QUESTIONNAIRE SPINDLE NUT

Date: _____

1. Gerneral data:

Company: _____

Adress: _____

Post code: _____ City: _____ Country: _____

Contact: _____ Department: _____

Phone: _____ E-Mail: _____

2. Application data:

Description of the application: _____

Present material: _____

Demand each year: _____ actual price: _____

Why do you want to use plastic: _____

Which disadvantages should be discontinued: _____

Grade of function impairing: _____

Which advantages should be reached: _____

↓ obligatory demand
↓ wish-demand

3. Information about the spindle drive:

☐ ☐ Metric ISO acme thread according to DIN 103

☐ ☐ Metric ISO fine thread according to DIN 13

☐ ☐ Metric ISO standard thread according to DIN 13

☐ ☐ others: _____

4. Attachment of the spindle nut:

☐ ☐ by a connection

☐ ☐ by screw coupling

☐ ☐ by glueing

☐ by form-fit

☐ by a dowel pin

☐ _____

☐ by force closure

☐ by pressing in

Housing / connecting parts:

Material:

☐ ☐ aluminium

☐ ☐ steel

☐ ☐ plastic

☐ ☐ _____

Dimensions:

☐ diameter and tolerance: _____ mm

☐ length and tolerance _____ mm

Wolf Kunststoff - Gleitlager GmbH
Heisenbergstr. 63 - 65
D-50169 Kerpen - Türnich
NRW - Germany

Tel.: 0 22 37 - 97 49 - 0
Fax: 0 22 37 - 97 49 - 20
E-Mail: info@zedex.de
Internet: www.zedex.de

5. Dimensions of the spindle:

Nominal diameter d: _____ mm Total length of the spindle a: _____ mm

Total ascent P_h: _____ mm Flight land diameter d2: _____ mm

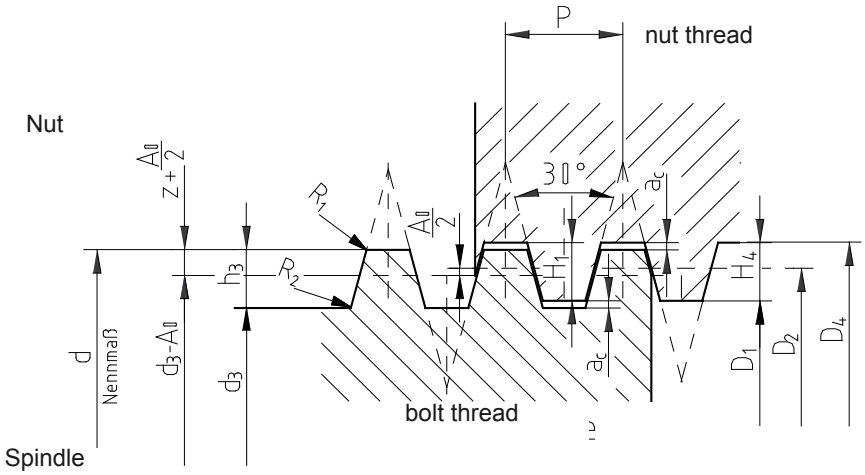
Division with multiple threads: _____ mm Root diameter d3: _____ mm

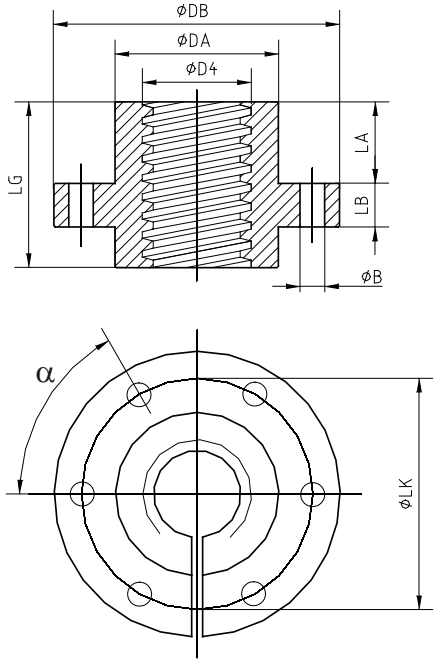
Number of flights of the spindle (P_h/P)n: _____ Spindle material: _____ µm hardness: _____

