



Motorized Pulley 800M, H & 800HD, Ø 800 mm

To match your requirements in diameter 800 mm, our product range offers two different loading performances for your BULK applications:

- 800M, 800H
- 800HD

You have a choice.

Therefore, it is important to notice the differences to choose the right type of pulley for the right application based on estimated belt tension (radial load) = T1+T2. The actual radial load **MUST** be **LESS** than the max. allowable radial load shown in this catalogue.

Be aware of increased belt tensions using multi-ply thick heavy belts and/or larger belt widths.

Motor/gearbox of 800M has its origin from 630H.

800M, H & 800HD are designed for HEAVY DUTY applications and they provide the necessary torque, belt pull and allowable belt tension in order to handle the toughest, irregular & most extreme and brutal working conditions.

STANDARD SPECIFICATION of Motorized Pulley

- Crowned mild steel Ø 800 mm steel shell painted yellow - min. layer of 60 µm
- Bolted powder coated cast iron bearing housings and covers, all painted yellow – min. layer of 60 µm
- Mild steel shafts
- Shaft sealing system - degree of protection IP66/67 (EN60034-5)
- Cast iron terminal box painted yellow – min. layer of 60 µm
- 3-phase induction motors with thermal protector
- Voltage: 3-phase single voltage. Most common voltages available. Please specify!
- Motor winding insulation Class F
- Dynamically balanced rotor
- Two oil plugs each fitted with a magnet to filter the oil
- Yellow painted cast steel mounting brackets – one type AL & one type ALO
- Oil change recommended every 20.000 operational hours
- Maximum RL – Please inquire!
- Non standard RL's available
- To be used in horizontal positions ±5 degree only!
- Special speeds available on request.

SEMI-RUST-FREE options

TS11

- Painted mild steel shell – min. layer of 120 µm
- Painted cast iron end housings – min. layer of 120 µm
- Stainless steel covers with labyrinth grooves – AISI 304 range
- Nitrided shaft sleeves
- Zinc-plated oil plugs – each with magnet
- Zinc-plated exterior bolts
- Shaft sealing system – degree of protection IP66/67 (EN60034-5)
- Painted terminal box – min. layer of 120 µm
- Nickel plated mounting brackets with labyrinth grooves

TS12

- As TS11, but without re-greasable seals.
- Covers - standard

Please note:

- FDA & USDA food grade recognized oil and grease are NOT included in TS11 & TS12, but available on request.

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

- Environmental considerations: page 77-78
- Technical precautions: pages 81-92
- Optional extras: page 65 and back cover
- Connection Diagrams: page 100.



OPTIONAL EXTRAS

Motorized Pulley 800M, H & 800HD

Specification	800M	800H/HD
Semi-rust-free option Re-greasable labyrinth seals!	TS11	TS11
Semi-rust-free option Standard seals!	TS12	TS12
Dust explosion proof Motorized Pulleys - ATEX 95 - Zone 22 - for applications handling of dusty grain etc. According to European Directive 94/9/EC.	On request!	On request!
Re-greasable labyrinth seals - mild steel	x	x
Black rubber lagging - STANDARD specifications: - Smooth lagging - Hardness 60 ±5 Shore A - Diamond lagging - Hardness 60 ±5 Shore A	o 10 mm 10 mm	o 10 mm 10 mm
White smooth rubber lagging (FDA). Oil, fat & grease resistant	x	x
SPECIAL lagging available on request - e.g. hot vulcanized, ceramic etc.	x	x
External brake shaft for connection to mechanical brake	x	x
Mechanical backstop	x	x
Insulation class F - Allowable ambient temperature: -25°C-+40°C	Std.	Std.
Insulation class H with synthetic oil	x	x
Parallel shell	x	x
Thermal protector	Std.	Std.
IP66/67 cast iron terminal box painted yellow	Std.	Std.
Shaft sealing system - degree of protection IP66/67 (EN60034-5)	Std.	Std.
3-phase single voltage (3 x 400 V) or (3 x 690V), 50 Hz, with +/-10% tolerance - DIN IEC 38	Std.	Std.
Special voltages - 50 and/or 60Hz Please specify!	x	x
Dual voltage - delta/star - connection possibility!	x	x
CSA approved motors - available on request only!	x	x

x = Optional extra's

o = An option with certain limitations. Please refer to Technical precautions pages 81-92!

