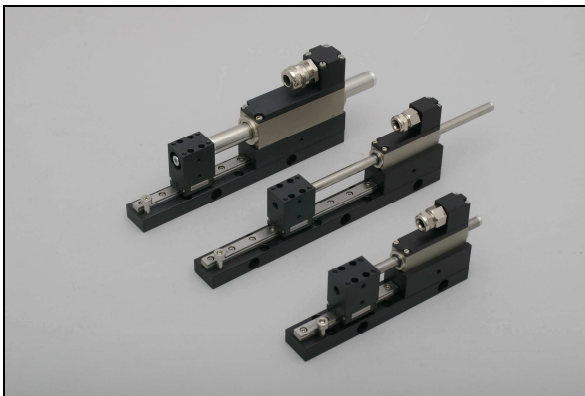


## **QuickDynamic**® Miniature Linear Modules QM01 with Tubular Linear Servo Drives

The **QuickDynamic**® linear modules QM01 are based on linear guides with ball carriages, which serve as a carrying element. This ensures high torsional stiffness, despite the low moving masses. Ball chains in the ball cages are responsible for a high maximum speed, high accelerations, a low noise level, as well as a long operational life.



### Characteristics

- ready-to-use linear modules with integrated **QUICKSHAFT**® linear servo drives
- very low moving mass, high bending & torsional stiffness
- speed up to 5 m/s & acceleration up to 150 m/s<sup>2</sup>
- positioning accuracy +/- 0,05 mm (+/- 0,001 mm optionally)
- modular mechanical interface

### Technical Data **QuickDynamic**® Linear Modules QM01-1247 & QM01-2070

Modul Type	QM01-1247-020	QM01-1247-080	QM01-1247-120	QM01-2070-040	QM01-2070-080	QM01-2070-120
<b>Technical Data</b>						
Linear guide (not available without motor)	QF01-1247-020	QF01-1247-080	QF01-1247-120	QF01-2070-040	QF01-2070-080	QF01-2070-120
built-in motor	LM1247-020	LM1247-080	LM1247-120	LM2070-040	LM2070-080	LM2070-120
max. mech. stroke [mm]	29	95	133	55	97	135
moving mass without slider [g]	33	33	33	37	37	37
max. velocity [m/s]	5					
max. acceleration [m/s <sup>2</sup> ] <sup>1)</sup>	150					
dimensions W x H [mm]	20 x 58	20 x 58	20 x 58	20 x 70	20 x 70	20 x 70
total length [mm]	120	180	215	160	205	240
dimensions of carriage W x H x L [mm]	17 x 22 x 24			17 x 25 x 24		
total weight incl. drive [g]	220	280	300	426	496	566
operating temperature [°C]	-20 bis +125					
protection class	IP20					

<sup>1)</sup> The indicated values are referring to the mechanical operating limits of the guiding system.

## Technical Data **QuickDynamic**® Linear Modules QM01-1247 & QM01-2070

Modul Type	QM01-1247-020	QM01-1247-080	QM01-1247-120	QM01-2070-040	QM01-2070-080	QM01-2070-120
<b>Technical Data</b>						
$F_y$ [N] / $F_z$ [N]	500 / 1.300					
$M_x$ [Nm] / $M_y$ [Nm] / $M_z$ [Nm]	5,0 / 3,1 / 3,7					
milage [km]	> 50.000					
	Displayed performance applies at maintenance intervalls every 5.000 km or every 6 months!  Lubrication: - THK-grease AFA for general applications - Klübersynth UH1 14-151 for FDA applications					

STEP files on demand!

## Minimal Mounting Distances

Modul type	QM1247	QM2070
<b>minimal mounting distances</b>		
motor to motor in parallel configuration C [mm]	25	35
motor to motor in 90°configuration C [mm]	17	30
motor to ferromagnetic material D [mm]	18	20
motor to conductive material D [mm]	6,3	10
motor to non conductive material D [mm]	3,2	6

**QuickDynamic**® linear modules are only available with integrated motor.

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