Manufacturing process of the spindle: ☐ rolled ☐ ground ☐ by lathe ☐ other: _____

6. Dimensions of the spindle nut:

○○	thread outside diameter D4:	_____ mm				
○○	length of the spindle nut LG:	_____ mm				
○○	outside diameter of the spindle nut DA:	_____ mm				
○○	collar thickness b2:	_____ mm				
○○	min. flight land clearance:	☐ nach DIN	☐ kleiner	☐ größer	_____	mm
○○	min. flight clearance:	☐ nach DIN	☐ kleiner	☐ größer	_____	mm
○○	max. flight land clearance:	☐ nach DIN	☐ kleiner	☐ größer	_____	mm
○○	max. flight clearance:	☐ nach DIN	☐ kleiner	☐ größer	_____	mm





7. Surrounding medium:

○○	☐ Outside use	☐ Inside use		
○○	☐ Medium: _____	with a temperatur of _____	°C	
○○	☐ Air with a temperature of _____	°C		
○○	and a relative humidity of _____	%		
○○	☐ Chemical (Name) _____			
○○	Concentration: _____ %	pH-value: _____	Temp: _____	°C

Wolf Kunststoff - Gleitlager GmbH
Heisenbergstr. 63 - 65
D-50169 Kerpen - Türnich
NRW - Germany

Tel.: 0 22 37 - 97 49 - 0
Fax: 0 22 37 - 97 49 - 20
E-Mail: info@zedex.de
Internet: www.zedex.de

8. Medium between connecting parts:

8.1. Lubrication

- ❍❍ ☐ No lubrication - dry operation -
- ❍❍ ☐ Oil lubrication
- ❍❍ ☐ Grease lubrication ☐ Grease lubrication unique
- ❍❍ ☐ Water lubrication:
  - available water volume flow rate: _____ Kg/s
  - existing water flow temperature: _____ °C
  - maximum water outlet temperature: _____ °C
- ❍❍ ☐ other: _____

8.2. Medium between wear part and opposing material

- ❍❍ ☐ abrasive Partikel:
  - ☐ Material: _____
  - ☐ Size: _____
  - ☐ Ammount: _____
- ❍❍ ☐ Other: _____
- ❍❍ ☐ Same as surroounding medium

9. electrical influences:

Demanded electrical influences:

- ❍❍ ☐ Penetration resistance _____ kV/mm
- ❍❍ ☐ Dielectric constant _____
- ❍❍ ☐ Loss factor _____
- ❍❍ ☐ Resistivity _____ Ohm/cm
- ❍❍ ☐ Surface resistance _____ Ohm

Wolf Kunststoff - Gleitlager GmbH
Heisenbergstr. 63 - 65
D-50169 Kerpen - Türnich
NRW - Germany

Tel.: 0 22 37 - 97 49 - 0
Fax: 0 22 37 - 97 49 - 20
E-Mail: info@zedex.de
Internet: www.zedex.de

