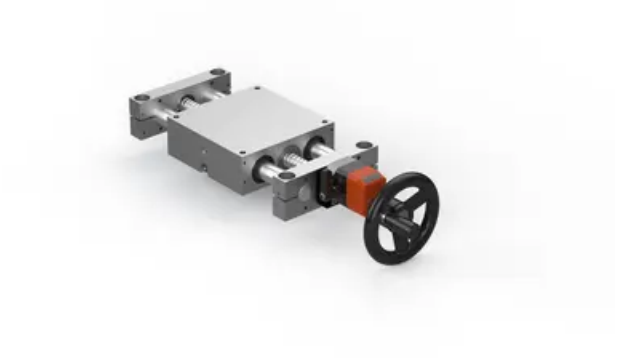
Linear Unit QME-WIL

With handwheel locking and position indicator.



QME is a ready to mount positioning table guided with linear ball bearings on hardened shafts and driven by ball- or lead screw. QME can be manually driven by handwheel using either ball screw or lead screw. For drive by motor, the ball screw versions are strongly recommended for sustained performance and precision.

Rollco recommend locking device for all hand driven units with ball screw to avoid back driving. Locking device is always included if position indicator is selected.

The position indicator has 4 digits where the three black-background digits represent position in millimetre and the red-backgrounds digit 1/10 of a millimetre.

Customized machining of the drive- and mounting interfaces, higher level of corrosion resistance or low/high temperature versions, please contact Rollco.

Bellow for Linear Unit QME is recommended for all applications where the unit isn’t protected against dust and dirt. The bellow may also work as a pinch protection.

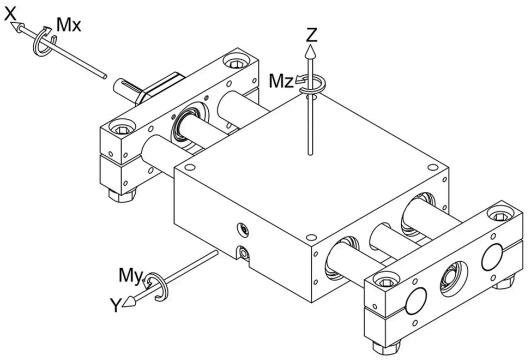
All dimensions in mm.

QME12-WIL: Max. L tot: 1 000 mm
QME20-WIL: Max. L tot: 1 500 mm
QME30-WIL: Max. L tot: 2 000 mm

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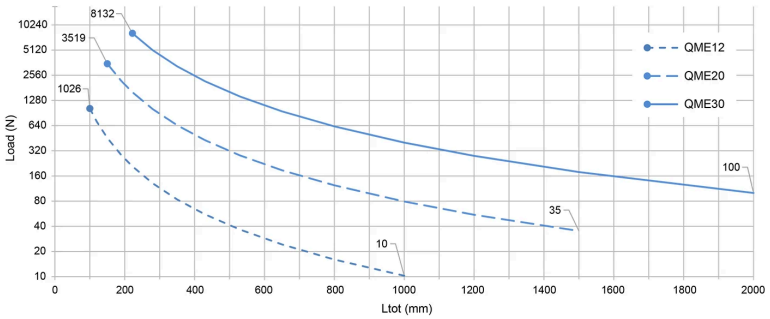


General Data

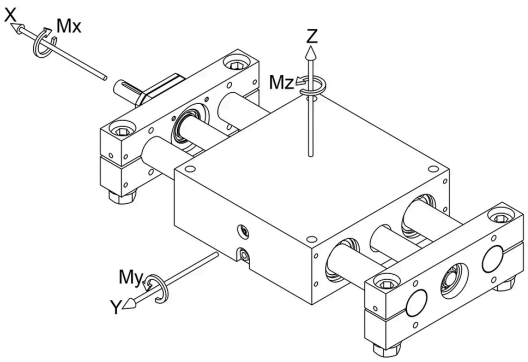


Permissible load Fz and Fy

Permissible load based on a shaft deflection of 1/1000 of Ltot. For long units, actual load may need to be reduced to achive a deflection acceptable for the application.

