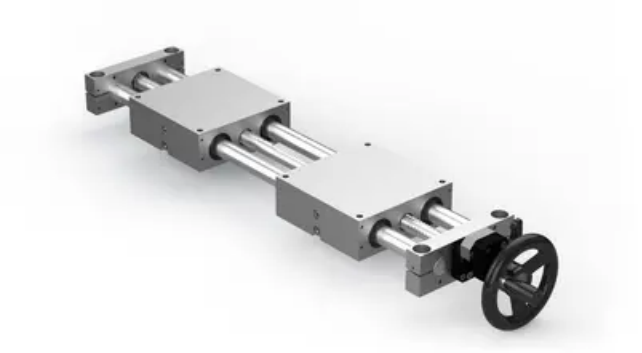
Linear Unit QME-WL – Right+Left Drive



With handwheel locking.

QME with right + left drive 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.

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

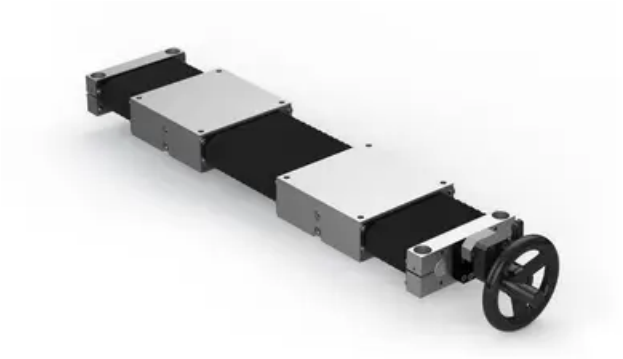
Note that “stroke” for a R+L unit refers to the stroke of each individual slider.

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.

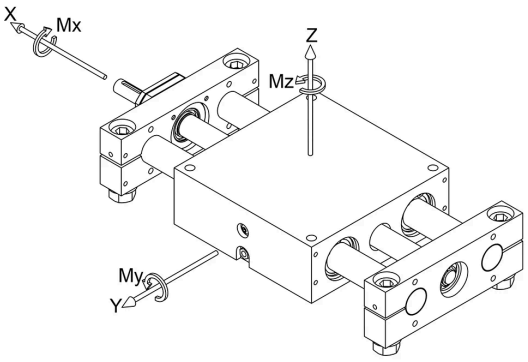
All dimensions in mm.

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

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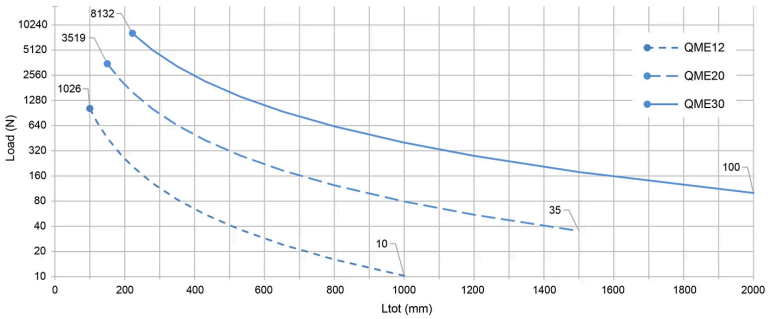


General Data



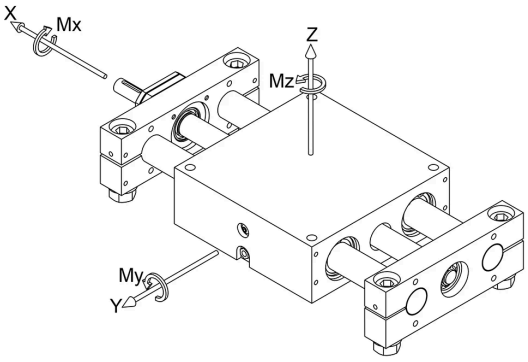
Permissible load Fz and Fy

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.
Please note that the graph below refers to an entire unit and not per slider.



