

# GENERAL DESCRIPTION

**The Rulmeca Motorized Pulley was first produced in 1953 specifically for use on conveyors belt applications.**

**The aim was to produce a compact, hermetically sealed, highly efficient conveyor drive unit that would be unaffected by dust, water, oil, grease or other harmful substances. A Motorized Pulley that would be quick and simple to install and require virtually no maintenance.**

These aims were achieved and today the Rulmeca Motorized Pulley is considered to be one of the most reliable, effective and safe conveyor drive systems available throughout the world.

The Rulmeca Motorized Pulley is a highly efficient geared motor drive, which is hermetically sealed in a steel cylindrical shell.

The shell, which is normally crowned to ensure belt tracking, is fitted with bearing housings incorporating precision bearings, double lipped oils seals and rotates on a pair of shafts.

The motor stator is fixed to the shafts and the motor winding cables passes through one of the shafts, eliminating the need for slip rings and brushes.

The squirrel cage induction motor, manufactured in steel laminate, is machined concentric to high tolerances and designed to give a strong starting torque for 3 phase versions.

The rotor pinion is coupled directly to the gearbox.

The gearbox transmits torque to the shell through a geared rim and provides a highly efficient motor, with very little frictional losses.

The Motorized Pulley is oil filled, which acts as a lubricant and coolant. Heat is dissipated through the shell and conveyor belt.

All vital parts are CNC machined!

**Motorized Pulleys are produced according to following standards:**

#### **DIN VDE 0100**

Group 400 "Protective measures"

#### **VDE 0298**

Application of cables and cords in power installations

#### **VDE 0530**

Rotating electrical machines (part of IEC 60034)

#### **Directive 2014/30/EU**

EMC - Electromagnetic compatibility

#### **VDE 0839-6-4:2011-09**

EMC- Electromagnetic compatibility- Emission standard for industrial environments

#### **VDE 0838-3:2014-03**

EMC- Electromagnetic compatibility- Limitation of voltage changes, voltage fluctuations and flicker...

#### **CE-Declaration:**

**CE-Declaration label on Motorized Pulley is valid for product conformity to Directive 2014/30/EU (EMC) and to Directive 2014/35/EU (low voltage limits)**

Rulmeca Motorized Pulleys are manufactured according to the Council Directives of the European Communities.