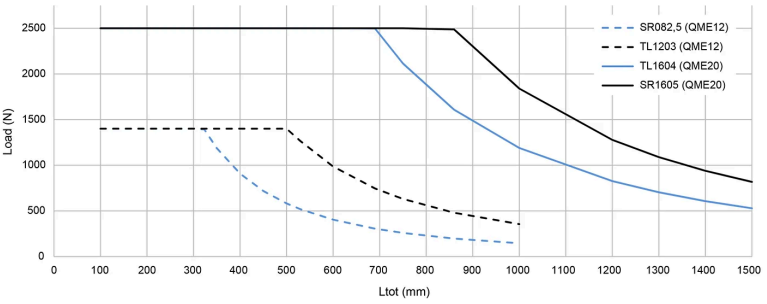


All capacity values are based on the individual ratings of the linear ball bearings used inside the QME and are without any safety factor. The usable load level depends on required service life and the system configuration. The safety factor depends on the application and its requested safety. We recommend a minimum dynamic safety factor 5.



Permissible load Fx

Permissible load is based on the buckling limit of the drive screw.
For QME30, buckling will never occur due to the use of oversized drive screws.



All capacity values are based on the individual ratings of the linear ball bearings used inside the QME and are without any safety factor. The usable load level depends on required service life and the system configuration. The safety factor depends on the application and its requested safety. We recommend a minimum dynamic safety factor 5.

Designation	Screw Type	Static Load Capacity Fz (N)	Dynamic Load Capacity Fz (N)	Static Load Capacity Fy (N)	Dynamic Load Capacity Fy (N)
QME12-WIL	SR082,5, TR1203, TL1203	3160	2080	3160	2080
QME20-WIL	SR1605, TR1604,TL1604	5600	3520	5600	3520

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Designation	Screw Type	Static Load Capacity Fz (N)	Dynamic Load Capacity Fz (N)	Static Load Capacity Fy (N)	Dynamic Load Capacity Fy (N)
QME30-WIL	SR3205, SL3205, SR3210, SR3220, TR3006	11200	6400	11200	6400

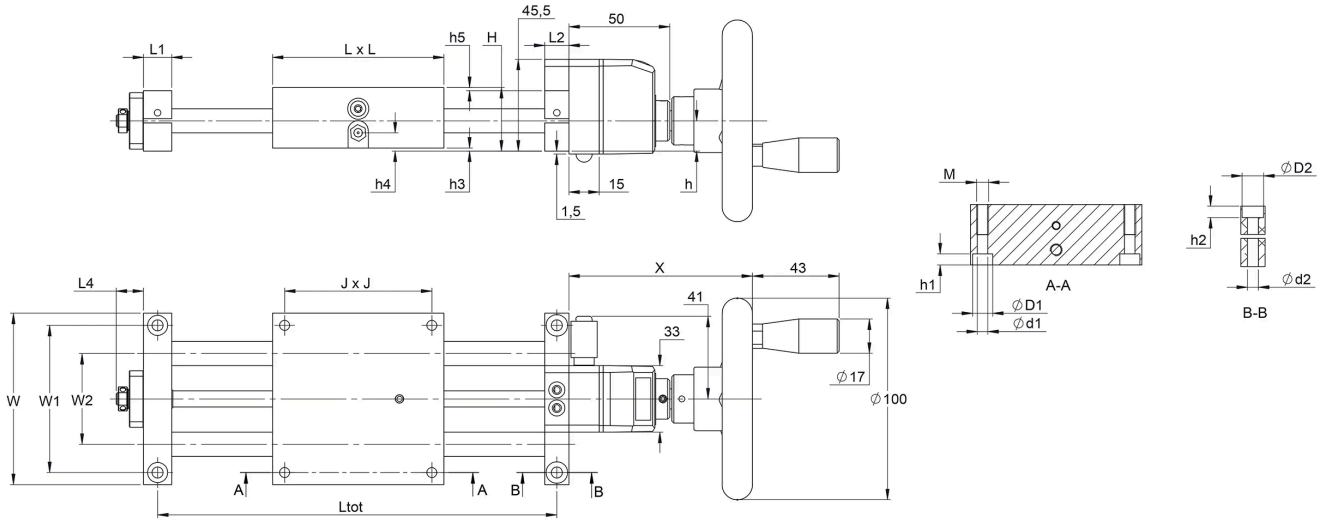
Designation	Static Load Capacity Mx (Nm)	Dynamic Load Capacity Mx (Nm)	Static Load Capacity My (Nm)	Dynamic Load Capacity My (Nm)	Static Load Capacity Mz (Nm)	Dynamic Load Capacity Mz (Nm)
QME12-WIL	71	47	74	49	74	49
QME20-WIL	202	127	216	136	216	136
QME30-WIL	728	416	678	387	678	387

