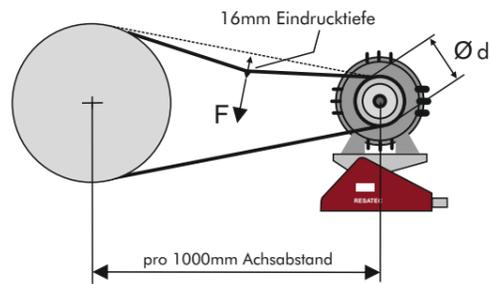


# Belt tension



The drive belts should be pre-tensioned using the central pre-tensioning device of the **MW 10** in accordance with the test force specified by the belt manufacturer.

The guide values for the most common V-belt profiles are listed in the table. These simplified values are sufficient in most cases.

### Exception

In the case of vibrating screens, the belts should only be tensioned that friction is guaranteed at all times.

V-Belt profile	Width [mm]	High [mm]	Ød [mm]	Test force F during start-up [N]	Test force F in operation [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 indentation depth for intermediate lengths proportionally from 16 mm/m. (5/8" per Yard)

## RESATEC Motor base MW 10



self-adjusting  
belt-protecting  
maintenance-free  
energy-saving

MW 10-450  
MW 10-550  
MW 10-700

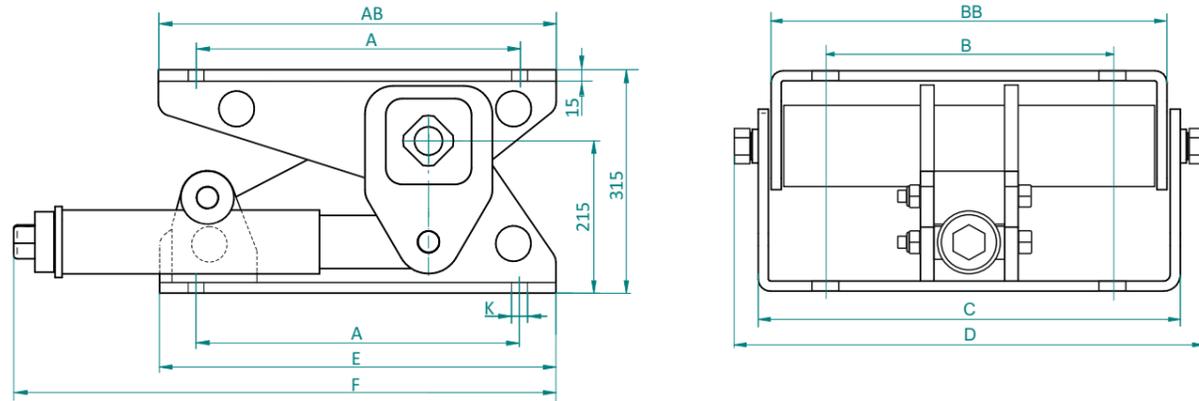
The **MW 10** is the motor base for belt drives with motors from 37 kW to 200 kW output. Depending on the specifications of the drive system, the motor base can be steplessly adjusted via a single, centrally located and maintenance-free pretensioning unit equipped with axial ball bearings. The mounting holes of the motor and base plate are identical and suitable for all motor housing sizes. (IEC 250S - 315M / NEMA 404T - 447T)  
This and the compact design allow easy installation even in existing systems with limited space.

The use of the **MW10** motor base guarantees optimum belt tension at all times thanks to its self-regulating function. This means minimal maintenance and maximum efficiency thanks to belt-friendly operation with optimized traction.

### Advantages

The belt replacement time is massively reduced. No need to realign the two drive pulleys when changing the belt! Correct tension means the belt has a much longer service life - fewer interruptions to operation and Protection of the pulleys, bearings and motor axles. Less energy consumption and higher performance thanks to perfectly tensioned drive belts. Maintenance-free.

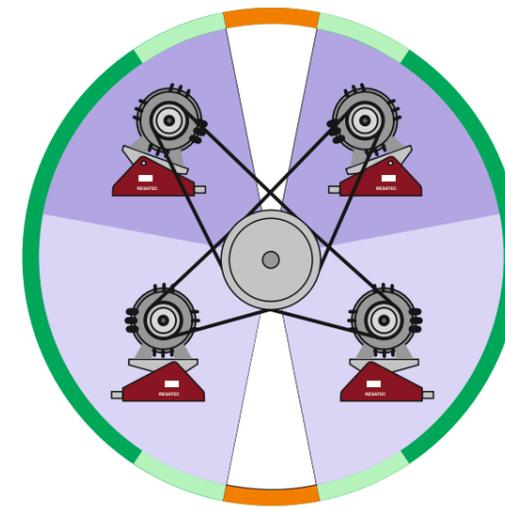
# Motor base MW 10



Article-Nr.	Type	Motor frame size	Motor power		A	B	K	AB	BB	C	D	E	F	Weight [kg]
			IEC 1000min <sup>-1</sup> NEMA 1200 min <sup>-1</sup>	IEC 1500min <sup>-1</sup> NEMA 1800 min <sup>-1</sup>										
586 104 50	MW 10-450	IEC 250M	37 kW	55 kW	406	349	22	510	525	560	624	560	765	135
	MW 10-450	NEMA 404T	60 hp	100 hp	406	311	22	510	525	560	624	560	765	135
	MW 10-450	NEMA 405T	75 hp	125 hp	406	349	22	510	525	560	624	560	765	135
586 105 50	MW 10-550	IEC 280S	45 kW	75 kW	457	368	22	560	590	626	690	560	765	148
	MW 10-550	IEC 280M	55 kW	90 kW	457	419	22	560	590	626	690	560	765	148
	MW 10-550	NEMA 444T	100 hp	125/150 hp	457	368	22	560	590	626	690	560	765	148
	MW 10-550	NEMA 445T	125/150 hp	150/200 hp	457	419	22	560	590	626	690	560	765	148
586 107 00	MW 10-700	IEC 315S	75 kW	110 kW	508	406	26	630	740	776	840	600	800	178
	MW 10-700	IEC 315M	90/110 kW	132-160 kW	508	457	26	630	740	776	840	600	800	178
	MW 10-700	NEMA 447T	150-200 hp	200-250 hp	457	508	26/22	630	740	776	840	600	800	178

All motor plates of MW 10 motor bases have an "offset" of 100 mm.

# Installation area MW 10



**Top drive**  
Motor plate is inclined by 20°

- maximum tensioning range, ideal positioning
- possible positioning
- Clarification necessary

**Bottom drive**  
Motor plate is horizontal

**1 Motor base mounting**  
4 slotted holes with identical hole pattern as the motor plate.

**2 Alignment to Pulley**  
tighten with 4 screws according to the motor size.

**3 Fitting and tensioning the belt**  
1. Swivel the motor in direction of the 2nd pulley using pre-tensioning unit, pull on belt.  
2. Tension with pre-tensioning unit according to the manufacturer's instructions.

**4 Control and start-up**  
Check that all screws are securely tightened. Put the system into operation.

## Standard installation of the motor base

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