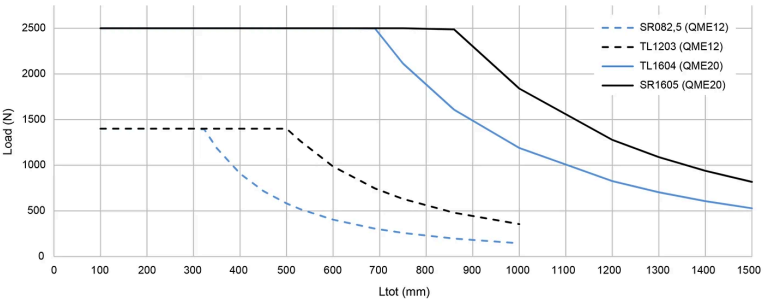
All capacity values are based on the individual ratings of the linear ball bearings used inside the QME and are without any safety factor. The usable load level depends on required service life and the system configuration. The safety factor depends on the application and its requested safety. We recommend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

Note! The values in the table below for a Right+Left Unit are given per slider.



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.

Note! The values in the table below for a Right+Left Unit are given per slider.

Designation	Screw Type	Static Load Capacity Fz (N)	Dynamic Load Capacity Fz (N)	Static Load Capacity Fy (N)	Dynamic Load Capacity Fy (N)
QME12-2xStroke-WL	TR/TL1203	3160	2080	3160	2080
QME20-2xStroke-WL	TR/TL1604	5600	3520	5600	3520
QME30-2xStroke-WL	SR/SL3205	11200	6400	11200	6400

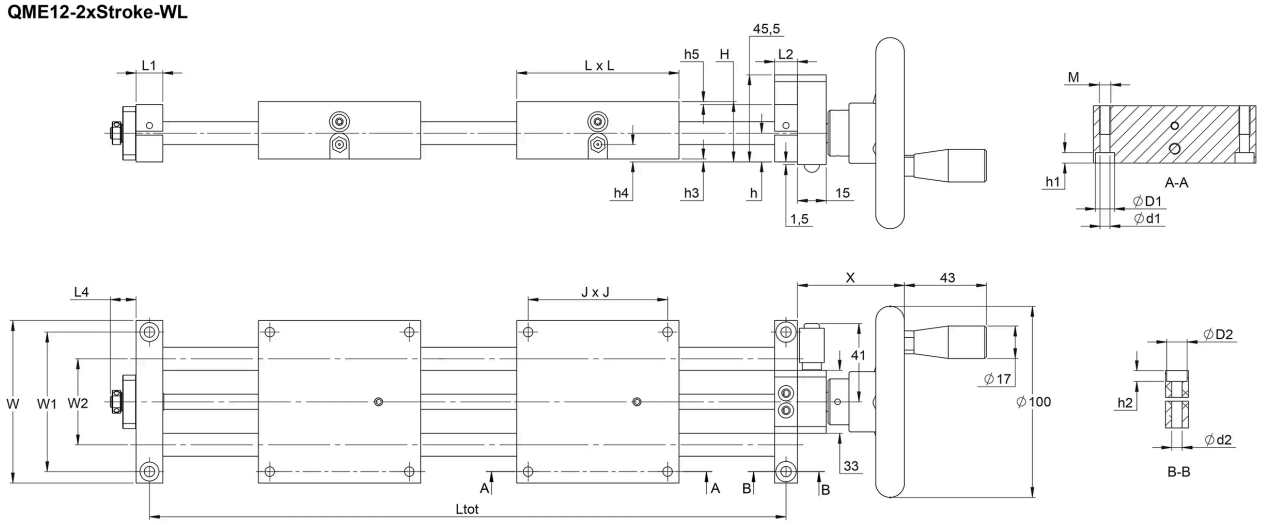
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Designation	Static Load Capacity Mx (Nm)	Dynamic Load Capacity Mx (Nm)	Static Load Capacity My (Nm)	Dynamic Load Capacity My (Nm)	Static Load Capacity Mz (Nm)	Dynamic Load Capacity Mz (Nm)
QME12-2xStroke-WL	71	47	74	49	74	49
QME20-2xStroke-WL	202	127	216	136	216	136
QME30-2xStroke-WL	728	416	678	387	678	387