10. Load:

10.1. Axial force: ☐ static stress ☐ fatigue stress ☐ cyclic stress

Permanent: _____ N maximum: _____ N ☐ impact factor: _____

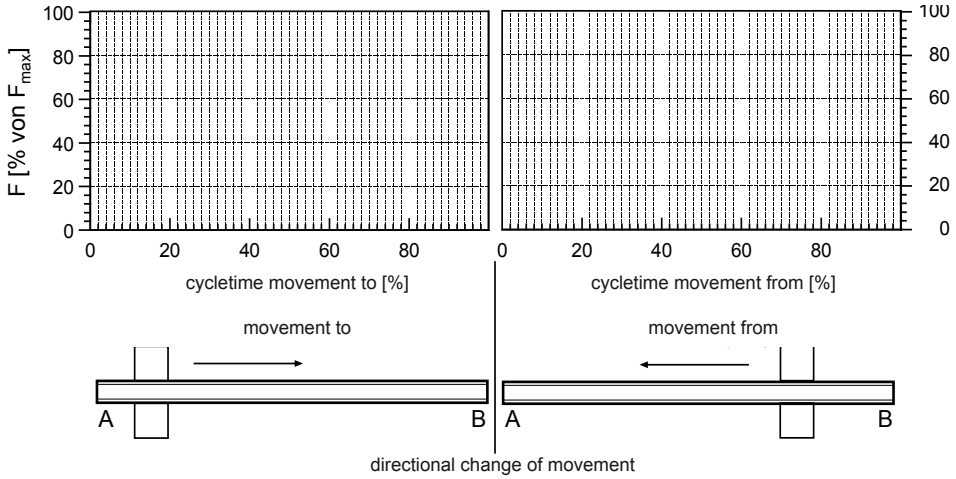
Loading time of permanent axial force: _____ ms/ s / min / h / days / years

Permanence of one cycle: _____ ms/ s / min / h / days / years

Number of load cycles per time unit: _____

How long are the breaks between the load cycles: _____

Please sketch the load fllow of one cycle



11. Movement:

11.1 Rotation of the spindle: if only the stroke is known further on at 11.2

Permanent spindle screw speed: _____ maximum spindle screw speed: _____ min^{-1}

Loading time with perm.spindle screw speed: _____ ms/ s / min / h / days / years

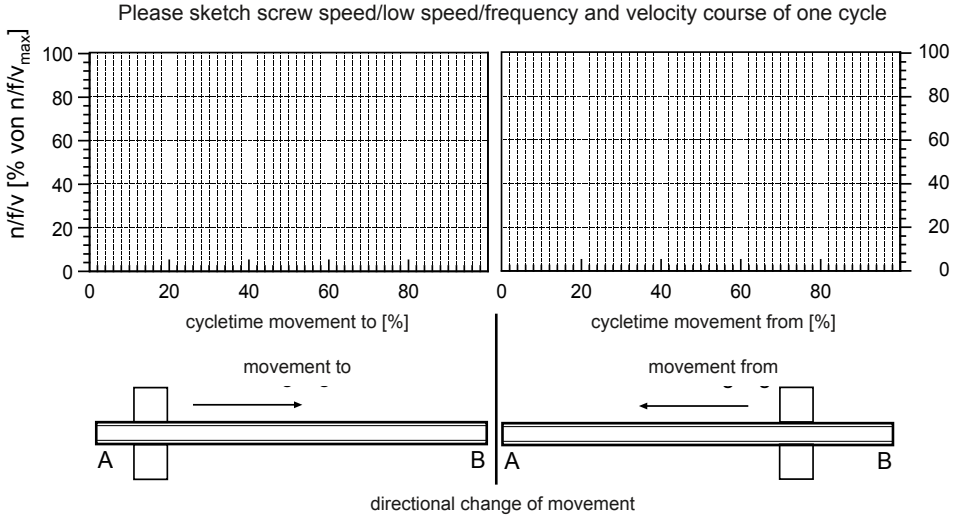
Loading time with max.spindle screw speed: _____ ms/ s / min / h / days / years

Permanence of one cycle: _____

Number of cycles per time unit: _____

How long are the breaks between the load cycles: _____

Please sketch screw speed/low speed/frequency and velocity course of one cycle



Wolf Kunststoff - Gleitlager GmbH
Heisenbergstr. 63 - 65
D-50169 Kerpen - Türnich
NRW - Germany

Tel.: 0 22 37 - 97 49 - 0
Fax: 0 22 37 - 97 49 - 20
E-Mail: info@zedex.de
Internet: www.zedex.de

