



FLAME PROOF MOTORIZED PULLEY

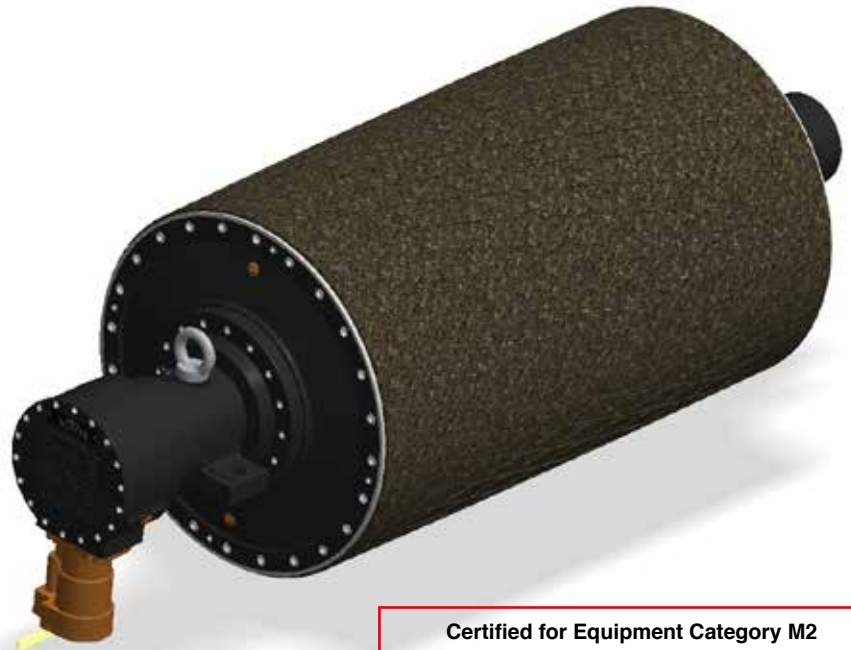


Rulmecca has developed the first motorized pulley designed and certified with flame proof enclosure "d".

This type of motorized pulley was especially designed for underground coal mine conveyors and for any other environment with hazardous dust and gas exposure which need ATEX approval.

This conveyor drive has been developed proven and certified according to the ATEX European Directive 94/9/EC, Annex III by the authorized laboratory **"IBExU Institute für Sicherheitstechnik GmbH"**.

The compliance with the Essential Health and safety Requirements has been assured by the compliance with EN 60079-0:2012 + EN 600 60079-1:2007.



**Certified for Equipment Category M2
- Atmosphere Methane & Dust -**



I M2 Ex d I Mb

EFFICIENT AND COST EFFECTIVE CONVEYOR BELT DRIVES

Increased efficiency

Rulmecca flame proof motorized pulleys have a higher efficiency compared to traditional motor transmission systems, which are normally able to transfer approximately 75% of the power used to the belt. A Rulmecca flame proof motorized pulley is able to transfer up to 97%.

Ease of installation

Rulmecca flame proof motorized pulleys are much faster and easier to install when compared to traditional multiple component motor transmission systems, typically requiring less than a quarter of the time for installation. With fewer parts to consider, conveyor design and assembly is easier and quicker, procurement is also simplified reducing overall costs.

Space-saving design

With motor, bearings and gearbox enclosed inside the pulley shell, the flame proof motorized pulleys are very compact, requiring less space & increase the functional value of the finished conveyor.

Because of the compactness, they are easy to move into the coal mine by the small mine shaft elevator cages so no disassembly is necessary.

Rulmecca flame proof motorized pulleys fit perfectly to conveyors in and around narrow coal mine roadways or headings.

No additional space on each side of the conveyor is necessary.



FLAME PROOF MOTORIZED PULLEY



Designed for the toughest conditions

Rulmeca flame proof motorized pulleys are designed to operate perfectly even in the most aggressive environmental conditions such as, in the presence of water, coal dust etc. and even during high pressure wash-down procedures.

Safety

Rulmeca flame proof motorized pulleys are safely designed in such a way as to keep internal explosions from igniting the surrounding atmosphere. With the external shafts held captive in a conveyor frame, the only moving part is the body of the pulley running under the conveyor belt. Conveyors can therefore be designed in such a way to prevent any of the drive pulley to be visible, resulting in an extremely safe method to drive conveyor belts.

Maintenance-free

The fully sealed design ensures that internal parts are not exposed to external environmental conditions or tampering. A completely self contained unit, requiring no maintenance throughout its service lifetime.

POWER AND SPEED RANGE:

Motor Power	No. of Poles	Gear stage	Nominal belt speed at Full Load	Torque	Belt Pull	Max. Radial Load T1+T2	Min. RL	Type	Weight in kg for STANDARD width Dimension RL in mm (RL >2000 mm available on request)															
									1400	1450	1500	1550	1600	1650	1700	per 50 mm up to 2000								
kW/HP			m/sec	Nm	N											30kg								
55.0 / 75.0	8	3	1.00	20884	54974	200000	1300	800HD	2390	2420	2450	2455	2485	2515	2546									
	6		1.25	16707	41300																			
	8	2	1.60	13052	32630	200000	1150	800H	2150	2175	2200	2225	2250	2275	2300	25 kg								
			2.00	10450	26125																			
			2.50	8360	20900																			
			3.15	6635	16588																			
			4.00	5225	13063																			
			4.50	4644	11610																			
75.0 / 100.0		3	1.25	22527	56318	200000	1300	800HD	2390	2420	2450	2455	2485	2515	2546	30kg								
			1.60	18496	46240																			
		2	2.00	14244	35610	200000	1150	800H	2150	2175	2200	2225	2250	2275	2300	25 kg								
			2.50	11395	28488																			
			3.15	9044	22610																			
			4.00	7122	17805																			
			4.50	6331	15828																			
90.0 / 120.0		3	1.60	21181	52953	200000	1550	800HD				2575	2530	2560	2590	30kg								
			2.00	18496	46240																			
		2	2.50	13674	34185	200000	1400	800H	2200	2225	2250	2275	2300	2325	2350	25 kg								
			3.15	10852	27130																			
			4.00	8546	21365																			
			4.50	7597	18993																			
110.0 / 150.0		3	2.00	21915	54789	180000	1550	800HD				2575	2605	2635	2665	30kg								
			2.50	17994	44984																			
		2	3.15	13264	33160	180000	1400	800H	2175	2200	2225	2250	2275	2300	2325	25 kg								
			4.00	10445	26113																			
			4.50	9265	23163																			
132.0 / 180.0		3	2.50	21592	53981	180000	1550	800HD				2615	2645	2675	2705	30kg								
			3.15	15153	37882																			
		2	4.00	12535	31338	180000	1400	800H	2215	2240	2265	2290	2315	2340	2365	25 kg								
			4.50	11142	27855																			

www.rulmeca.com

Your local Partner:

Rulmeca Group Headquarter:
RULMECA HOLDING S.P.A.
Via A.Toscanini, 1
24011 ALME' (BG) Italy
Tel. +39 035 4300111
Fax +39 035 545700
export-it@rulmeca.com