



RESATEC MOTOR BASE MW 8

MW 8-270 / MW 8-400 / MW 8-500

+ SELF-ADJUSTING
+ BELT PROTECTING

+ ENERGY-SAVING
+ MAINTENANCE-FREE



The RESATEC-MW 8 is the universal motor base for friction belt drives of 7.5 to 45 kW motors.

According to the number of belts and belt type, the base can be adjusted in a continuously variable way. It is equipped with two integrated axle stabilizers, robust and maintenance-free pretensioning device and a screw head bracket for simple and safe one-man installation.

The mounting holes for all motor housing sizes (IEC 160M-225M / NEMA of 254T-365T) are already

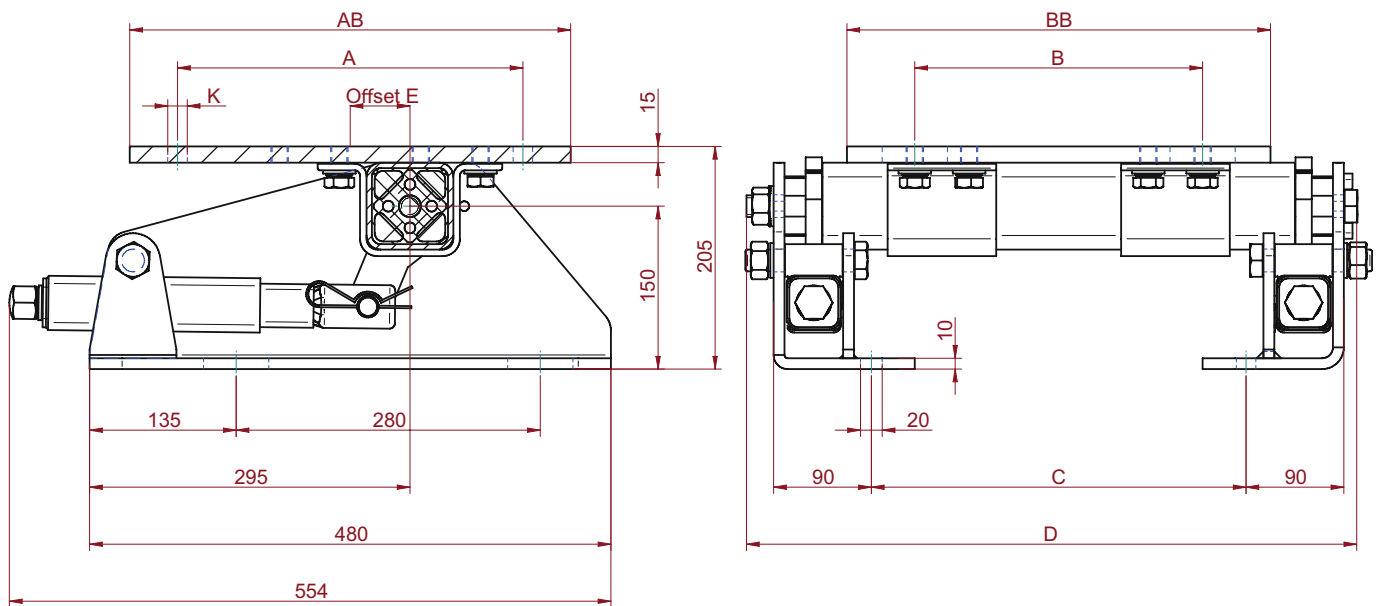
provided. The use of the RESATEC motor base guarantees the optimal belt tension at any time. This means minimum maintenance and maximum efficiency through a perfect traction.

ADVANTAGES

+ The replacement time of the V-belt is reduced by 50%. No realignment of the drive pulleys when changing belts.

- + Up to four times longer belt life due to correct tension.
- + Less operational interruptions and protection of the pulleys, bearings and motor axes.
- + Less energy consumption through perfectly tensioned V-belts.
- + Accident prevention through safe and easy handling.
- + All parts galvanized.
- + Absolutely maintenance-free.