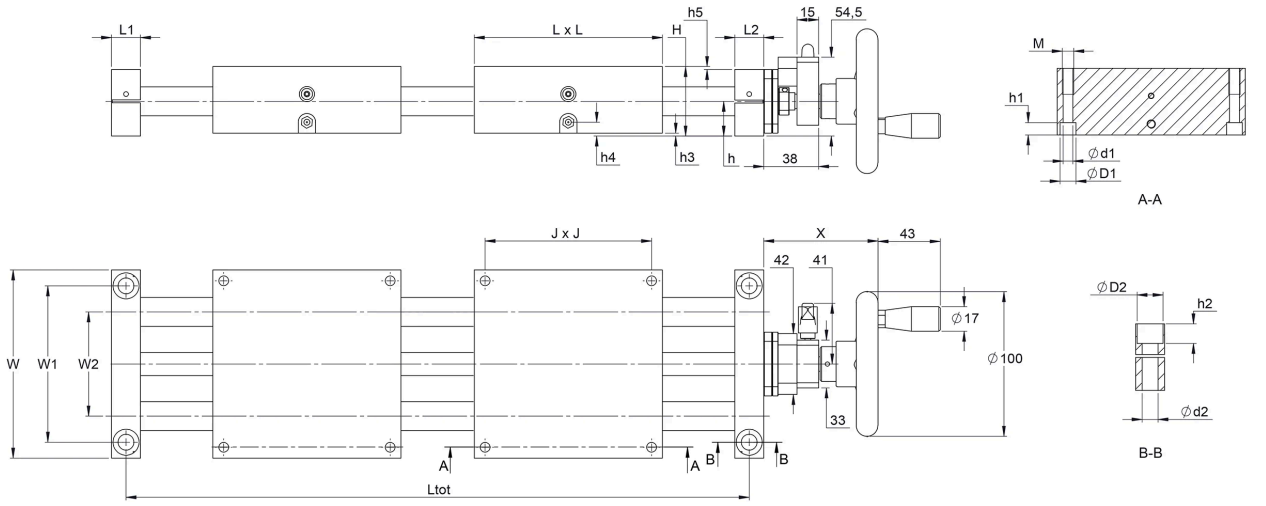
Designation	Dynamic Capacity Ca (N)	Permissible Fx (N)
QME12-2xStroke-WL	2030 (n/a for TR)	1400
QME20-2xStroke-WL	7100 (n/a for TR)	2500
QME30-2xStroke-WL	9500 (n/a for TR)	3200

