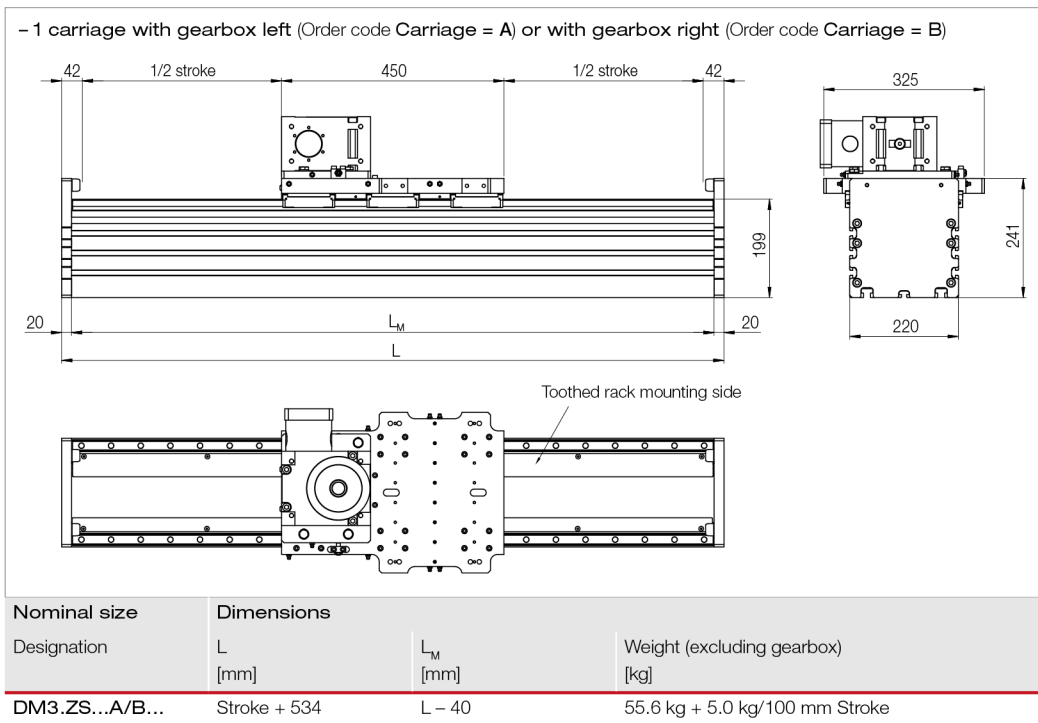


≡ Dynamic module DM3...ZS... XL with rack and pinion drive



DM	Rack and pinion drive	Axial load rating	Positioning accuracy	Repeating accuracy	Acceleration
Size	Stroke/R [mm]	F [N]	[μ/mm]	.../1000 mm [mm]	a _{max} [m/s ²]
DM3.ZS...	160,001 (50.93 x π)	 ¹⁾	37/1000 ²⁾	± 0.02 ²⁾	50 ³⁾

¹⁾ Depends on speed and load

²⁾ Without considering backlash and load

³⁾ 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.	Feed and friction force	Mass/carriage transported (without gearbox)
Type	Guide $v_{\max}$ [m/min]	Drive $v_{\max}$ [m/min]	I_y [cm ⁴]	I_z [cm ⁴]	[mm]	F_v [N]	m_b [kg]
DM3.ZS...	360 ⁶⁾	4) ⁴⁾	4352	8260	XL: 19150 ⁵⁾	60 ⁷⁾	16.0

⁴⁾ Depends on load and gear ratio

⁵⁾ Longer strokes on request

⁶⁾ Higher speeds on request

⁷⁾ Without idling-torque gearbox; this is dependent on the gear ratio

Load ratings

Torques

Dynamic module	Maximum permissible forces [kN]				Maximum permissible torques [Nm]					
Type	static		dynamic		static			dynamic		
	$C_{Y_{0,1,2}}$	$C_{Z_{0,1,2}}$	$C_{Y_{1,2,50}}$	$C_{Z_{1,2,50}}$	M_{X_0}	M_{Y_0}	M_{Z_0}	$M_{X_{50}}$	$M_{Y_{50}}$	$M_{Z_{50}}$
DM3.ZS...	311.5	311.5	208.8	208.8	29600	35950	35950	19840	24470	24470