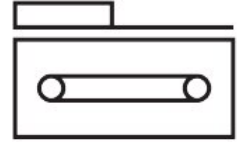
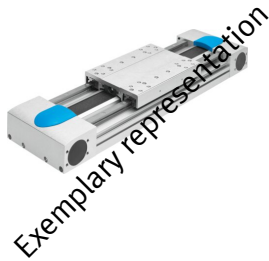


Belt driven linear actuator EGC-HD-220- -TB

Part number: 556825

FESTO



 [General operating condition](#)

Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Drive pinion effective diameter	66.21 mm
Working stroke	50 mm ... 4750 mm
Size	220
Toothed belt elongation	0.29 %
Toothed belt pitch	8 mm
Mounting position	Any
Guide	Recirculating ball bearing guide
Structural design	with toothed belt
Motor type	Stepper motor Servo motor
Symbol	00991212
Measuring principle of linear potentiometer	Incremental
Max. acceleration	50 m/s ²
Max. speed	5 m/s
Duty cycle	100%
LABS (PWIS) conformity	VDMA24364 zone III
Degree of protection	IP40
Ambient temperature	-10 °C ... 60 °C
2nd moment of area Iy	5.58E8 mm ⁴
2nd moment of area Iz	3.51E9 mm ⁴
Max. driving torque	59.58 Nm
Max. force Fy	13000 N
Max. force Fz	13000 N
Max. force Fy total axis	13000 N
Max. force Fz total axis	13000 N
Fy with theoretical service life of 100 km (from a guide perspective only)	47892 N
Fz with theoretical service life of 100 km (from a guide perspective only)	47892 N
Max. no-load resistance to shifting	123.8 N
Max. torque Mx	900 Nm
Max. torque My	1450 Nm
Max. torque Mz	1450 Nm
Max. moment Mx total axis	900 Nm
Max. moment My total axis	1450 Nm
Max. moment Mz total axis	1450 Nm

Feature	Value
Mx with theoretical service life of 100 km (from a guide perspective only)	3315 Nm
My with theoretical service life of 100 km (from a guide perspective only)	5341 Nm
Mz with theoretical service life of 100 km (from a guide perspective only)	5341 Nm
Max. feed force Fx	1800 N
No-load driving torque	4.1 Nm
Torsion moment of inertia It	5.78E8 mm ⁴
Mass moment of inertia JH per meter of stroke	6.269 kgcm ²
Mass moment of inertia JL per kg of payload	10.96 kgcm ²
Mass moment of inertia JO	108.99 kgcm ²
Mass moment of inertia JW for additional slide	80.66 kgcm ²
Feed constant	208 mm/U
Reference service life	5000 km
Slide weight	6317 g
Additional slide weight	5498 g
Basic weight with 0 mm stroke	25510 g
Additional weight per 10 mm stroke	210 g
Profile material	Wrought aluminum alloy, anodized
Note on materials	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 Polyurethane with steel cord and nylon cover