Designation	Dynamic Capacity Ca (N)	Permissible Fx (N)
QME12-WIL	2030 (n/a for TR)	1400
QME20-WIL	7100 (n/a for TR)	2500
QME30-WIL	9500 (n/a for TR)	3200

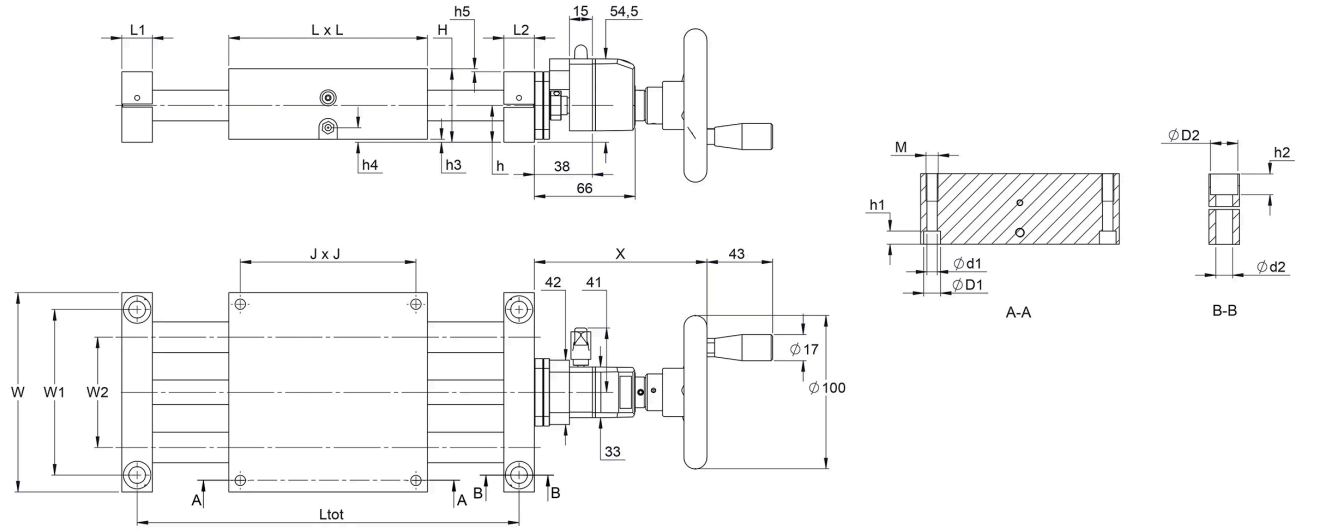
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Dimensions

