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Questionnaire Spindle Nut:

1. general data:

date: _____

company: _____

contact person: _____

street: _____

compartment: _____

city: _____

phone nr: _____

country: _____

telefax nr: _____

2. application:

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
- other: _____

4. attachment of the spindle nut:

- | | | |
|--|---|---|
| <input type="radio"/> <input type="checkbox"/> by a connection | <input type="checkbox"/> by a positive connection | <input type="checkbox"/> by a non positive connection |
| <input type="radio"/> <input type="checkbox"/> by screw coupling | <input type="checkbox"/> by a dowel pin | <input type="checkbox"/> by pressing in |
| <input type="radio"/> <input type="checkbox"/> by glueing | <input type="checkbox"/> _____ | <input type="checkbox"/> _____ |
| <input type="radio"/> <input type="checkbox"/> _____ | | |

housing / connecting parts:

- material:
- aluminium
 - steel
 - plastic
 - _____

Dimensions:

diameter and tolerance: _____ mm

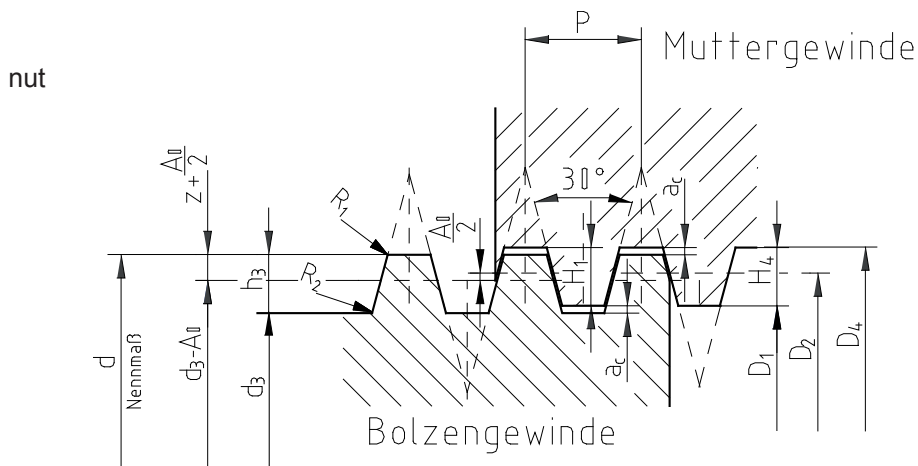
length and tolerance: _____ mm

5. dimensions of the spindle:

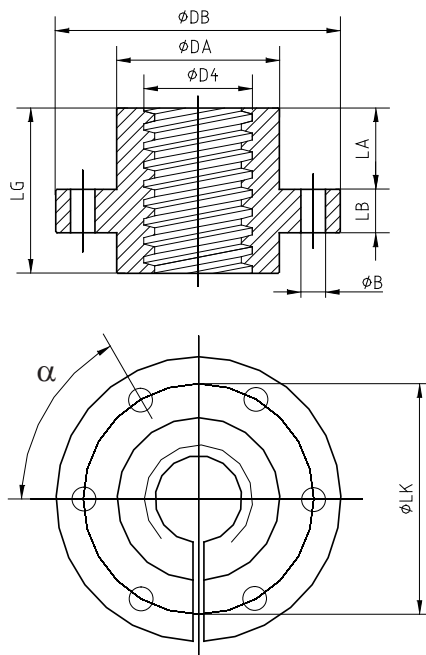
nominal diameter d : _____ mm
 Gesmatsteigung P_h : _____ mm
 Teilung bei mehrgängigen Gew.: _____ mm
 number of flights of the spindle n : _____
 total length of the spindle a : _____ mm
 flight land diameter d_2 : _____ mm
 root diameter d_3 : _____ mm
 manufacturing process of the spindle: rolled ground by lathe other _____
 spindle material: _____ μm hardness: _____ HRC

