

MOTORIZED PULLEY 165LS

Ø 165 mm

Motorized Pulley 165LS, with machined helical gear box, performs an efficiency, in a compact diameter of 165 mm only. With a min RL of 400 mm and powers ranging from 0.11kW to 1.5kW this size of motorized pulley is suitable for most duties requiring such a small diameter – e.g.:

- Light agriculture and bulk solids handling conveyors
- Mobile or portable conveyors
- As a drive unit for brush cleaners etc.

Motorized pulley 165LS has standard IP66/67 enclosure and is available in complete stainless steel execution for wash down application.

For the choice of the Motorized Pulley it is very important to know or to calculate the belt tension T_1+T_2 (radial load). This **MUST NOT OVERCOME** the “max. radial load” allowed as shown in the catalogue.

Be careful to very high belt tensions when using thick, heavy and/or large belts.

If the type 165LS cannot provide the necessary max. radial load T_1+T_2 , you have to choose a Motorized Pulley with a bigger diameter.

STANDARD SPECIFICATION of motorized pulley

- Crowned mild steel shell, outside diameter 165mm.
- Mild steel shafts.
- Shell and shafts treated with anti-rust wax.
- Die cast aluminium bearing houses.
- Gearbox from die cast aluminium 2- and 3-stages.
- Sealing system-degree of protection IP66/67 (EN60034-5).
- Die cast aluminium terminal box with WAGO clamp.
Voltage: most common globally used voltages available. Please specify!
- 3-phase induction motor with one rated voltage – either low or high voltage
- Available in both 50Hz or 60Hz.
- Star connection (Delta connection on request).
- Motor windings with insulation class F (insulation class H on request).
- Dynamical balanced rotor.
- Two oil plugs (one with magnet).
- Minimum roller length (RL) 400mm (0.37kW: min RL 350mm).
- Max. RL 1800mm (longer RL on request).
- Standard mineral oil ISOVG150 (synthetic oil ISOVG220 on request).
- Oil change recommended every 20.000 operational hours.
- Without start capacitor the starting torque is 70% of the nominal torque only
- For horizontal installation (angled and vertical installation on request)

STAINLESS STEEL

Stainless steel version or rust-resistant version on request -
For an optimum design of the correct anti-corrosion performance, we need the properties of the materials being conveyed. Our sales team will offer you the best available solution.

When ordering, please specify the required voltage, electrical connection, options, brackets and idler pulleys.

- Environmental conditions: page 68/69
- Technical precautions: page 71 ff.,
- Optional extras: page 21,
- Connection diagrams: page 87 ff.

MOTORIZED PULLEY 165LS

Optional extras

SPECIFICATIONS		165LS
Total stainless steel option AISI 304 range	Re-greasable labyrinth seals!	On request!
Food grade oil & grease - FDA & USDA recognized - available on request		x
Dust explosion proof Motorized Pulleys - ATEX 95 - Zone 22 - for applications handling of dusty grain etc. according to European ATEX 2014/34/EU.		On request!
Black rubber lagging - STANDARD specifications: - Smooth lagging - Hardness 60 ±5 Shore A - Diamond lagging - Hardness 60 ±5 Shore A		o
White smooth rubber lagging (FDA). Oil, fat & grease resistant		o
Single phase motors available on request		x
Electromagnetic brake (for 5.5 kW not available)		x
Min. RL dimensions by (mm)		50
Mechanical backstop		x
Modified for vertical mounting		o
Modified for mounting between 5° - ≤90° - e.g. for magnetic separators		o
Insulation class F - Allowable ambient temperature: -25°C/+40°C		Std.
Insulation class H with synthetic oil - Allowable ambient temperature: -20°C/+40°C		x
Parallel shell		x
Thermal protector		Std.
IP66/67 Compact stainless steel - AISI 304 range - terminal box		x
Straight or elbow connector with flying lead		x
Straight connector with flying lead - Stainless steel - AISI 304 range -		x
Shaft sealing system - degree of protection IP66/67 (EN60034-5)		Std.
Screened cables - a MUST together with Frequency Converters		x
Special voltages - 50 and/or 60 Hz Please specify!		x
CSA approved motors - available on request only!		x

x = Optional extras

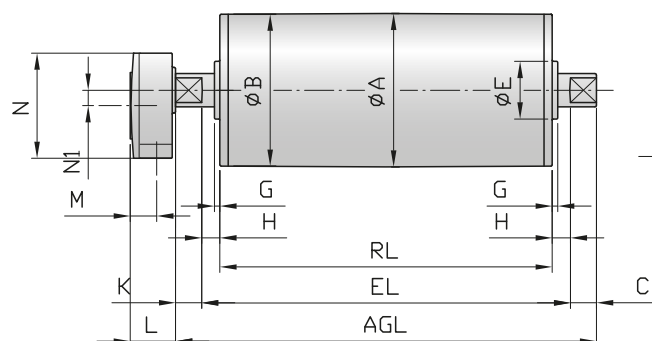
o = Available as option with certain limitations. Please refer to Technical precautions pages 71 ff.

