

MOTORIZED PULLEY 1000H & 1000HD

Ø 1000 mm

The RULMECA motorized pulley type 1000 H/HD is a highly developed reliable and strong drive with an outstanding power range of 160 – 250 kW. It is able to take a high radial load and robust in design. Therefore it is especially developed for use in:

- Mining conveyors,
- Excavators,
- Stackers,
- Reclaimers,
- Heavy loaded conveyors in gravel and sand

The motorized pulley 1000 H/HD is designed for tough, irregular, extreme and brutal working condition. The compact design allows the design engineers to save material and cost when developing the conveyor.

A high protection rate connected with the standard labyrinth sealing system it can be used in all ambient conditions.

STANDARD SPECIFICATION of Motorized Pulley

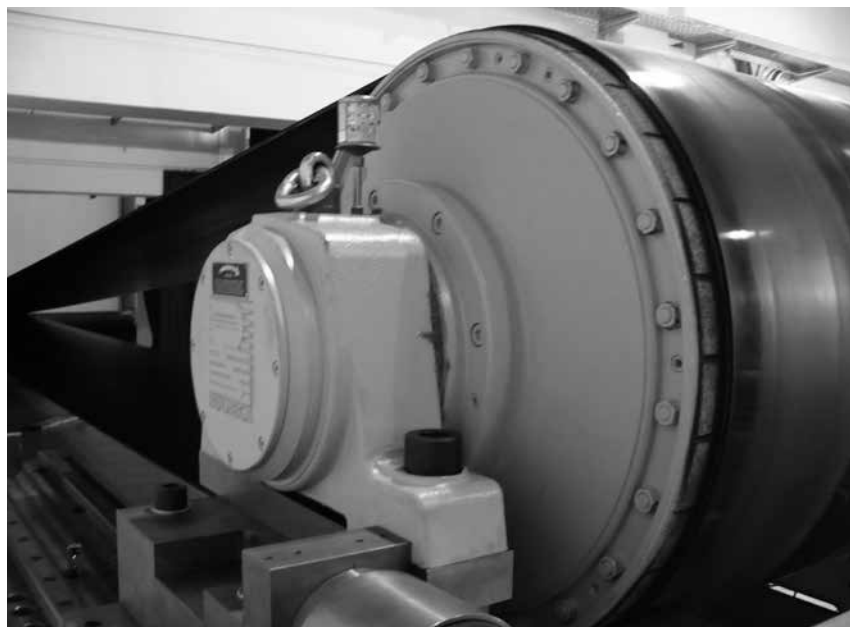
- Crowned mild steel shell + ceramic lagging, outside diameter 1020mm.
- Mild steel shafts.
- Totally enclosed cast iron brackets,
- Shell lagged with a 10mm bonded ceramic lagging.
- Bearing houses from cast steel.
- Gear 3-stage boxes from cast steel.
- Sealing system with degree of protection IP66/67 (EN60034-5).
- Terminal box from cast iron.
- 3-phase induction motors with 3 phase single voltage.
- Possible voltages 400V, 415V, 525V, 690V, 50Hz & 460V, 575V 60Hz + 500V/50Hz.
- Cast steel shafts.
- 3 bimetallic thermal protectors + 2 temperature resistors PT100 + 3 PTC resistors installed in winding

Please specify!

- Motor winding insulations class H.
- Rotor dynamically balanced.
- 2 oil plugs (with magnet).
- Minimum roller length RL = 1250 mm at 160kW & 1500 at 250kW.
- Synthetic oil EP220.
- First oil change recommended after 50.000 operational hours.
- Regreasable labyrinth seals with automatic greasing system.

Please Note!

- Environmental conditions: page 68/69
- Technical precautions: page 71 ff.,
- Optional extras: page 61,
- Connection diagrams: page 87 ff.



MOTORIZED PULLEY 1000H & 1000HD

Optional extras

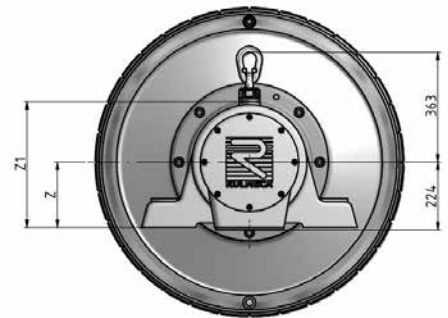
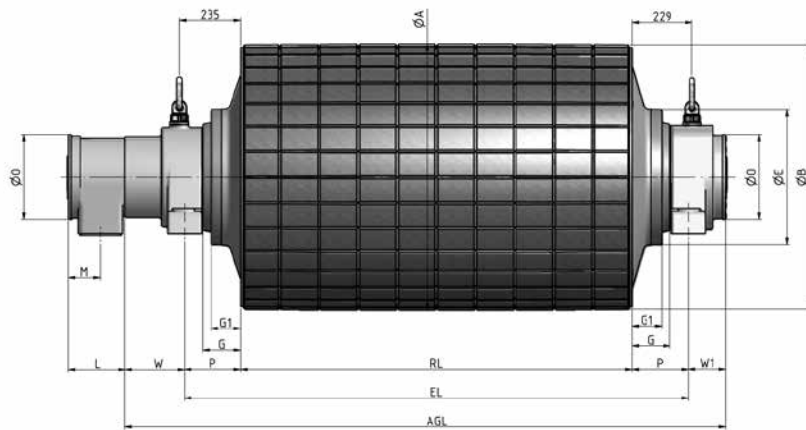
SPECIFICATIONS	1000HD
Different types and shapes of ceramic lagging	x
Mechanical backstop RL + 0	x
External brake shaft RL + 0	x
Allowable ambient temperatures -20°C until +40°C	Std.
Insulation class H with synthetic oil	Std.
Motor protection and Control by 3 bimetallic thermal protectors connected in series, 2 temperature resistors PT100 and 3 PTC-resistors connected in series	Std.
Dust Explosion proof Motorized Pulleys – ATEX95 – Zone 22 – for applications handling of dusty grain etc. according to European Directive 2014/34/EU	x
Thermal winding protection	Std.
IP66/67 cast iron terminal box	Std.
Degree of protection IP66	Std.
Triphase single voltage (3x400V, 415V, 525V & 690V at 50Hz & 460V, 575V 60Hz) with tolerances +/-10% (DIN IEC 38)	Std.
Other voltages on request and after checking the technical feasibility	x
CSA approved motors	x

Std. = standard

x = available as option

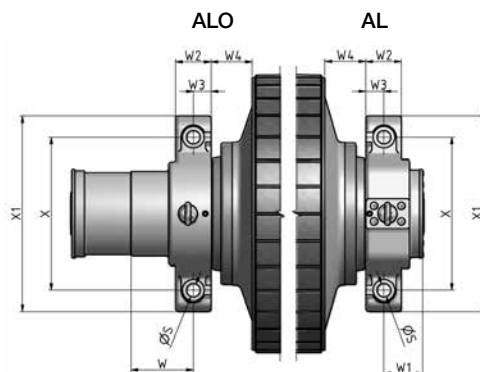
MOTORIZED PULLEY 1000H & 1000HD

Ø 1020 mm

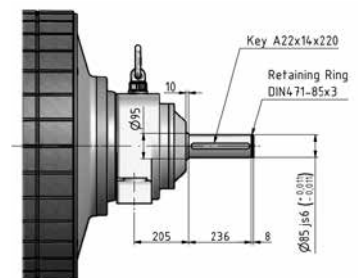


Motorized Pulley Dimension

A mm	B mm	D mm	E mm	G mm	G1 mm	L mm	M mm	O mm	P mm	W mm	W1 mm	W4 mm
1020	1014	203	520	145	114	218	122	325	215	228	143	150



Standard External Brake
Shaft Dimension



Bracket Dimension

Type	S mm	W2 mm	W3 mm	X mm	X1 mm	Z mm	Z1 mm
AL	50	130	65	560	717	215	412
ALO	50	130	65	560	717	215	412

MOTORIZED PULLEY 1000H & 1000HD

Ø 1020 mm - 50 Hz

Motor			Nominal belt speed at Full Load 50Hz m/sec	Torque	Belt Pull	Max. Radial Load T1+T2*	Min. RL	Type	Weight in kg for STANDARD width RL in mm														
Power kW/HP	No. of Poles	Gear stages							1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	per 50mm up to 2500		
160.0/218.0	6	3	1.60	45540	89280		1450	1000 HD					4450	4520	4565	4630	4695	4760	4825	4890	65 kg		
	4		2.00 *	36310	71200	300	1400						4200	4270	4315	4380	4445	4510	4575	4640		4705	
			2.50	30360	59530																		
	6	2	3.00 *	25160	49330	300	1300	1000H		4005	4075	4120	4185	4250	4315	4380	4445	4510	4575	4640			
	4		3.60	21030	41240																		
			4.50 *	16770	32890																		
			5.50	14020	27500	300																	
			6.50	11310	22170																		
			7.80	9740	19110																		
			8.50	8870	17390	220																	
9.50	7740	15180																					
200.0/272.0	4	3	2.00 */**	45390	89000			1000 HD													65 kg		
			2.50**	37950	74410																		
			3.15	30600	60010	300	1450						4450	4520	4565	4630	4695	4760	4825	4890			
			3.60	26380	51720																		
			4.00	24000	47060																		
		2	4.50 *	20960	41110			1000H															
			5.50	17530	34370	300																	
			6.50	14130	27720																		
			7.80	12180	23890																		
			8.50	11089	21740	220																	
9.50	9670	18970																					
250.0/340.0	4	3	2.50**	47430	93010			1000 HD													65 kg		
			3.15**	38250	75010	300	1500																
			3,60	32970	64650									4700	4770	4815	4880	4945	5010	5075			
			4.00	30000	58830																		
		2	4.50 *	26200	51390			1350	1000H														
			5.50	21900	42950	300																	
			6.50	17650	34650																		
			7.80	15230	29860																		
			8.50	13850	27170	220																	
			9.50	12000	23710																		

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

** Power and speeds marked with a star can be used with 100% load at clockwise direction of rotation only!

For anti-clockwise direction the motorized pulley has to be assembled in an opposite way.

Note: Please specify the outer dimension of your power supply cable.

Because of high torque the start-up of the motorized pulley has to be done with a soft starter or VFD.

We offer return, snub and idler pulleys with the dimensions to match our motors on request.