

HygienDynamic Linear Modules WM01 with Tubular Linear Servo Drives

WM01 linear modules are hygienically designed for wash-down applications. They are based on LinMot® stainless steel linear drives. Optionally, the motos can be equipped with liquid cooling. Polymer plain bearings, which are FDA approved, are used as guide elements. High speed and high accelerations are possible, due to the plain bearings. The hygienic design allows the use in pharmaceutical industries, as well as the food sector.



Characteristics

- linear module system with **LinMot®** linear servo drives
- low moving mass, high bending & torsional stiffness
- cycle speed up to 5 m/s & accelerations up to 150 m/s²
- guide with four polymer plain bearings
- positioning accuracy +/- 0,05 mm
- IP protection class IP69K

Limits **HygienDynamic** WM01 Linear Modules

Dimensions	WM01-37	WM01-48
max. velocity [m/s] ¹⁾	5,0	5,0
max. acceleration [m/s ²] ¹⁾	150	150
max. peak force [N] ²⁾	210	888
max. continous force [N] ²⁾ ³⁾	24	129
max. cont. force with liquid cooling [N] ²⁾	65	360

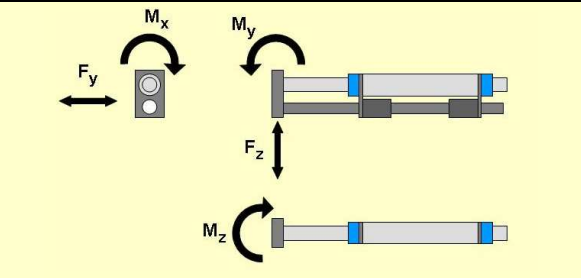
¹⁾ The indicated values are referring to the mechanical operating limits of the guiding system.

²⁾ The indicated values depend on the motor type, the controller and the DC bus voltage.

³⁾ The indications are reference values and strongly dependant on the heat dissipation.

Please feel free to contact us for an optimal kinematic design!

Forces & Torques *HygienDynamic* Linear Modules

Dimensions	WM01-37 (coming soon)	WM01-48
F_y (depending on stroke but not less than) [N]		50
F_z (depending on stroke but not less than) [N]		50
M_x [Nm]		20
M_y [Nm]		20
M_z [Nm]		20
milage depending on application [km]		2.000 - 5.000
		

Available Variations **WM01 Linear Modules**

Attention: The WM01 linear modules consist of a WD01 WashDown linear guide plus linear motor.

Example: WM01-WWxZZZ/YYY = WD01-WWxZZZ/YYY + suitable LinMot® motor

WD01 WashDown linear guide	stroke [mm]	suitable LinMot® motor	slider length [mm]	moving mass without motor [gramm]	weigh WM01 with motor [gramm]	L [mm]
WD01- 37x120/55	55	P01-37x120F/ 75x75-L24-HP-SSC	395			
WD01- 37x120/160	160	P01-37x120F/ 180x180-L24-HP-SSC	500			
WD01- 37x120/260	260	P01-37x120F/ 280x280-L24-HP-SSC	600			
WD01- 48x240/60	60	P01-48x240F/ 80x80-L25-SSC	500	510	6.900	530
WD01- 48x240/180	180	P01-48x240F/ 200x200-L25-SSC	620	660	7.050	650
WD01- 48x240/270	270	P01-48x240F/ 290x290-L25-SSC	710	820	7.220	740
WD01- 48x360/60	60	P01-48x360F/ 80x80-L25-SSC	500			
WD01- 48x360/150	150	P01-48x360F/ 170x170-L25-SSC	620			
WD01- 48x360/240	240	P01-48x360F/ 260x260-L25-SSC	710			

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