

≡ Dynamic module DM2...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]	[μm/mm]	.../1000 mm [mm]	a_{max} [m/s ²]
DM2.ZS...	133.332 (42.441 x π)	 ¹⁾	36/1000 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]
DM2.ZS...	360 ⁶⁾	⁴⁾	1780	3184	XL: 19150 ⁵⁾	50 ⁷⁾	7.8

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

- 1 carriage with gearbox left (Order code Carriage = A) or with gearbox right (Order code Carriage = B)

Nominal size	Dimensions		
Designation	L [mm]	L_M [mm]	Weight (excluding gearbox) [kg]
DM2.ZS...A/B...	Stroke + 404	L - 30	21.39 kg + 3.06 kg/100 mm Stroke

Load ratings					Torques					
Dynamic module	Maximum permissible forces [kN]				Maximum permissible torques [Nm]					
Type	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}
DM2.ZS...	192.6	192.6	131.3	131.3	14630	15110	15110	9980	10620	10620