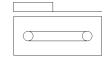
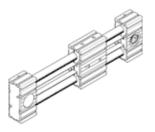
toothed belt axis **ELGR-TB-55-1000-0H** Part number: 8083791







Data sheet

Feature	Value
Effective diameter of drive pinion	28.65 mm
Working stroke	1,000 mm
Size	55
Toothed-belt stretch	0.21 %
Toothed-belt pitch	3 mm
Assembly position	Any
Guide	Recirculating ball bearing guide
Design structure	Electromechanical linear axis
	With toothed belt
Motor type	Stepper motor
	Servomotor
Max. acceleration	50 m/s2
Max. speed	0.35 3 m/s
Repetition accuracy	±0,1 mm
Duty cycle	100 %
Protection class	IP20
Ambient temperature	-10 50 °C
Area moment of inertia 2nd degree ly	38.3E+03 mm4
Area moment of inertia 2nd degree Iz	41.18E+03 mm4
Max. drive torque	5 Nm
Max. force Fy	300 N
Max. force Fz	300 N
Max. idling displacement resistance	27.9 N
Max. feed force Fx	350 N
No-load driving torque	0.4 Nm
Mass moment of inertia JH per metre of stroke	0.19 kgcm2
Mass moment of inertia JL per kg of working load	2.05 kgcm2
Feed constant	90 mm/U
Reference value, running performance	5,000 km
Additional weight per 10 mm stroke	78 g
Product weight	13,240 g
Additional mass factor per 10 mm of stroke	0.92 g
Material of profile	Wrought Aluminium alloy
	Anodised
Materials note	Contains PWIS substances
	Conforms to RoHS
Material drive cover	Wrought Aluminium alloy
	Anodised
Material pulleys	High alloy steel, non-corrosive
Material slide	Wrought Aluminium alloy
	Anodised
Material toothed belt clamping piece	Beryllium bronze
Material toothed belt	polychloroprene with glass cord and nylon coating