

Application data sheet

General information

Company name
 Contact name
 Telephone number
 Subject / reference
 E-mail address
 Date

Type of request

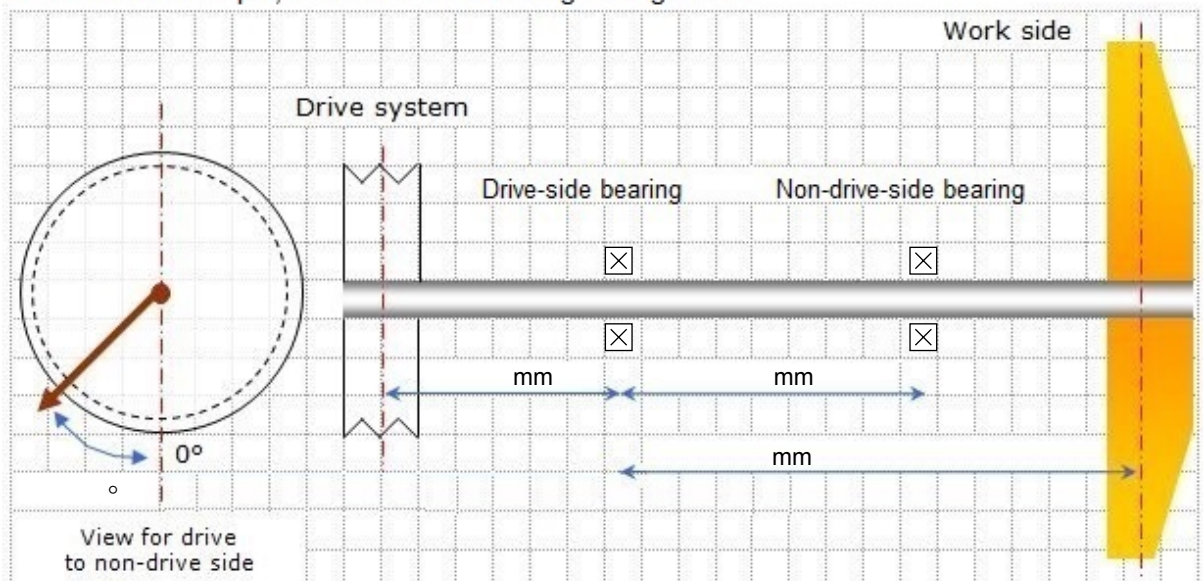
- New development
 Design verification
 Problem solving
 Other

Application

Description

- Continuous
 Not continuous, hours a day
 h/day

Sketch: For example, of an industrial bearing arrangement.



For a different configuration, please add an assembly drawing with corresponding distance of the different components and orientation of the load.

Loads

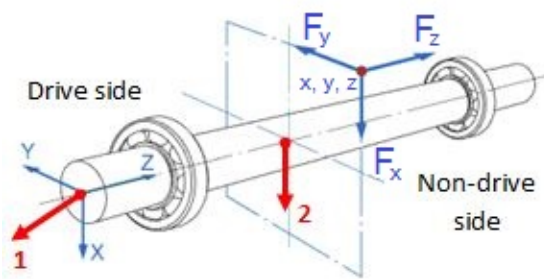
For a single bearing only:

- Radial load kN
- Axial load kN

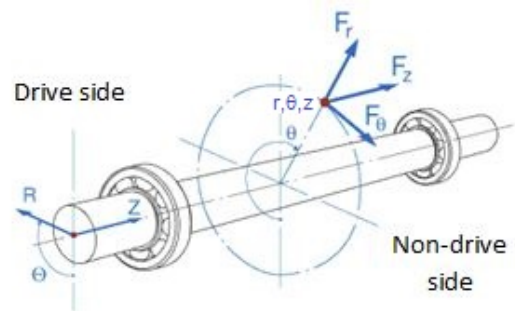
For a shaft and bearings:

Select one of the coordinates system below the loads on the shaft.

- Cartesian coordinates
 Polar coordinates



Gravity in X-direction



Gravity in direction of $\theta = 0^\circ$

Loads*	Position			External loads		
	X/r	Y/ θ	Z	F_x/F_r	F_y/F_θ	F_z
	mm	mm/deg	mm	kN	kN	kN
1						
2						

* Supply information for additional loads in a separate document.

- Peak load kN
- Alternating load *Direction of load changes during operation.*
- Moment load Nm

If load and/or speed change over time, provide details of the load/speed cycle.

Speed

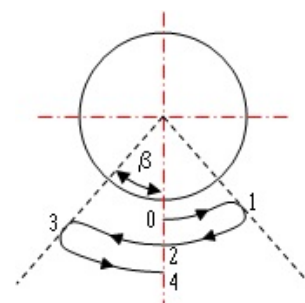
- Nominal speed r/min
- Minimum r/min
- Maximum r/min
- Acceleration m/s²
- Direction

Drive system

Power		kW
<input type="checkbox"/> With coupling		
Type of coupling		
Weight of coupling		N
<input type="checkbox"/> With belt drive		
Type of belt		
Weight of pulley		N
Pitch diameter of pulley		mm
Direction of tension θ		°
<input type="checkbox"/> With gears (spur or helical)		
Nominal pressure angle α_n		°
Helix angle β		°
Module m_n		mm
Gearmesh position/angle		°
Number of teeth pinion z_1		
Number of teeth wheel z_2		
Centre distance pinion/wheel		mm
Gear	<input type="radio"/> driving	<input type="radio"/> driven
Helix hand	<input type="radio"/> none	<input type="radio"/> left-hand <input type="radio"/> right-hand
Rotation	<input type="radio"/> clockwise	<input type="radio"/> counter-clockwise

Oscillating application

Oscillating angle β		°
Frequency f		min ⁻¹
Period t		seconds
Alternating load direction	<input type="checkbox"/>	
Alternating load frequency		min ⁻¹



If load and/or speed changes over time, provide details of the load/speed cycle.

Life requirement		h
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Sealing

Integrated sealing (i.e. sealed bearing)

External sealing

Seal bore diameter mm

Seal outer diameter mm

Seal width mm

Medium to be sealed

Internal

External

Pressure bar

Add any other requirements for seals.

Environment

Ambient temperature °C

Yes	No	Comments
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<input type="radio"/>	<input type="radio"/>	Contaminaton
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<input type="radio"/>	<input type="radio"/>	Humidity/Moisture
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<input type="radio"/>	<input type="radio"/>	External heat source
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<input type="radio"/>	<input type="radio"/>	Cooling
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Other