Std. = Fitted as standard



Motorized Pulley 800M, Ø 800 mm

50 Hz

Motor Power kW/HP	No. of Poles	Gear stage	Nominal belt speed at Full Load 50Hz m/sec	Torque Nm	Belt Pull N	Max. Radial Load T1+T2 N	Min. RL	Type	Weight in kg for STANDARD width								Type of Bracket
									Dimension RL in mm (RL >2000 mm available on request)								
									950	1000	1050	1100	1150	1200	1250	per 50 mm up to 2000	
22.0/30.0	8	2	1.25	6688	16720	73600	950	800M	935	948	960	973	985	995	1005	13 kg	AL90/ALO90
			1.60	5223	13058												
			2.00	4178	10445												
			2.50	3343	8358												
			3.15	2653	6633												
30.0/40.0	8	2	1.60	7122	17805	98100	950	800M	975	988	1000	1013	1025	1035	1045	13 kg	AL90/ALO90
			2.00	5698	14245												
			2.50	4558	11395												
			3.15	3617	9043												
37.0/50.0	6	2	2.00	7030	17575	98100	950	800M	975	988	1000	1013	1025	1035	1045	13 kg	AL90/ALO90
			2.50	5622	14055												
			3.15	4462	11155												
			4.00	3513	8783												
45.0/61.0	4	2	3.15	5426	13565	88300	950	800M	995	1008	1020	1033	1045	1055	1065	13 kg	AL90/ALO90
			4.00	4273	10683												
55.0/75.0	4	2	3.15	6584	14581	88300	950	800M	995	1008	1020	1033	1045	1055	1065	13 kg	AL90/ALO90
			4.00	5223	13058												
Idler Pulley						98100	750	UT630M	327	336	345	354	362	371	380	9 kg	AL90/ALO90

Motorized Pulley 800H/HD, Ø 800 mm

50 Hz

Motor Power kW/HP	No. of Poles	Gear stage	Nominal belt speed at Full Load m/sec	Torque Nm	Belt Pull N	Max. Radial Load T1+T2 N	Min. RL	Type	Weight in kg for STANDARD width								Type of Bracket													
									Dimension RL in mm (RL >2000 mm available on request)																					
									1400	1450	1500	1550	1600	1650	1700	per 50 mm up to 2000														
55.0/75.0	8	3	1.00	20884	54974	200000	1300	800HD	2390	2420	2450	2455	2485	2515	2546	30kg	AL121/ALO121													
	6		1.25	16707	41300																									
	8		1.60	13052	32630																									
75.0/100.0	6	2	2.00	10450	26125	200000	1150	800H	2150	2175	2200	2225	2250	2275	2300	25 kg	AL120/ALO120													
			2.50	8360	20900																									
			3.15	6635	16588																									
			4.00	5225	13063																									
			4.50	4644	11610																									
90.0/120.0	6	3	1.25	22527	56318	200000	1300	800HD	2390	2420	2450	2455	2485	2515	2546	30kg	AL121/ALO121													
			1.60	18496	46240																									
		2	2.00	14244	35610	200000	1150	800H	2150	2175	2200	2225	2250	2275	2300	25 kg	AL120/ALO120													
			2.50	11395	28488																									
			3.15	9044	22610																									
110.0/150.0	4	2	4.00	7122	17805	180000	1550	800HD	2200	2225	2250	2275	2300	2325	2350	25 kg	AL120/ALO120													
			4.50	6331	15828																									
			1.60	21181	52953													200000	1400	800H	2200	2225	2250	2275	2300	2325	2350	25 kg	AL120/ALO120	
			2.00	18496	46240																									
			2.50	13674	34185													180000	1550	800HD	2175	2200	2225	2250	2275	2300	2325	2350	25 kg	AL120/ALO120
3.15	10852	27130																												
4.00	8546	21365																												
132.0/180.0	4	3	4.50	7597	18993	180000	1400	800H	2215	2240	2265	2290	2315	2340	2365	25 kg	AL120/ALO120													
			2.00	21915	54789													200000	1550	800HD	2175	2200	2225	2250	2275	2300	2325	2350	25 kg	AL120/ALO120
			2.50	17994	44984																									
			3.15	13264	33160													180000	1550	800HD	2175	2200	2225	2250	2275	2300	2325	2350	25 kg	AL120/ALO120
			4.00	10445	26113																									
4.50	9265	23163																												
Idler Pulley			2.50	21592	53981	180000	1550	800HD	2215	2240	2265	2290	2315	2340	2365	25 kg	AL120/ALO120													
			3.15	15153	37882																									
			4.00	12535	31338																									
Idler Pulley						200000	1150	UT630H	700	715	730	745	760	775	790	15 kg	AL120/ALO120													

Sectional drawings: please refer to pages 68-70!