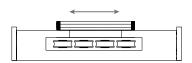
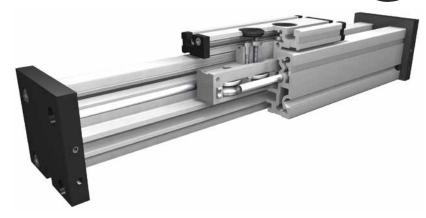
Linear system **QLR 60, 80, 100**



ROLLER GUIDE

- **WITHOUT DRIVE**
- **■→** SUPPORT UNIT
- WITHOUT COVERBAND





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. Construction compatible with QLZ.

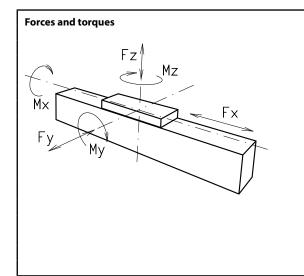
Fitting position: As required. Max. length 6.000 mm without joints.

Carriage mounting:

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 posi-

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



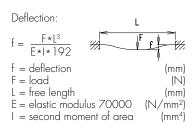
| Size 60 | | 8 | 0 | 10 | 00 | | | |
|--|-------------------------------|-----|----------------|------|--------|---------|--|--|
| Forces/torques | Forces/torques static dynamic | | static dynamic | | static | dynamic | | |
| F _x (N) | - | - | - | - | - | - | | |
| F _v (N) | 600 | 500 | 1600 | 1240 | 1900 | 1500 | | |
| F _z (N) | 900 | 650 | 1500 | 1200 | 2100 | 1700 | | |
| M _x (Nm) | 15 | 10 | 50 | 40 | 85 | 60 | | |
| M _v (Nm) | 60 | 50 | 100 | 80 | 140 | 110 | | |
| M _z (Nm) | 40 | 30 | 75 | 60 | 110 | 90 | | |
| All Committee of the co | | | | | | | | |

All forces and torques related to the following:

existing values $\frac{Fy}{Fy_{dyn}} + \frac{Fz}{Fz_{dyn}} + \frac{Mx}{Mx_{dyn}} + \frac{My}{My_{dyn}} + \frac{Mz}{Mz_{dyn}} \le$

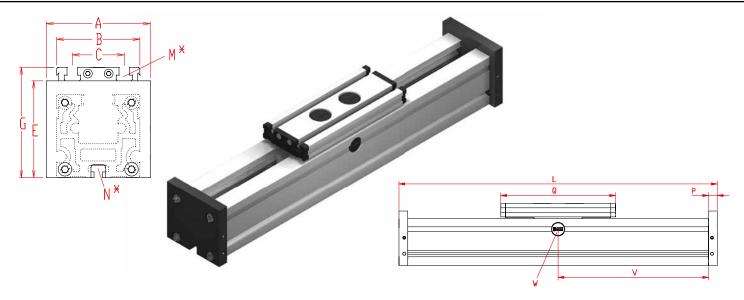
| Speed | | | | | | | | | |
|---|---------------------|----------------------|-----------------------|--|--|--|--|--|--|
| (m/s) max | 4 | 6 | 7 | | | | | | |
| Geometrical moments of inertia of aluminium profile | | | | | | | | | |
| l _x mm⁴ | 4,3x10 ⁵ | 16,5x10 ⁵ | 34,93x10⁵ | | | | | | |
| l _v mm⁴ | 4,8x10 ⁵ | 18,7x10 ⁵ | 45,61x10 ⁵ | | | | | | |
| Elastic modulus N/mm² | 70000 | 70000 | 70000 | | | | | | |

For life-time calculation of rollers use our homepage.





Linear system **QLR 60, 80, 100**



V = Q + 100 mm W = servicing position

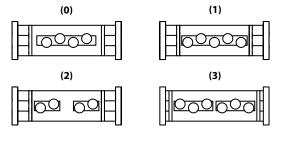
Increasing the carriage length will increase the basic length by the same amount.

| Size | Basic length L | А | В | с | E | G | N for | M for | P | Q | Basic weight | Weight per 100 mm |
|----------------|----------------------|-----|-----|----|-----|-----|----------|----------|----|-----|-----------------|-------------------------|
| QLR 60 | 180 | 80 | 60 | 36 | 60 | 79 | M 5 | M 6 | 12 | 152 | 1,45 kg | 0,37 kg |
| QLR 80 | 240 | 100 | 80 | 50 | 93 | 106 | M 6 | M 8 | 17 | 196 | 4,2 kg | 0,82 kg |
| QLR 100 | 310 | 130 | 100 | 66 | 110 | 129 | M 10 | M 10 | 20 | 260 | 7,2 kg | 1,17 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 | | Version 1 | | Vers | ion 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 | |

 QLR
 80
 0
 0
 0
 0
 0
 0
 0
 1500

Basic length + stroke = total length

Sample ordering code:

QLR80 with standard body profile, standard carriage and 1260 mm stroke

