

## **Spindle Drive**

Ball screw

## 176 N

For combination with DC-Micromotors Brushless DC-Servomotors **Motion Control Systems** 

## 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 <sub>0a</sub> :				
– maximum permissible	$e_{\rho}$		5 (According to accuracy class 1)	μm
Tolerance of travel variation	$v_{up}$		5 (According to accuracy class 1)	μm
	up.		, ,	· ·
Efficiency, max.	$\eta_{max}$		91	%
•	T TTGA		'	
Operating temperature range		-35 +100		°C
Bearing		ball bearings, preloaded		
Axial load capacity:		5.1		
– dynamic	$C_{am}$	≤ 890		N
- static	$C_{oa}$	_ ≤ 887		N
Shaft load, max.:	ou .			
<ul><li>radial (50 mm from mounting face)</li></ul>	F <sub>rs max</sub>	≤ 100		N
, ,	13 1114			
Screw nut:				
– axial play		≤ 5		μm
Screw nut load, max.:				
– radial	F <sub>rn max</sub>	≤ 44		N
	minax	_		
Material				
– screw		stainless steel		
– nut		stainless steel		
– balls		stainless steel		
Direction of rotation		right hand thread		
		9		
Recommended values - mathematically inc	dependent of ea	ch other		
Continous axial load, max.	$F_{m max}$		176	N
Intermittent axial load, max.	$F_{p max}$		887	N
Potational speed may	· p max.		E 000	min-1

Recommended values - mathematically independent of each other							
Continous axial load, max.	F <sub>m max.</sub>	176	N				
Intermittent axial load, max.	F <sub>p max.</sub>	887	N				
Rotational speed, max.		5 000	0 mir	n <sup>-1</sup>			
Linear speed, max.		166	mn	n/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.