11.2. Necessary nut stroke:
Permanent stroke speed
Perm. stroke:_____ mm number of strokes per time unit: _____
Maximum stroke speed
Max. stroke:_____ mm number of strokes per time unit: _____
Loading time of permanent stroke speed: _____ ms/ s / min / h / days / years
Loading time of maximum stroke speed: _____ ms/ s / min / h / days / years
Permanence of one stroke: _____
How long are the breaks between the strokes: _____

12. Ambient temperature:

☐☐ ☐ sustained temperature: _____ °C
☐☐ ☐ maximum temperature: _____ °C
How often per time unit does the maximum temperature occur: _____
How long does the maximum temperature occur: _____
What medium transfers the temperature: _____

Which movement and load occurs simultaneous with the heat exposure:

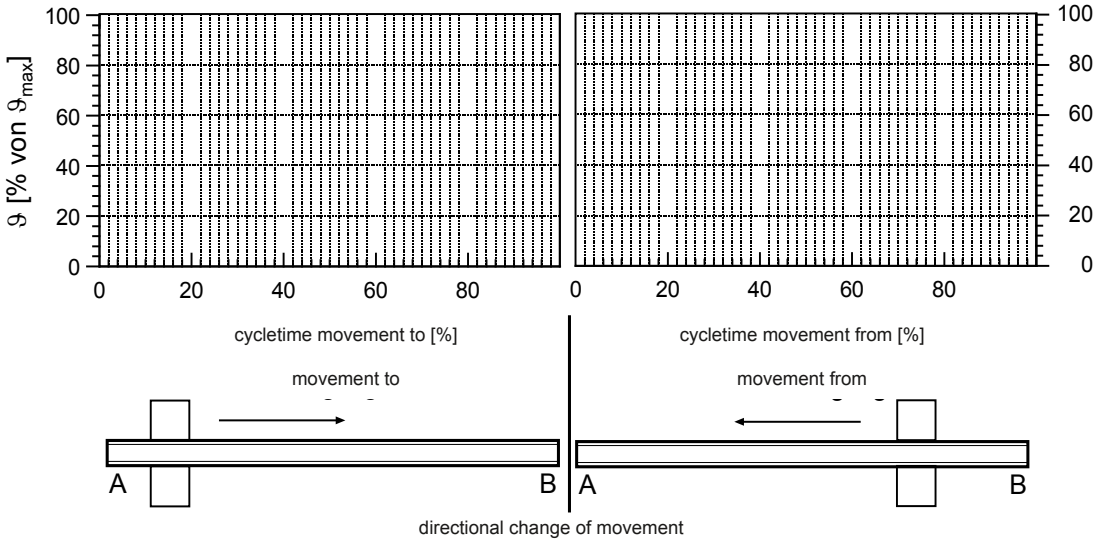
Axial load:

☐ none
☐ permanent as at 10.1.
☐ maximum as at 10.1.
☐ other: _____ N

Movement:

☐ Rotation
☐ none
☐ permanent as at 11.1.
☐ maximum as at 11.1.
☐ other: _____ N

Please sketch the temperature curve of one cycle



Wolf Kunststoff - Gleitlager GmbH
Heisenbergstr. 63 - 65
D-50169 Kerpen - Türnich
NRW - Germany

Tel.: 0 22 37 - 97 49 - 0
Fax: 0 22 37 - 97 49 - 20
E-Mail: info@zedex.de
Internet: www.zedex.de

13. Working life:

❍❍ ☐ wished working life: _____ h

❍❍ ☐ permissible clearance increase

maximum radial clearance after _____ hours of operation _____ mm

maximum axial clearance after _____ hours of operation _____ mm

14. Miscellaneous:

special material wishes: _____

additional conditions to be served: _____

The more information you give to us by this questionaire, the more precise solution we can work out for your application

- Please add a representation or a sketck of your application -

Wolf Kunststoff - Gleitlager GmbH
Heisenbergstr. 63 - 65
D-50169 Kerpen - Türnich
NRW - Germany

Tel.: 0 22 37 - 97 49 - 0
Fax: 0 22 37 - 97 49 - 20
E-Mail: info@zedex.de
Internet: www.zedex.de