6. Dimensions of the spindle nut:

- thread outside diameter D_4 : _____ mm
 length of the spindle nut LG : _____ mm
 outside diameter of the spindle nut DA : _____ mm
 collar thickness b_2 : _____ mm
 min. flight land clearance: according to DIN smaller larger _____ mm
 min. flight clearance: according to DIN smaller larger _____ mm
 max. flight land clearance: according to DIN smaller larger _____ mm
 max. flight clearance: according to DIN smaller larger _____ mm



spindle



7. surrounding medium:

- outside use inside use
- medium: _____ temperature _____ °C
- air with a temperature of _____ °C
and a relative humidity of _____ %
- chemical
name: _____
concentration: _____ % pH value: _____ temperature: _____ °C

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 spindle and nut:

- abrasive particles:
 material: _____
 size: _____
 amount: _____
- other: _____
- as surrounding medium

9. electrical influences:

demanded electrical characteristics:

- penetration resistance _____ kV/mm
- dielectric constant _____
- loss factor _____
- resistivity _____ Ohm/cm
- surface resistance _____ Ohm

10. load:

10.1. axial force: static stress fatigue stress cyclic stress

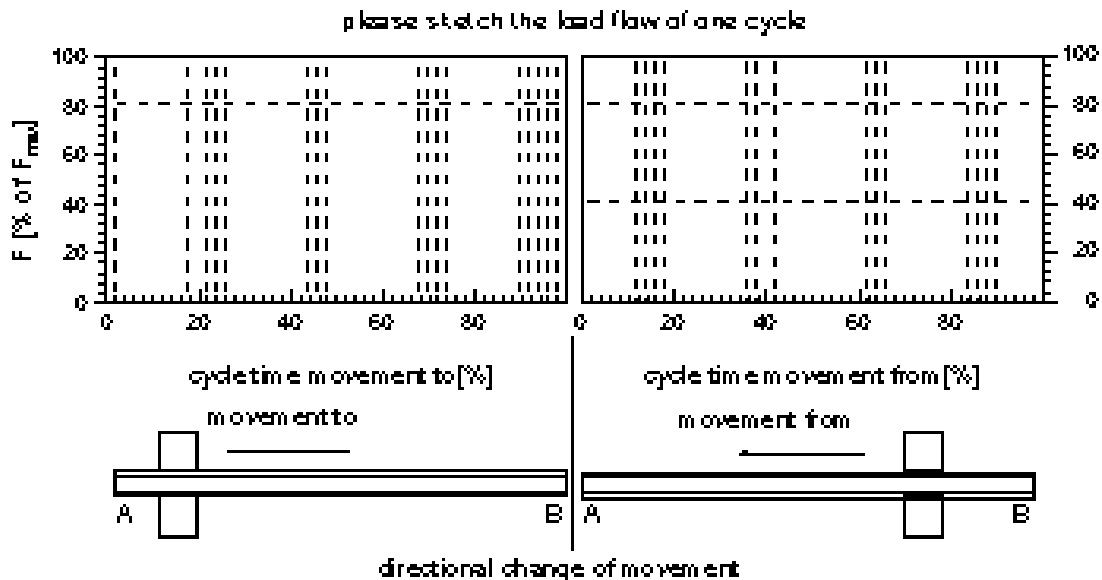
permanent: _____ N maximum: _____ N impact factor: _____

