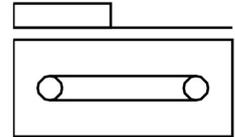
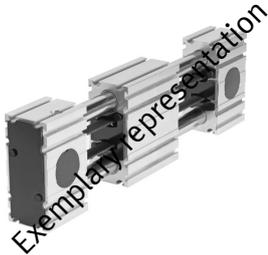


Belt driven linear actuator ELGR-TB-...-45- -

Part number: 560506

FESTO



Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Drive pinion effective diameter	24.83 mm
Working stroke	50 mm ... 1000 mm
Size	45
Toothed belt elongation	0.08 %
Toothed belt pitch	3 mm
Type code	ELGR
Mounting position	Any
Guide	Sliding guide Recirculating ball bearing guide
Structural design	Electromechanical linear axis with toothed belt
Motor type	Stepper motor Servo motor
Symbol	00991212
Max. acceleration	50 m/s ²
Max. speed	1 m/s ... 3 m/s
Repetition accuracy	±0.1 mm
Duty cycle	100%
Degree of protection	IP20
Ambient temperature	-10 °C ... 50 °C
2nd moment of area ly	15700 mm ⁴
2nd moment of area lz	17940 mm ⁴
Max. driving torque	1.24 Nm
Max. force Fy	100 N
Max. force Fz	100 N
Max. no-load resistance to shifting	16.1 N
Max. feed force Fx	100 N
No-load driving torque	0.2 Nm
Mass moment of inertia JH per meter of stroke	0.11 kgcm ²
Mass moment of inertia JL per kg of payload	1.54 kgcm ²
Feed constant	78 mm/U
Reference value, running performance	5000 km
Additional weight per 10 mm stroke	50 g
Basic weight with 0 mm stroke	3230 g
Additional moving mass per 10 mm stroke	0.69 g

Feature	Value
Profile material	Wrought aluminum alloy Anodized
Note on materials	Contains paint-wetting impairment substances RoHS-compliant
Drive cover material	Wrought aluminum alloy Anodized
Belt pulley material	High-alloy stainless steel
Slide material	Wrought aluminum alloy Anodized
Toothed belt clamping component material	Beryllium bronze
Toothed belt material	Polychloroprene with glass cord and nylon coating