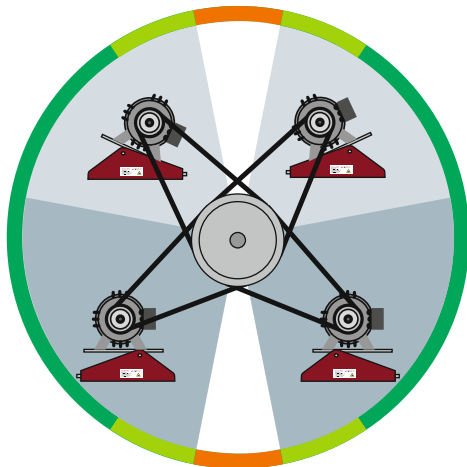
DIMENSIONS MW 8



Item number	Type	Motor frame size	Motor power (approx.)		A	B	K	AB	BB	C	D	E	Weight
			IEC 1000 min ⁻¹ NEMA 1200 min ⁻¹	IEC 1500min ⁻¹ NEMA 1800 min ⁻¹									
[all specifications in mm]													
586 082 70	MW 8 - 270	IEC 160M	7.5kW	11 kW	254	210	14	335	350	245	463	38	46
586 082 70	MW 8 - 270	IEC 160L	11 kW	15 kW	254	254	14	335	350	245	463	38	46
586 082 70	MW 8 - 270	NEMA 254T	7.5 hp	15 hp	254	210	14	335	350	245	463	38	46
586 082 70	MW 8 - 270	NEMA 256T	10 hp	20 hp	254	254	14	335	350	245	463	38	46
586 082 70	MW 8 - 270	IEC 180M		18.5 kW	279	241	14	335	350	245	463	38	46
586 082 70	MW 8 - 270	IEC 180L	15 kW	22 kW	279	279	14	335	350	245	463	38	46
586 082 70	MW 8 - 270	NEMA 284T	15 hp	25 hp	279	241	14	335	350	245	463	38	46
586 082 70	MW 8 - 270	NEMA 286T	20 hp	30 hp	279	279	14	335	350	245	463	38	46
586 084 00	MW 8 - 400	IEC 200L	18.5/22 kW	30 kW	318	305	18	406	390	345	554	55	60
586 084 00	MW 8 - 400	NEMA 324T	25 hp	40 hp	318	267	18	406	390	345	554	55	60
586 084 00	MW 8 - 400	NEMA 326T	30 hp	50 hp	318	305	18	406	390	345	554	55	60
586 085 00	MW 8 - 500	IEC 225S		37kW	356	286	18	466	420	425	643	72	64
586 085 00	MW 8 - 500	IEC 225M	30 kW	45 kW	356	311	18	466	420	425	643	72	64
586 085 00	MW 8 - 500	NEMA 364T	40 hp	60 hp	356	286	18	466	420	425	643	72	64
586 085 00	MW 8 - 500	NEMA 365T	50 hp	75 hp	356	311	18	466	420	425	643	72	64

The motor plate of the RESATEC motor base MW 8 is supplied «offset» mounted. Depending on the requirements the motor plate can also be mounted «centrically» above the axis. Corresponding mounting holes are already existing. For an increased angle of inclination (drive at top), the pretension lever(s) can be removed and remounted in a 45° offset position.

INSTALLATION AREA MW 8



MOTOR POSITION ABOVE

Motor plate is inclined at approx. 30°



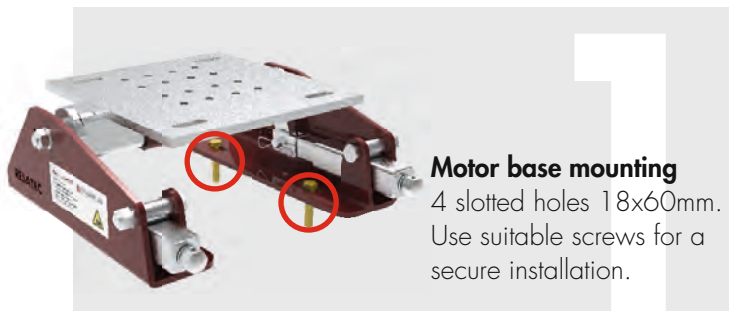
maximum tension range, ideal setting
possible setting
clarification necessary