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 : _____



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

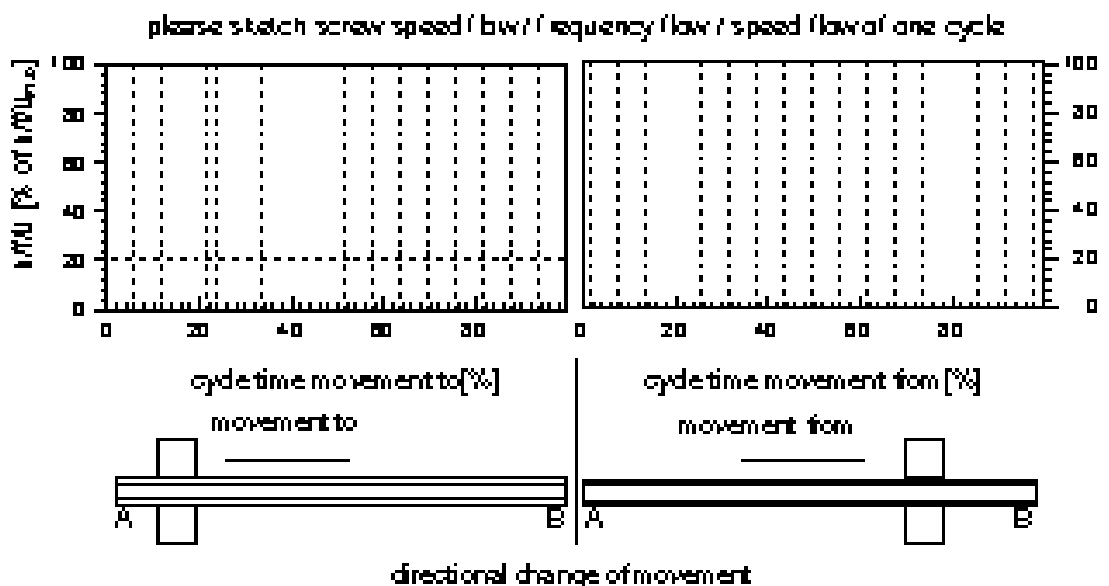
loading time with perm.spindle screw speed: _____ ms / s / min / h / days / years

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: _____



11.2. necessary nut stroke:

permanent strokespeed:

perm. stroke: _____ mm strokes per time unit: _____

loading time with permanent strokespeed: _____ ms / s / min / h / days / years

maximum strokespeed:

max. stroke: _____ mm strokes per time unit: _____

loading time with max. strokespeed: _____ ms / s / min / h / days / years

permanence of one stroke: _____

how long are the breaks between the strokes: _____

12 ambient temperature:

sustained temperature: _____ ° C

max. temperature: _____ ° C

how often per time unit does the max. temperature occur: _____

how long does the max. temperature occur per time unit: _____

what medium transfers the temperature: _____

which movement and load occurs simultaneously with the heat exposure:

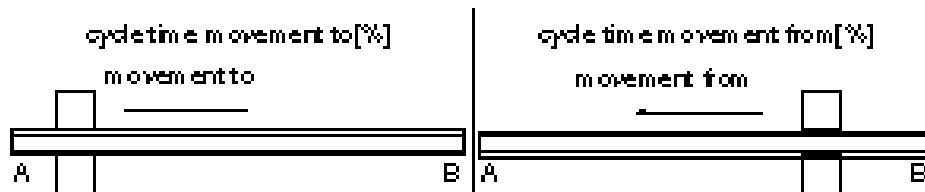
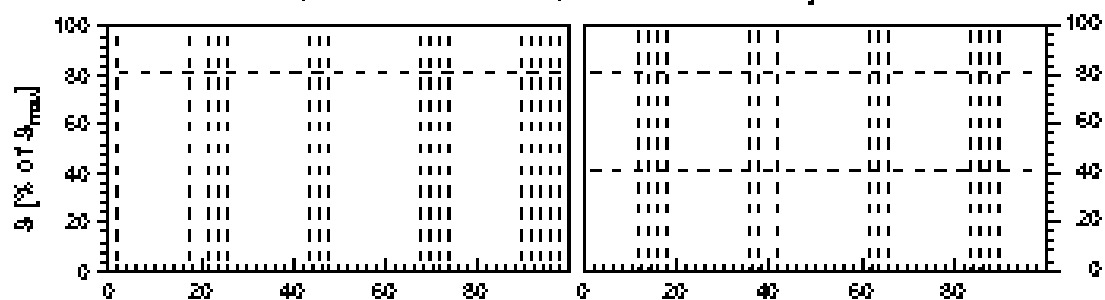
axial load:

- 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: _____

please sketch the temperature flow of one cycle



directional change of movement

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 us by this questionnaire, the more precise solution we can work out for your application!

Please add a representation or a sketch of your application!

AGM:

KM:

KO: