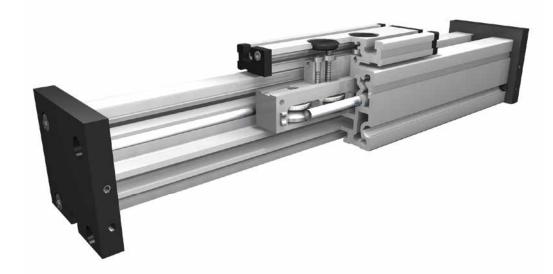
100

70000

## Positioning system QLR 60, 80, 100

#### Roller guide



#### Function:

This unit consists of a square aluminium profile with an integrated roller guide. The carriage, which has internal linear ball bearings that can be adjusted free of play, moves along the guide body. This roller guide can be driven by a pneumatic cylinder or other additional drives or it serves as a load carrying slide unit.

**Fitting position:** As required. Max. length 6.000 mm without joints.

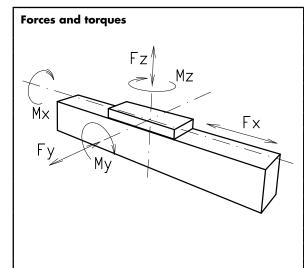
Carriage mounting: By T-slots.

**Unit mounting:** By T-slots and mounting sets. The linear axis can be combined with any T-slot profile.

Carriage support: In the standard version, the carriage runs on 4 rollers which can be adjusted and serviced at a central servicing

Elastic modulus N/mm²

position. For longer carriages the number of rollers can be increased.

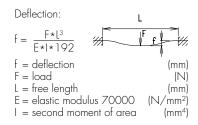


Forces/torques	static dynam		static	dynamic	static	dynamic	
F <sub>x</sub> (N)	-	-	-	-	-	-	
F <sub>v</sub> (N)	600	500	1600	1240	1900	1500	
$F_z(N)$	900	650	1500	1200	2100	1700	
M <sub>x</sub> (Nm)	15	10	50	40	85	60	
M, (Nm)	60	50	100	80	140	110	
M <sub>z</sub> (Nm)	40 30		75 60		110	90	
All forces and torq	ues related	to the follo	wing:				
existing values table values		$\frac{z}{z_{dyn}} + \frac{Mx}{Mx_{dy}}$	+ My	$+ \frac{Mz}{Mz_{dyn}} \le $	1		
Speed							
(m/s) max		4	(	6	7		
Geometrical mome	nts of inerti	a of alumir	ium profile	9			
l <sub>x</sub> mm <sup>4</sup>	4,3	x10 <sup>5</sup>	16,5	5x105	43,0x10 <sup>5</sup>		
l mm <sup>4</sup>	1 0	v1∩5	19.7	7 <sub>v</sub> 1∩5	48 8 105		

For life-time calculation of rollers use our homepage.

70000

80





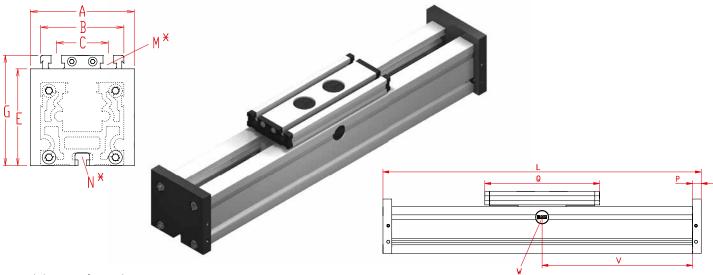




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# Positioning system QLR 60, 80, 100

Dimensions (mm)



\*For slide nuts refer to chapter 2.2 page 2

V = Q + 100 mm W = servicing position

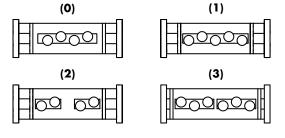
Increasing the carriage length will increase the basic length by the same amount.

Size	Basic length L	A	В	С	E	G	N for	M for	P	Ø	Basic weight	Weight per 100 mm
<b>QLR</b> 60	180	80	60	36	60	<i>7</i> 9	M 5	M 6	12	152	1,45 kg	0,37 kg
<b>QLR</b> 80	240	100	80	50	93	106	M 6	M 8	17	196	4,2 kg	0,82 kg
<b>QLR</b> 100	310	130	100	66	110	129	M 10	M 10	20	260	7,2 kg	1,1 <i>7</i> kg

### Choice of guide body profile:

- (0) Standard (2) corrosion-protected guide rods and screws
  (4) expanded corrosion-protected version (depending on the availability of components)

## O Choice of carriages:



Size	Version 0		Versi	on 1	Versi	on 2	Version 3	
	Q	L	Q	L	Q	L	Q	L
60	152	180	192	220	>232	>260	>232	>260
80	196	240	246	290	>296	>340	>296	>340
100	260	310	320	370	>388	>430	>388	>430

**1500** Basic length + stroke = total length

For additional accessories refer to chapter 2.2 - 3.2

QLR 80 0 0 0 0 0 0 0 0 0 01500

Sample ordering code:
QLR<u>80</u> with standard body profile, standard carriage and 1260 mm stroke







