

# Dynamic module DM3...ZR... XL with toothed belt drive

DM	Toothed belt drive		Axial load rating	Positioning accuracy	Repeating accuracy	Acceleration
	Stroke/R [mm]	Elongation <sup>3)</sup> [mm/m]	F [N]	[μm/mm]	.../1000 mm [mm]	$a_{max}$ [m/s <sup>2</sup> ]
DM3.ZR...	392	0.023	..... <sup>1)</sup>	200/1000 <sup>2)</sup>	± 0.05 <sup>2)</sup>	50.0 <sup>4)</sup>

<sup>1)</sup> Depends on speed and load

<sup>2)</sup> Without considering backlash and load

<sup>3)</sup> Belt elongation/metre [mm/m] per 100 N tensile force

<sup>4)</sup> Maximum possible value; precise value for your specific application to be determined with our technical sales department

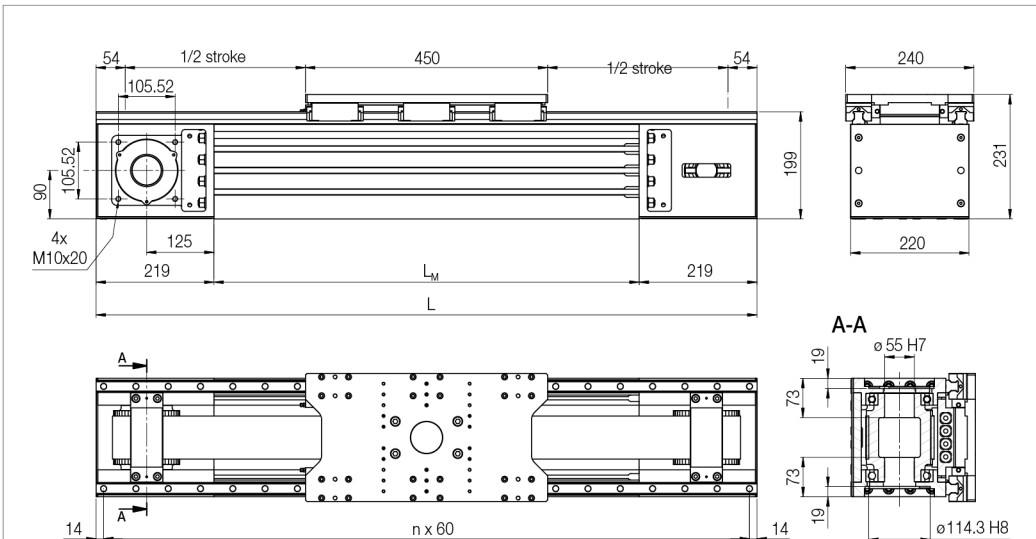
DM	Travel speed		Area moment of inertia		Stroke max. [mm]	Feed and friction force $F_V$ [N]	Mass transported $m_b$ [kg]
	Guide $v_{max}$ [m/min]	Drive $v_{max}$ [m/min]	$I_y$ [cm <sup>4</sup> ]	$I_z$ [cm <sup>4</sup> ]			
DM3.ZR...A/B/C... <sup>8)</sup>	360 <sup>7)</sup>	5 <sup>5)</sup>	5183	8917	XL: 13050 <sup>6)</sup>	80	12.3
DM3.ZR...D/E/F... <sup>8)</sup>	360 <sup>7)</sup>	5 <sup>5)</sup>	5183	8917	XL: 13050 <sup>6)</sup>	100	13.7

<sup>5)</sup> Depends on load, rotation speed, and permissible travel speed of the guides

<sup>6)</sup> Longer strokes on request

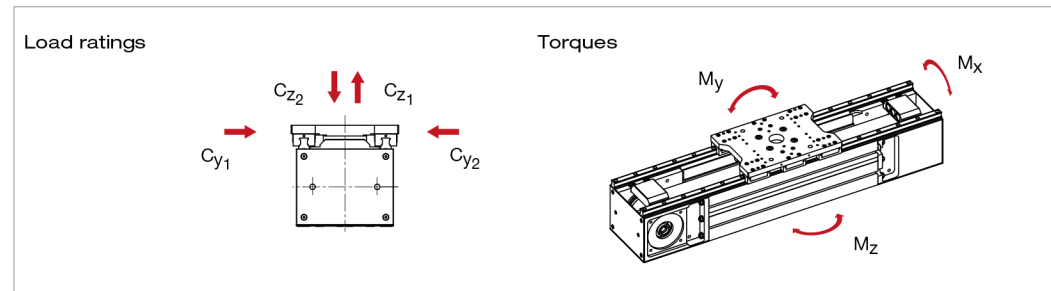
<sup>7)</sup> Higher speeds on request

<sup>8)</sup> ...A/B/C... = 4 runner blocks / ...D/E/F... = 6 runner blocks



Nominal size	Dimensions			
	L [mm]	$L_M$ [mm]	Belt length [mm]	Weight (excluding gearbox) [kg]
DM3.ZR...A/B/C... <sup>1)</sup>	Stroke * + 558	L - 438	2 x Stroke + 1124	55.1 kg + 4.63 kg/100 mm Stroke
DM3.ZR...D/E/F... <sup>1)</sup>	Stroke * + 558	L - 438	2 x Stroke + 1124	56.5 kg + 4.63 kg/100 mm Stroke

\* Possible strokes = 430 mm / 490 mm / 550 mm / ... every 60 mm ... / 5650 mm / 5710 mm / 5770 mm ... XL: 13050 mm



Dynamic module	Maximum permissible forces [kN]				Maximum permissible torques [Nm]					
	static		dynamic		static			dynamic		
	$C_{y0,1,2}$	$C_{z0,1,2}$	$C_{y1,2,50}$	$C_{z1,2,50}$	$M_{x0}$	$M_{y0}$	$M_{z0}$	$M_{x50}$	$M_{y50}$	$M_{z50}$
DM3.ZR...A/B/C... <sup>1)</sup>	207.7	207.7	139.2	139.2	19730	35310	35310	13220	23670	23670
DM3.ZR...D/E/F... <sup>1)</sup>	311.5	311.5	208.8	208.8	29600	35950	35950	19840	24470	24470

<sup>1)</sup> ...A/B/C... = 4 runner blocks / ...D/E/F... = 6 runner blocks

**XL** Please contact LINE TECH for Consulting & Engineering →

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