QME12-WIL

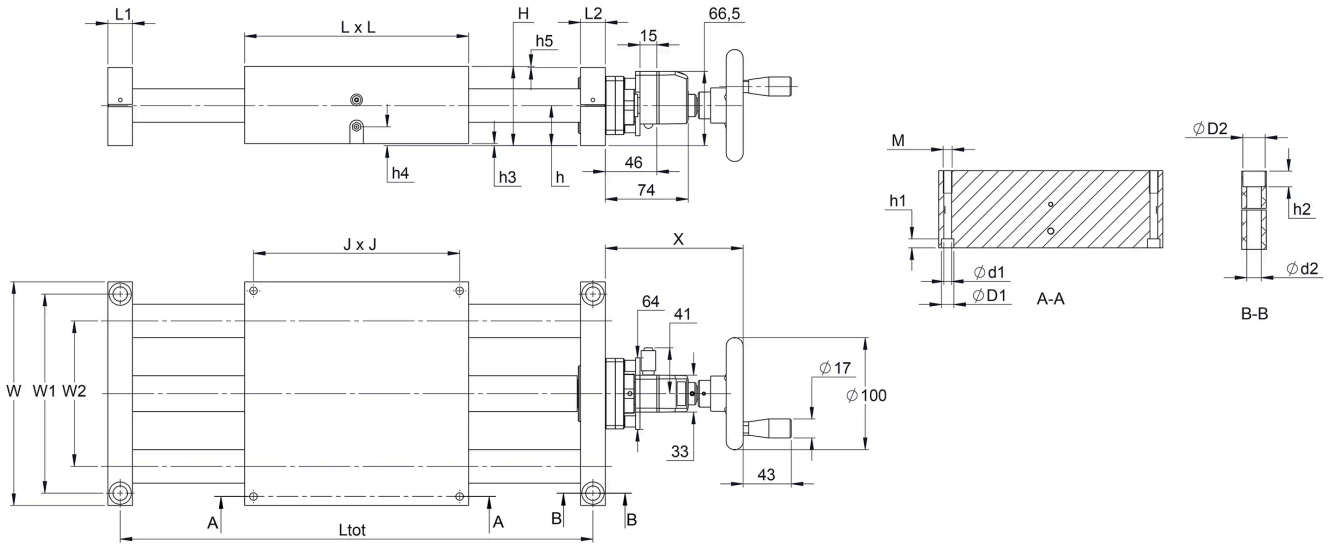


QME20-WIL

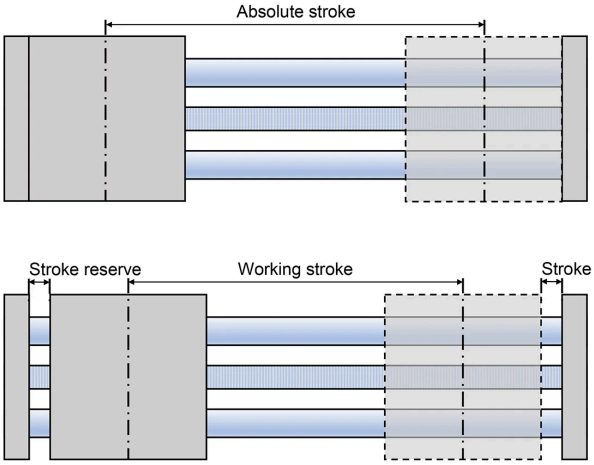


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QME30-WIL



Stroke definition



Working stroke: Is the working stroke of the application.
Absolute stroke: Is defined as Working stroke + Stroke reserve.
Stroke reserve: Is a safety distance to the mechanical end positions.

	Max. Ltot	Max. absolute stroke	
		no bellow	with bellow
QME12	1 000 mm	902 mm	693 mm
QME20	1 500 mm	1 350 mm	1 084 mm
QME30	2 000 mm	1 778 mm	1 493 mm

Designation	Ltot	Bellow Ltot	D1	d1	D2	d2	H	h	h1
QME12-WIL	Absolute stroke +98	Absolute stroke *1.28+113	10	5.2	10	5.5	31.5	15	5.5
QME20-WIL	Absolute stroke +150	Absolute stroke *1.23+166	11	6.8	18	11	48	24	8
QME30-WIL	Absolute stroke +222	Absolute stroke *1.18+238	11	6.8	20	13	71	36	8

Designation	h2	h3	h4	h5	J	L	L1	L2	L4	M
QME12-WIL	5.7	1.5	7.5	1.5	73	85	12	14	13.5	M6 x 15
QME20-WIL	13.5	2	7.5	2	115	130	20	20	-	M8 x 18
QME30-WIL	14	2	15	1	184	200	22	22	-	M8 x 20

Designation	W	W1	W2	X
QME12-WIL	85	73	45	91
QME20-WIL	130	108	72	113.5
QME30-WIL	200	178	130	123

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Weight

Designation	Zero stroke (kg)	Moving part (kg)	+/100 mm stroke (kg)	Remark
QME12-WIL	1.02 / 1.04 with bellows	0.55 / 0.57 with bellows	0.22 / 0.28 with bellows	Masses may deviate +/- 5% depending on screw type and other options.
QME20-WIL	3.52 / 3.56 with bellows	1.76 / 1.80 with bellows	0.65 / 0.80 with bellows	Masses may deviate +/- 5% depending on screw type and other options.
QME30-WIL	12.3 / 12.4 with bellows	5.77 / 5.91 with bellows	1.73 / 2.04 with bellows	Masses may deviate +/- 5% depending on screw type and other options.

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