# Spindle Drive

Ball screw

176 N

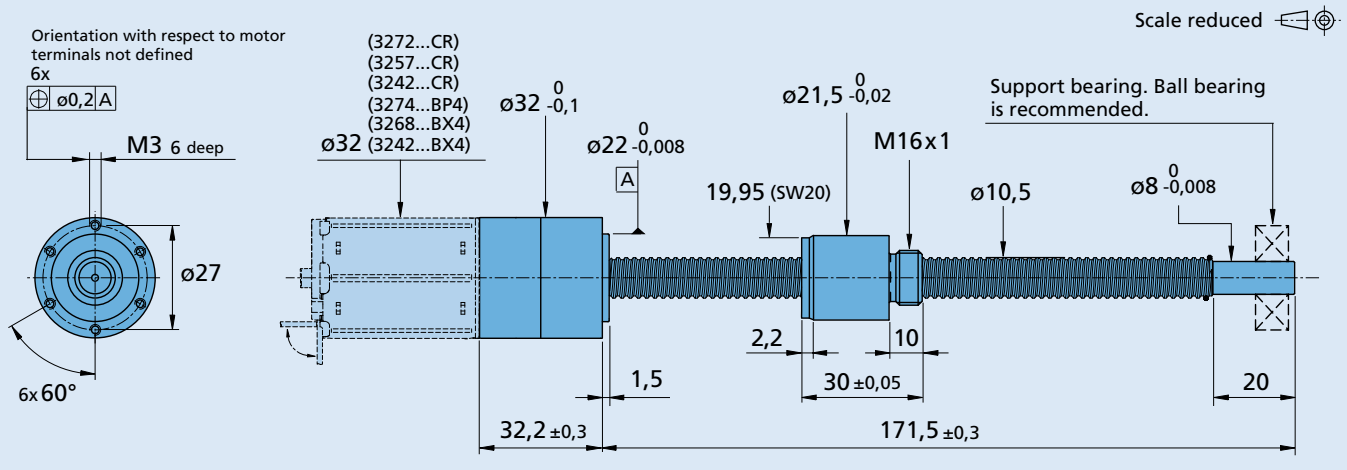
**For combination with**
DC-Micromotors
Brushless DC-Servomotors
Motion Control Systems

## 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 $e_{0a}$: | | | | |
| – 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. | $\eta_{max.}$ | | 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 | | |

| **Recommended values** - mathematically independent of each other | | | | |
|---|---|---|---|---|
| Continous axial load, max. | $F_{m\,max.}$ | | 176 | N |
| Intermittent axial load, max. | $F_{p\,max.}$ | | 887 | N |
| Rotational speed, max. | | | 5 000 | $min^{-1}$ |
| Linear speed, max. | | | 166 | 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.

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