Dimensions

QME12-2xStroke-WL

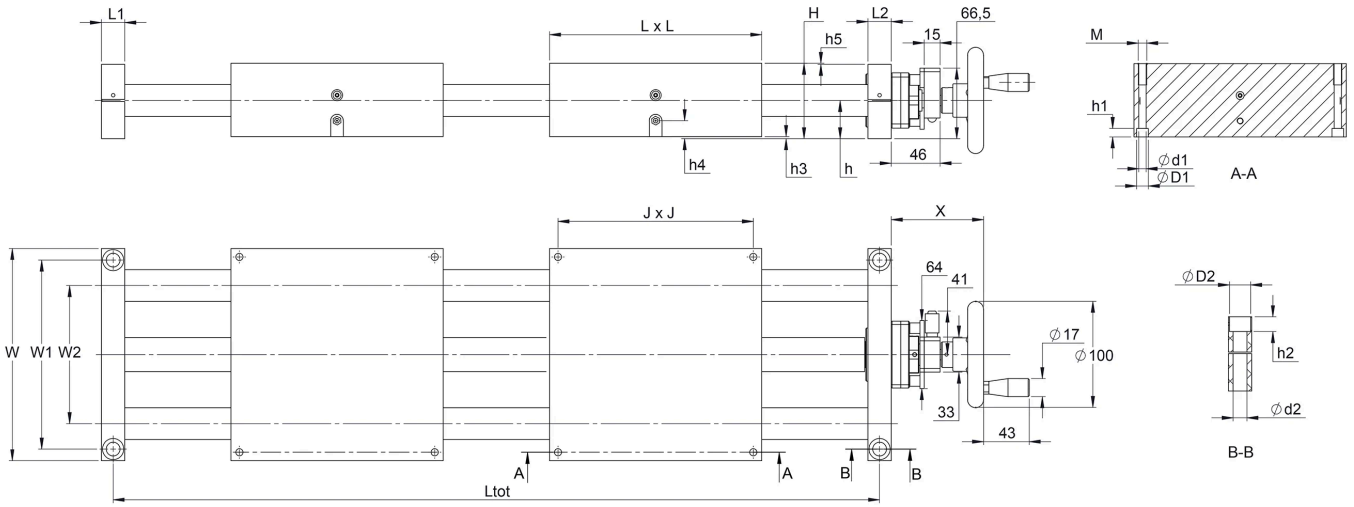


QME20-2xStroke-WL

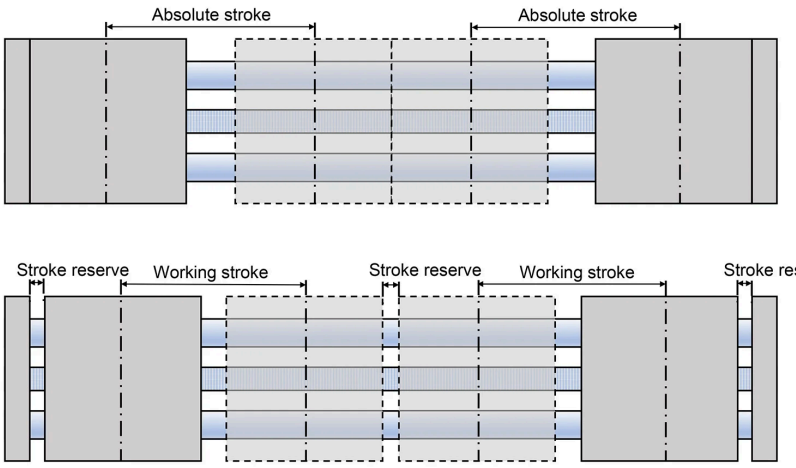


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QME30-2xStroke-WL



Stroke definition right/left



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
QME12-2xStroke	1 000 mm	409 mm	310 mm
QME20-2xStroke	1 500 mm	610 mm	486 mm
QME30-2xStroke	2 000 mm	789 mm	659 mm

Designation	Ltot	Bellow Ltot	D1	d1	D2	d2	H	h	h1
QME12-2xStroke-WL	Absolute stroke *2+183	Absolute stroke *2.56+206	10	5.2	10	5.5	31.5	15	5.5
QME20-2xStroke-WL	Absolute stroke *2+280	Absolute stroke *2.46+303	11	6.8	18	11	48	24	8
QME30-2xStroke-WL	Absolute stroke *2+422	Absolute stroke *2.36+445	11	6.8	20	13	71	36	8

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

Designation	W	W1	W2	X
QME12-2xStroke-WL	85	73	45	56
QME20-2xStroke-WL	130	108	72	79.5
QME30-2xStroke-WL	200	178	130	87

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Weight

Designation	Zero stroke (kg)	Moving part (kg)	+/100 mm stroke (kg)	Remark
QME12-2xStroke-WL	1.72 / 1.76 with bellows	0.55 / 0.57 with bellows	0.43 / 0.55 with bellows	Masses may deviate +/- 5% depending on screw type and other options.
QME20-2xStroke-WL	5.92 / 6.00 with bellows	1.76 / 1.80 with bellows	1.29 / 1.59 with bellows	Masses may deviate +/- 5% depending on screw type and other options.
QME30-2xStroke-WL	20.2 / 20.5 with bellows	5.77 / 5.91 with bellows	3.46 / 4.08 with bellows	Masses may deviate +/- 5% depending on screw type and other options.

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