

# Spindle Drive

## Ball screw

105 N

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

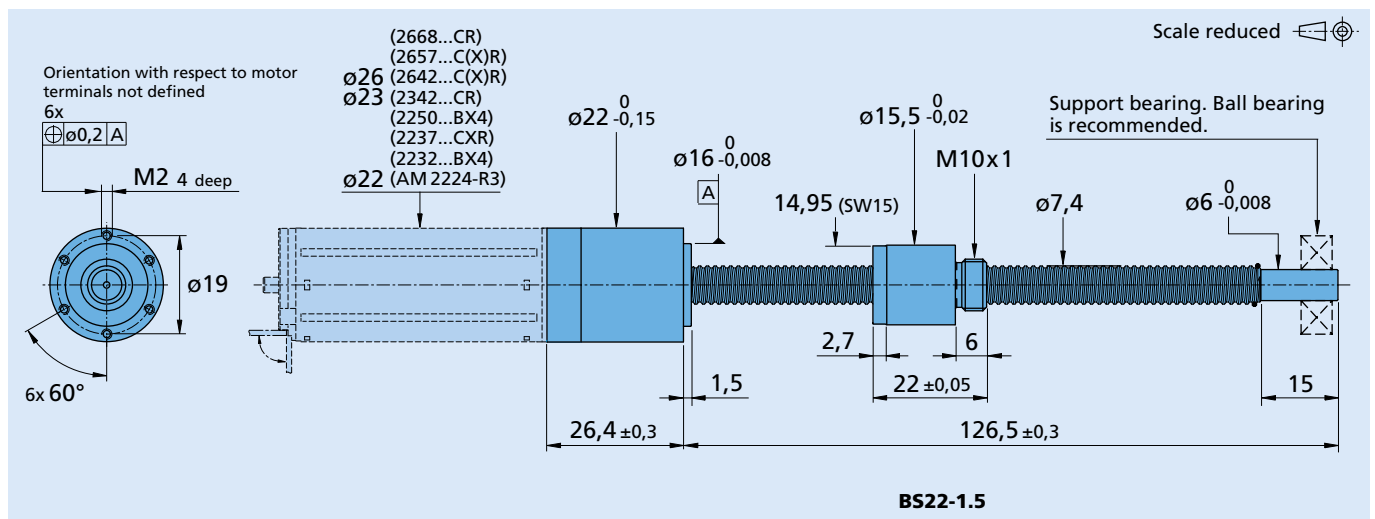
### Series BS22-1.5

		BS22-1.5	
Screw length, standard		126,5	mm
Stroke, standard		94	mm
Pitch	$P_h$	1,5	mm
Mean actual travel deviation $e_{0a}$ :			
– maximum permissible	$e_p$	5 (According to accuracy class 1)	$\mu\text{m}$
Tolerance of travel variation	$v_{up}$	5 (According to accuracy class 1)	$\mu\text{m}$
Efficiency, max.	$\eta_{max}$	89	%
Operating temperature range		-35 ... +100	°C
Bearing		ball bearings, preloaded	
Axial load capacity:			
– dynamic	$C_{am}$	$\leq 519$	N
– static	$C_{oa}$	$\leq 475$	N
Shaft load, max.:			
– radial (50 mm from mounting face)	$F_{rs max}$	$\leq 43$	N
Screw nut:			
– axial play		$\leq 5$	$\mu\text{m}$
Screw nut load, max.:			
– radial	$F_{rn max}$	$\leq 23$	N
Material			
– screw		stainless steel	
– nut		stainless steel	
– balls		stainless steel	
Direction of rotation		right hand thread	
<b>Recommended values - mathematically independent of each other</b>			
Continuous axial load, max.	$F_m max.$	105	N
Intermittent axial load, max.	$F_p max.$	475	N
Rotational speed, max.		5 000	$\text{min}^{-1}$
Linear speed, max.		125	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 relubrication allowed.



# 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		5 (According to accuracy class 1)	µm
Tolerance of travel variation		5 (According to accuracy class 1)	µm
Efficiency, max.	$\eta_{max}$	91	%
Operating temperature range		–35 ... +100	°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	
<b>Recommended values - mathematically independent of each other</b>			
Continous axial load, max.		$F_m max.$	176 N
Intermittent axial load, max.		$F_p max.$	887 N
Rotational speed, max.			5 000 min <sup>-1</sup>
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.