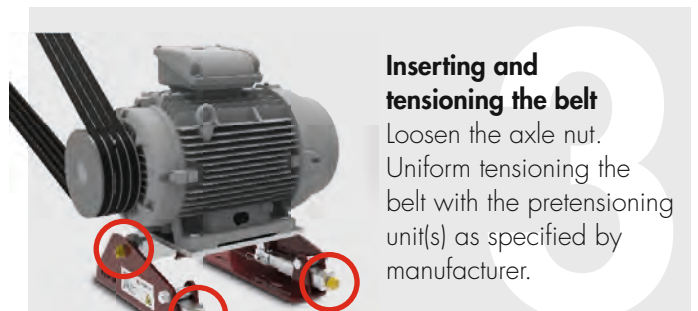
MOTOR POSITION BELOW

Motor plate stands approx. horizontally

MOUNTING INSTRUCTION

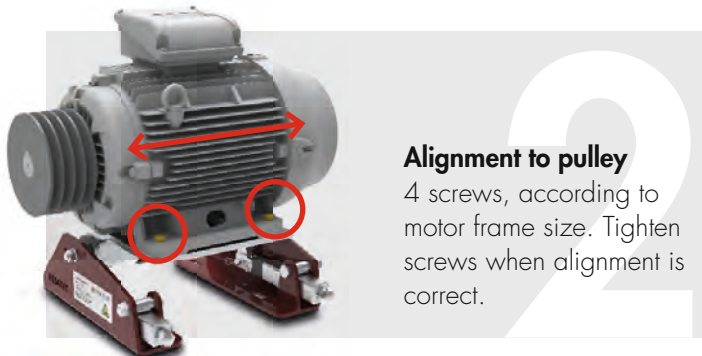


Motor base mounting
4 slotted holes 18x60mm.
Use suitable screws for a secure installation.



Inserting and tensioning the belt

Loosen the axle nut.
Uniform tensioning the belt with the pretensioning unit(s) as specified by manufacturer.



Alignment to pulley
4 screws, according to motor frame size. Tighten screws when alignment is correct.



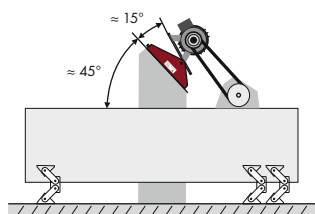
Tightening and start-up

Securely tighten the axle nut (400N) and start-up the system.

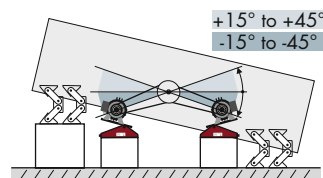
DEFAULT POSITIONING

These recommendations are based on practical experience. A test run shows the ideal installation position.

OVERHEAD

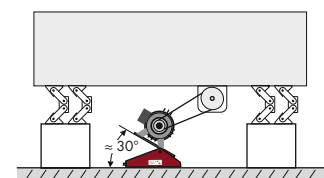


ALONG-SIDE



BOTTOM*

* Extended «Offset» and larger motor base size recommended.



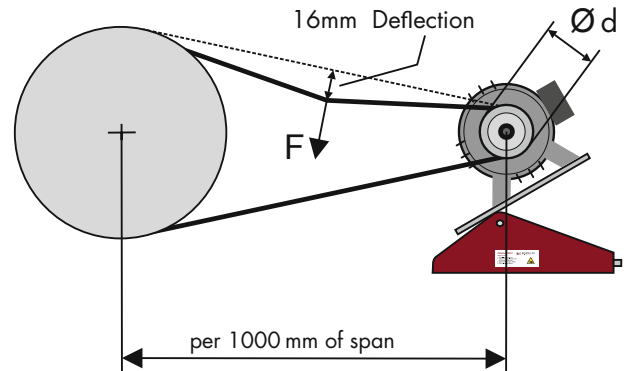
BELT TENSION

IMPORTANT INSTRUCTIONS

The belt should be tensioned with the pretensioning device of the motor base MW 8, according to the test force specified by the belt manufacturer. For models with 2 pretensioning units, ensure synchronous adjustment! The recommended tension forces for the most common V-belt profiles are listed in the chart below. These simplified settings are sufficient in most cases.

EXCEPTION

For screen application the belts should only be tensioned insofar as friction is guaranteed at all times (start-up and operation).



V-belt typ	Width [mm]	Height [mm]	Ø d of smaller pulley [mm]	Initial operation test force F [N]	Operational test force F [N]
XPZ,SPZ	10	8	56 - 71	20	16
			75 - 90	22	18
			95 - 125	25	20
			≥ 125	28	22
XPA, SPA	13	10	80 - 100	28	22
			106 - 140	38	30
			150 - 200	45	36
			≥ 200	50	40
XPB,SPB	16	13	112 - 160	50	40
			170 - 224	62	50
			236 - 355	77	62
			≥ 355	81	65
XPC,SPC	22	18	224 - 250	87	70
			265 - 355	115	92
			≥ 375	144	115
Z	10	6	56 - 100	5 - 7.5	
A	13	8	80 - 140	10 - 15	
B	17	10	125 - 200	20 - 30	
C	22	12	200 - 400	40 - 60	
D	32	19	355 - 600	70 - 105	

Derive the required deflection for intermediate lengths proportionally from 16mm/m.



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