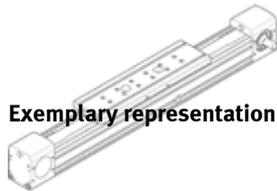


# toothed belt axis DGE-40- -ZR-RF

Part number: 534392  
Product to be discontinued

FESTO

[Linear axis with toothed belt and roller bearing guide](#)  
Type to be discontinued. Available until 2021. See Support Portal for alternative products.



Exemplary representation

## Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Effective diameter of drive pinion	39.79 mm
Working stroke	1 ... 5,000 mm
Size	40
Stroke reserve	100 mm
Toothed-belt stretch	0.11 %
Toothed-belt pitch	5 mm
Assembly position	Any
Guide	Roller guide
Design structure	Electromechanical linear axis With toothed belt
Motor type	Servomotor
Max. speed	10 m/s
Repetition accuracy	±0,1 mm
Protection class	IP40
Ambient temperature	0 ... 60 °C
Area moment of inertia 2nd degree Ix	703E+03 mm <sup>4</sup>
Area moment of inertia 2nd degree Iy	946.3E+03 mm <sup>4</sup>
Max. drive torque	12.1 Nm
Max. force Fy	300 N
Max. force Fz	300 N
Max. idling displacement resistance	50 N
Max. feed force Fx	610 N
No-load driving torque	1 Nm
Mass moment of inertia JH per metre of stroke	0.933 kgcm <sup>2</sup>
Mass moment of inertia JL per kg of working load	3.958 kgcm <sup>2</sup>
Mass moment of inertia, JO	9.89 kgcm <sup>2</sup>
Feed constant	125 mm/U
Lubrication interval, distance dependent	10,000 km
Additional weight per 10 mm stroke	61.42 g
Basic weight for 0 mm stroke	7,754 g
Material of end caps	Wrought Aluminium alloy Anodised
Material of profile	Wrought Aluminium alloy Anodised
Material drive head	Wrought Aluminium alloy Anodised
Material of guide	Steel
Material pulleys	High alloy steel, non-corrosive
Material slide	Wrought Aluminium alloy Anodised
Material toothed belt clamping piece	Stainless steel casting
Material toothed belt	polychloroprene with glass cord and nylon coating