



Motorized Pulley 80LP

A strong capable drive for small light duty conveyors

Product description

Due to its strength, reliability and no need for maintenance this motorized pulley is used in small conveyors, packaging machines and simple transfer units.

Characteristics

- Asynchronous motor AC three-phase or single-phase
- Single supply voltage
- on request: 3-phase dual voltage (possible delta/star connection)
- Integral motor protection
- Gearbox planetary-type polymer or polymer / steel combination
- Low noise operation
- Light and distributed weight
- Maintenance free
- Lifetime lubrication
- Reversible operation

Applications

- Small conveyors for light loads, non-continuous use
- Transfer Conveyors
- Packaging machines for light loads
- Food processing equipment, metal detection, x-ray
- Cash desks in supermarkets
- Dry, damp and wash down applications

Technical data	
Motor Data	
Type of Motor	Asynchronous squirrel-cage, IEC 34 (VDE 0530)
Insulation class of motor windings	Class F, IEC 34 (VDE 0530)
Voltage	230 or 400 V \pm 5% (IEC 34/38)
Frequency	50/60 Hz
Internal shaft sealing system	Double-lipped of nitrile rubber, NBR
External shaft sealing system	Deflection seal nitrile rubber, NBR
Protection rate	IP66
Thermal protection	bimetallic Contact
Ambient temperature, 3-phase motor	+5 to +40 °C
Ambient temperature, 1-phase motor	+10 to +40 °C
General technical data	
Max. Roller length (RL)	900 mm

Motorized Pulleys with RL length greater than 550 mm have reinforced shaft.
All data and values declared in the catalogue refer to operation with a frequency of 50 Hz.



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Materials

The following Motorized Pulley components are available in different versions, as shown in the below chart, with further options for the material type as indicated.

Component	Version	Material			
		Standard Aluminium	Steel	Option Stainless Steel	Brass /Nickel
Shell	Crowned	Std	✓	✓	
	Cylindrical	✓	✓	✓	
	Special crowns with grooves	✓	✓	✓	
End housing	Standard	Std		✓	
Shaft cap	Standard (with straight/90° free position cable)	Std			
	With cable protection			✓	✓
Electrical connection	Straight or 90° cable connector			✓	✓
	Elbow connector	✓		✓	

Please contact Rulmecca for further versions.

Options

- Rubber lagging for standard belts
- Dynamic balancing
- 3-phase dual supply voltage (possible delta/star connection)
- Food grade Oil (EU, FDA and USDA)
- Low temperature Oil
- Non-horizontal mounting (more than $\pm 5^\circ$)
- For special versions, please contact RULMECA

Accessories

- Mounting brackets
- Idler pulleys
- Rollers for conveyors

Cable Specifications

Cable options available:

- Standard, shielded
- Standard, unshielded
- Halogen-free, shielded
- Halogen-free, unshielded

Available lengths: 1,5 / 3,0 m (other lengths available on request).



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Mechanical data for 3-phase motor-50Hz

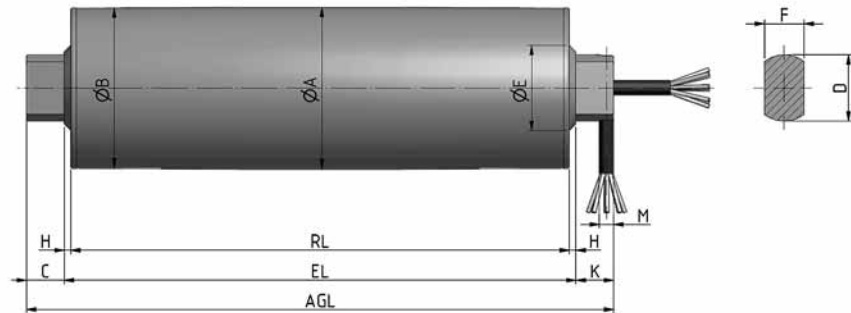
Rated Power [kW]	Poles n.	Gear stages n.	Rated speed of the shell [m/s]	Rated revolutions of the shell [min-1]	Rated torque of Motorized pulley [Nm]	Rated tangential force [N]	Max. belt tension T1+T2 [N]	Min. length RL [mm]
0,06	4	3	0,10	22,5	25,5	600	2000	269
			0,11	24,7	23,2	545		
			0,12	27,0	21,9	490		
			0,15	33,7	16,8	400		
			0,16	36,0	15,7	375		
			0,19	42,7	13,5	315		
		0,24	53,9	10,7	250			
		2	0,39	87,6	6,7	155	253	
0,12	4	3	0,19	42,7	26,9	630	2000	292
			0,24	53,9	21,3	500		
		2	0,39	87,6	13,1	310		1500
			0,46	103,4	11,1	260		
			0,49	110,1	10,4	245		
			0,59	132,6	8,6	203		
			0,77	173,0	6,6	156		

Mechanical data for 1-phase motor-50Hz

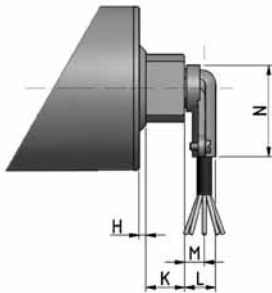
Rated Power [kW]	Poles n.	Gear stages n.	Rated speed of the shell [m/s]	Rated revolutions of the shell [min-1]	Rated torque of Motorized pulley [Nm]	Rated tangential force [N]	Max. belt tension T1+T2 [N]	Min. length RL [mm]
0,06	4	3	0,10	22,5	25,5	600	2000	280
			0,11	24,7	23,2	545		
			0,12	27,0	21,9	490		
			0,15	33,7	16,8	400		
			0,16	36,0	15,7	375		
			0,19	42,7	13,5	315		
		0,24	53,9	10,7	250			
		2	0,39	87,6	6,7	155	269	
0,075	4	3	0,15	33,7	20,4	480	2000	292
			0,16	36,0	19,1	450		
			0,19	42,7	15,9	375		
		2	0,24	53,9	13,1	312	1500	276
			0,39	87,6	8,1	192		
			0,46	103,4	6,8	163		
			0,49	110,1	6,4	153		
			0,59	132,6	5,4	127		
0,09	4	3	0,15	33,7	25,5	600	2000	292
			0,16	36,0	23,9	563		
			0,19	42,7	19,9	474		

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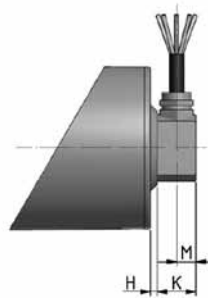
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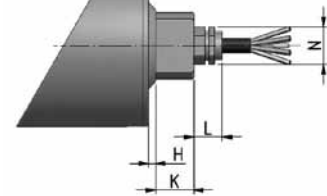
Motorized Pulley Standard Version.



Elbow connector in aluminium.



Cable connection 90°.



Straight connector.

Type/Option	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	K mm	L mm	M mm	N mm	Q mm	T mm
Motorized Pulley Standard Version	85,5	84,5	20	35	45	21		3	20		8			
Elbow connector in aluminium									20	18	12	48		
Cable connection 90 °									20		10			
Straight Connector									20	15		20		

Std. RL shell lengths (mm)	300	350	400	450	500	550	600	650	700	750	800	850	900
Avrg. weighth (kg)	4,3	4,5	4,7	4,9	5,1	5,3	5,5	7,6	8	8,3	8,6	9	9,3

- Min lengths: see table at pag.12
- Max length: 900 mm
- Weights are orientative due to different shell executions and motor powers