

Spindle Drive

Ball screw

105 N

For combination with
DC-Micromotors
Brushless DC-Servomotors
Stepper Motors

Series BS22-1.5

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Screw length, standard		126,5	mm
Stroke, standard		88	mm
Pitch	P_h	1,5	mm
Mean actual travel deviation e_{0a} :			
– maximum permissible	e_p	5 (According to accuracy class 1)	μm
Tolerance of travel variation	v_{up}	5 (According to accuracy class 1)	μm
Efficiency, max.	η_{max}	89	%
Operating temperature range		-30 ... +80	$^{\circ}\text{C}$
Bearing		duplex ball bearings, preloaded	
Axial load capacity of the ball screw:			
– dynamic	C_{am}	≤ 519	N
– static	C_{oa}	≤ 475	N
Shaft load, max.:			
– radial (50 mm from mounting face)	$F_{rs max}$	≤ 43	N
Screw nut:			
– axial play		≤ 5	μm
Screw nut load, max.:			
– radial	$F_{rn max}$	≤ 23	N
Material			
– screw		stainless steel	
– nut		stainless steel	
– balls		stainless steel	
Direction of rotation		right hand thread	
Recommended values - mathematically independent of each other			
Continuous axial load, max.	$F_m max.$	105	N
Intermittent axial load, max.	$F_p max.$	475	N
Rotational speed, max.		5 000	min^{-1}
Linear speed, max.		125	mm/s

Note: Specifications are valid over the entire stroke according to ISO 3408. A clean and contamination/dust free operating environment is required to meet the datasheet specifications. Do not remove the nut from the screw! No relubrication allowed.

