

Spindle Drive

Ball screw

176 N

For combination with
DC-Micromotors
Brushless DC-Servomotors

Series BS32-2.0

		BS32-2.0	
Screw length, standard		171,5	mm
Stroke, standard		130	mm
Pitch	P_h	2,0	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}	91	%
Operating temperature range		–35 ... +100	$^{\circ}\text{C}$
Bearing		ball bearings, preloaded	
Axial load capacity:			
– dynamic	C_{am}	≤ 890	N
– static	C_{oa}	≤ 887	N
Shaft load, max.:			
– radial (50 mm from mounting face)	$F_{rs max}$	≤ 100	N
Screw nut:			
– axial play		≤ 5	μm
Screw nut load, max.:			
– radial	$F_{rn max}$	≤ 44	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.		$F_m max.$	176 N
Intermittent axial load, max.		$F_p max.$	887 N
Rotational speed, max.			5 000 rpm
Linear speed, max.			166 mm/s

Note: Specifications are valid over the whole entire travel according to ISO 3408.

A clean and contamination/dust free operating environment is required for performance as specified in the datasheet.

Do not remove the nut from the screw! No lubrication allowed.

