors must be connected to a normally closed control circuit in order to protect the motor.

Weight saving and distribution

The Rulmeca Motorized Pulley is often lighter than exposed drives. It is possible to reduce the weight and cost of the conveyor structure, because the conveyor drive weight is evenly distributed within the conveyor frame.

Variable frequency drive

All Rulmeca Motorized Pulleys with 3 phase motors are easily controlled by variable frequency drives working in the 12 Hz to 66 Hz frequency range. See Technical Precautions in the catalogue.

Fewer parts

A Rulmeca Motorized Pulley consists of the Motorized Pulley and two fixing brackets! Exposed drives can require up to eight or more separate components, most of which have to be purchased from different suppliers or custom manufactured.

Low noise

Thanks to the totally sealed enclosure and high quality gears the Rulmeca Motorized Pulley runs almost at a whisper – a very important fact in today's modern factory environments.

The Rulmeca Motorized Pulley – the ideal drive unit for conveyors “Fit it and forget it!”