

# FEATURES AND BENEFITS OF RULMECA MOTORIZED PULLEYS

## **Purpose-built design**

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

## **Totally enclosed**

The motor, gearbox and bearings are totally enclosed and 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 takes up much less room than a conventional drive. No need for costly extras like chains, v-belts, couplings, bearings, support structure and special guarding.

## **Safety**

The Rulmeca Motorized Pulley is probably 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 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 20,000 hours and oil seal change every 30,000 hours. In other words almost 10 years between oil changes based on an 8-hour/day working week. Synthetic oil can be specified to extend the service range up to 50,000 hours.

## **Efficiency**

The Rulmeca Motorized Pulley usually has a much higher efficiency from electrical motor to shell (Pulley face) than conventional drives, because it has fewer frictional losses, and therefore mechanical 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, quite often 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 switch. This heat sensitive switch is built into the motor windings to protect the motor from overheating. The thermal protector must be connected to a normally closed circuit.

## **Weight saving and distribution**

Often the Rulmeca Motorized Pulley is lighter than conventional drives and often it is possible to reduce the cost of the conveyor structure, because the weight is evenly distributed within the conveyor frame.

## **Variable frequency converter**

All Rulmeca Motorized Pulleys with 3 phase motors can be easily controlled by variable frequency converters. For further details we refer to the technical descriptions at the end of the catalog.

## **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. However, for some special application, a lower noise level could be required.

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