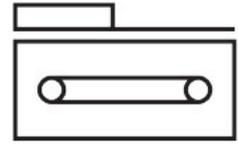
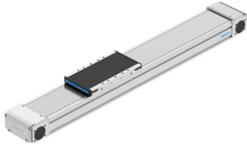


Toothed belt axis ELGD-TB-KF-WD-100-500-0H-L-PU2

Part number: 8192376

FESTO



Data sheet

Feature	Value
Effective diameter of drive pinion	26.74 mm
Working stroke	500 mm
Size	100
Stroke reserve	0 mm
Toothed-belt pitch	3 mm
Mounting position	optional
Guide	Recirculating ball bearing guide
Design	Electromechanical linear axis With toothed belt
Type of motor	Stepper motor Servo motor
Functional principle of measuring system	Incremental
Position detection	Via inductive sensors
Max. acceleration	50 m/s ²
Max. speed	3 m/s
Repetition accuracy	±0.04 mm
Duty cycle	100%
LABS (PWIS) conformity	VDMA24364 zone III
Suitability for the production of Li-ion batteries	Product corresponds to the internal product definition from Festo for use in battery production:Metals with more than 1% by mass of copper, zinc or nickel are excluded from use.The exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils
Degree of protection	IP40
Ambient temperature	0 °C...60 °C
Impact energy in end positions	0.75 mJ
Note on the impact energy in the end positions	At maximum homing speed of 0.01 m/s
2nd moment of area Iy	347100 mm ⁴
2nd moment of area Iz	2268000 mm ⁴
Max. drive torque	3.2 Nm
Max. force Fy	4376 N
Max. force Fz	4286 N
Max. force Fy total axis	3236 N

Feature	Value
Max. force Fz total axis	2250 N
Fy at theoretical life value of 100 km (only guide consideration)	18415 N
Fz at theoretical life value of 100 km (only guide consideration)	18415 N
Max. idle running transfer resistance	29.9 N
Max. moment Mx	130 Nm
Max. moment My	200 Nm
Max. moment Mz	200 Nm
Max. moment Mx total axis	160 Nm
Max. moment My total axis	191 Nm
Max. moment Mz total axis	200 Nm
Mx at theoretical life value of 100 km (only guide consideration)	645 Nm
My at theoretical life value of 100 km (only guide consideration)	720 Nm
Mz at theoretical life value of 100 km (only guide consideration)	720 Nm
Distance between slide surface and guide centre	47 mm
Max. feed force Fx	240 N
Torsional mass moment of inertia It	108900 mm ⁴
Mass moment of inertia JH per metre of stroke	0.2252 kgcm ²
Mass moment of inertia JL per kg of working load	1.7876 kgcm ²
Mass moment of inertia JO	2.9542 kgcm ²
Feed constant	84 mm/U
Reference service life	5000 km
Maintenance interval	Life-time lubrication
Moving mass	1360 g
Product weight	3864 g
Basic weight for 0 mm stroke	3864 g
Additional weight per 10 mm stroke	55 g
Dynamic deflection (moving load)	0.05% of the axis length, max. 0.5 mm
Static deflection (load in standstill)	0.1% of the axis length
Interface code, actuator	L38
Material end cap	Aluminium gravity die-cast, painted
Material profile	Anodised wrought aluminium alloy
Note on materials	RoHS-compliant
Material cover tape	High-alloy stainless steel
Material drive cover	Aluminium gravity die-cast, painted
Material guide slide	Steel
Material guide rail	Steel
Material pulleys	High-alloy stainless steel
Material slide	Wrought aluminium alloy
Material toothed belt	Polyurethane with steel cord