Std. = Fitted as standard

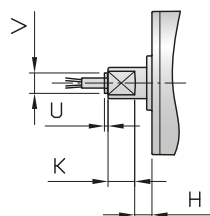
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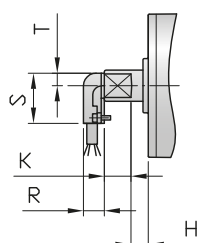
Motorized Pulley with Terminal box



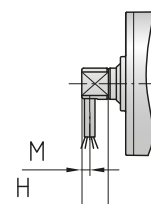
Straight connector



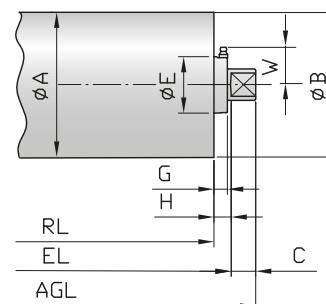
Elbow connector



Front shaft with cable slot



Idler pulley SS version

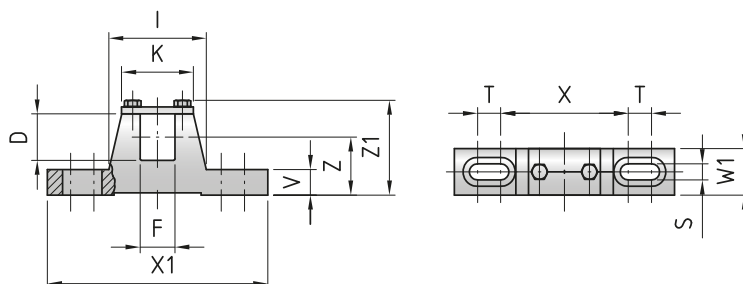


Standard measurements Type / Option	Ref.	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	K mm	W mm	L mm	M mm	N mm	N1 mm	U mm	V mm	R mm	S mm	T mm
165 LS / UT165LS		165	163.5	45	40	80	30	10	20	45	48	41	24	95	14					
SS version (regreasable seals)						64.5		13.5	20							4	27			
Straight connector									20	45						4	27			
Elbow connector									20	45								20	48	12
Front shaft with cable slot										45			8-11							

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Mounting brackets
KL40



Motorized Pulley	Material	Dimension												Weight
Type		D mm	F mm	I mm	K mm	S mm	T mm	V mm	W1 mm	X mm	X1 mm	Z mm	Z1 mm	kg
165 LS	Steel	40	30	84	62	14	20	22	40	110	190	50	83	2.1

Further product details:



https://www.rulmeca.com/contenuti/qr_code/english/165.pdf

MOTORIZED PULLEY 165LS

Ø 165 mm - 50 Hz

Motor			Nominal belt speed at Full Load 50Hz m/sec	Torque Nm	Belt Pull N	Max. Radial Load T1+T2* N	Weight in kg for STANDARD width Dimension RL in mm																	Type of Bracket
Power kW/HP	No. of Poles	Gear stages					350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	per 50 mm up to 1800	
0.11/0.15	12	3	0.05 0.06 0.08 0.10	170 141 113 86	2070 1700 1375 1045	9330		29	30.5	32	33	34	35	36.5	38	39	40	41.5	43	44	46	47	Available on request	KL41 -HD
0.37 0.50	6	3	0.13 0.16	239 193	2905 2345	9330		30	31.5	33	34	35	36	37.5	39	40	41	42.5	44	45	47	48		
	4	3	0.20 0.25 0.32 0.40	157 127 97 77	1910 1545 1175 930	9330	26	28	29.5	31	32	33	34	35.5	37	38	39	40.5	42	43	45	46		
			2	0.50 0.63 0.80 1.00	60 49 38 29																			
0.75/1.00	6	3	0.16	341	4140	9330		33	34.5	36	37	38	39	40.5	42	43	44	45.5	47	48	50	51		
	4	3	0.20 0.25 0.32 0.40	302 248 189 162	3665 3005 2295 1815	9330		31	32.5	34	35	36	37	38.5	40	41	42	43.5	45	46	48	49		
			2	0.50 0.63 0.80 1.00	119 96 72 57																			
1.10/1.50	4	3	0.25 0.32	332 272	4030 3305	9330		34	35.5	37	38	39	40	41.5	43	44	45	46.5	48	49	51	52		
	2	3	0.40 0.50 0.63 0.80	226 183 139 110	2745 2220 1690 1340	9330		33	34.5	36	37	38	39	40.5	42	43	44	45.5	47	48	50	51		
			2	1.00	87																		106	
		2		1.25 1.60	70 54	855 650																	8700	
				2.00 2.50	42 34	515 420																	6950	
		1.50/2.00	2	3	0.50 0.63 0.80	237 195 154																	2880 2360 1870	9330
2	1.00				122	148																		
	2			1.25 1.60	98 75	1195 910	8700																	
				2.00 2.50 3.15	59 48 39	720 585 485	6950																	

* T1+T2 value is valid for shortest available RL – in case of any questions please contact Ruimeca sales.

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Ø 165 mm - 50 Hz

Motor	Max. Radial Load T1+T2* N	Weight in kg for STANDARD width Dimension RL in mm																	Type of Bracket
		350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	per 50 mm up to 1800	
Idler Pulley UT165 LS	9330	12.5	14.0	15.5	17.0	18.5	20.0	21.5	23.0	24.5	26.0	27.5	29.0	30.5	32.0	33.5	35.0	Available on request	KL41 -HD

* T1+T2 value is valid for shortest available RL – in case of any questions please contact Rulmeca sales.



Rulmeca Motorized Pulleys in mobile Crushing & Screening. Features:
Compact, reliable and requires NO maintenance!