



## General Description

The Rulmecca Motorized Pulley was first produced in 1953 specifically for use on conveyor belt applications.

Until recently it was known as the JOKI Motorized Pulley or JOKI drum motor.

The objective 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.

The Rulmecca Motorized Pulley achieved this objective and today is considered to be one of the most reliable, effective and safe conveyor drive systems available throughout the world.

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

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

The motor stator is fixed to the shafts and the motor winding cables pass 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 200% 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 allows very little frictional torque loss.

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

All vital parts are CNC machined.

The Rulmecca Motorized Pulley is supplied as standard with:

- Machined mild steel crowned shell.
- Electric motor manufactured in accordance with IEC 34-1 (EN60034-1), (VDE 0530).
- Class F insulation according to IEC 34-1 (EN60034-1), (VDE 0530).
- Most international voltages.
- Standard voltages supplied with +/- 10% tolerance in accordance with IEC 38.
- Factory oil filled and tested.
- Degree of protection IP66/67 (EN60034-5).

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

The CE-marking is according to Directive 73/23/EEC relating to electrical equipment and according to Directive 89/336EEC relating to electrical magnetic compatibility and amendments.