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]
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

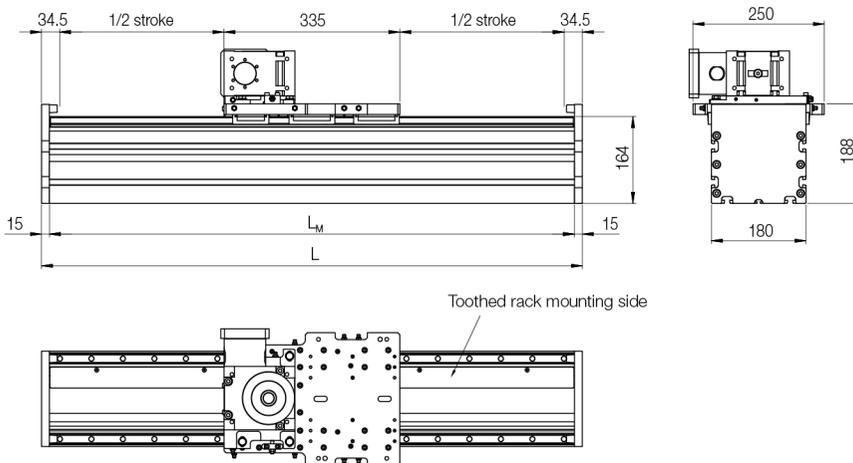| DM	Travel speed		Area moment of inertia		Stroke max.	Feed and friction force	Mass/carriage transported (without gearbox)
	Guide	Drive					
Type	v_{max} [m/min]	v_{max} [m/min]	I_Y [cm^4]	I_Z [cm^4]	[mm]	F_V [N]	m_b [kg]
DM2.ZS...	360 [6]	[4]	1780	3184	XL: 19 150 [5]	50 [7]	7.8

[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**)

Toothed rack mounting side

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}	$M_{X\,50}$	$M_{y\,50}$	$M_{Z\,50}$
DM2.ZS...	192.6	192.6	131.3	131.3	14 630	15 110	15 110	9 980	10 620	10 620

XL Please contact LINE TECH for Consulting & Engineering →

Enquiry (technical/quote)   Download data sheet (PDF)   Download catalogue (PDF)