



General Description & Product Portfolio

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

The objective was to produce a compact, hermetically-sealed, highly efficient conveyor drive that would be unaffected by dust, water, oil, grease or other harmful substances. A Motorized Pulley was to be simple to install and require very little 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 cylindrical steel shell.

The shell, which is normally crowned to ensure belt tracking, is fitted with bearing housings incorporating precision bearings and double lip oil 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 steel (type LS) and aluminum (type LP) crowned shell.

- Electrical motor manufactured in accordance with IEC 34-1 (EN60034-1), (VDE0530).
 - Class F insulation according to IEC 34-1 (EN60034-1), (VDE0530).
 - Most international voltages.
 - Standard voltages supplied with +/- 10% tolerance in accordance with IEC 38.
 - Factory oil-filled and tested.
 - Degree of protection IP66 (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.

Model		80LP	113LP	138LP	80LS	113LS	138LS	165LS
Diameter [in]		3.37	4.47	5.32	3.21	4.53	5.45	6.50
Power [HP]	from	0.08	0.08	0.08	0.05	0.05	0.13	0.15
	to	0.16	0.50	0.74	0.21	0.75	1.33	3.00
Belt Pull [lbs]	from	24	16	18	22	33	60	63
	to	112	202	594	137	339	700	990
Belt Speed [fpm]	from	14	6	8	26	12	10	12
	to	150	240	240	220	384	480	768
Roller Length RL [in]	from	9.96	10.08	10.23	7.87	9.84	11.81	13.78
	to	35.43	47.24	47.72	47.24	5.12	72.83	78.74