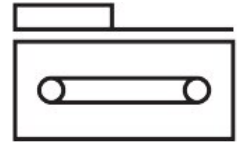
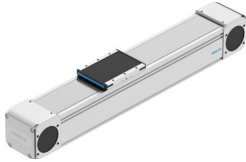


Toothed belt axis ELGD-TB-KF-120-2000-OH-PU2

Part number: 8192373

FESTO



 General operating condition

Data sheet

Feature	Value
Effective diameter of drive pinion	55.7 mm
Working stroke	2000 mm
Size	120
Stroke reserve	0 mm
Toothed-belt pitch	5 mm
Mounting position	Any
Guide	Recirculating ball bearing guide
Design	Electromechanical linear axis With toothed belt
Type of motor	Stepper motor Servo motor
Symbol	00991212
Functional principle of measuring system	Incremental
Position detection	For 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-C1-L
Suitability for the production of Li-ion batteries	Suitable for battery production with reduced Cu/Zn/Ni values (F1a)
Cleanroom suitability, measured according to ISO 14644-14	Class 4 according to ISO 14644-1 (with vacuum extraction) Class 6 according to ISO 14644-1
Storage temperature	-20 °C ... 60 °C
Degree of protection	IP40
Ambient temperature	0 °C ... 60 °C
Impact energy in end positions	0.001 J
Note on the impact energy in the end positions	At maximum homing speed of 0.01 m/s
2nd moment of area I _y	3550000 mm ⁴
2nd moment of area I _z	8985000 mm ⁴
Max. drive torque	36.2 Nm
Max. force F _y	4300 N
Max. force F _z	4300 N
Max. force F _y total axis	2957 N
Max. force F _z total axis	6500 N
F _y at theoretical life value of 100 km (only guide consideration)	17576 N
F _z at theoretical life value of 100 km (only guide consideration)	17576 N

Feature	Value
Max. idle running transfer resistance	71.8 N
Max. moment Mx	170 Nm
Max. moment My	50 Nm
Max. moment Mz	60 Nm
Max. moment Mx total axis	251 Nm
Max. moment My total axis	80 Nm
Max. moment Mz total axis	105 Nm
Mx at theoretical life value of 100 km (only guide consideration)	730 Nm
My at theoretical life value of 100 km (only guide consideration)	162 Nm
Mz at theoretical life value of 100 km (only guide consideration)	162 Nm
Distance between slide surface and guide centre	80 mm
Max. feed force Fx	1300 N
Frictional torque independent of load	2 Nm
Torsional mass moment of inertia It	1433600 mm ⁴
Mass moment of inertia JH per metre of stroke	2.792 kgcm ²
Mass moment of inertia JL per kg of working load	7.7562 kgcm ²
Mass moment of inertia JO	30.2136 kgcm ²
Feed constant	175 mm/U
Reference service life	5000 km
Maintenance interval	Lifetime lubrication
Moving mass	1708 g
Product weight	33625 g
Basic weight for 0 mm stroke	10425 g
Additional weight per 10 mm stroke	116 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	N80
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