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Questionnaire Gears from Plastic:

1. general data:

company: _____
street: _____
city: _____
country: _____

date: _____
contact person: _____
compartment: _____
phone: _____
telefax: _____

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: _____

3. gear housing:

type: open partly open closed
gear surface: _____ mm²
material: _____
drive unit dimensions:
length L_{max} = _____ mm width B_{max} = _____ mm height H_{max} = _____ mm
possibly representation number: _____

4. interconnection data:

○ ← obligatory demand
○ ← wish-demand

spur toothed
 helical toothed, angle: _____ °
 left hand gradient
 right hand gradient
gear cutting quality: according to DIN 3961 or: _____
information about the reference profile
pressure angle: _____ °
top height: _____ mm
root height: _____ mm
root radius / tooth fillet: _____ mm

5. dimensions of the gear:

which gear shall be substituted by plastic:

- gear 1
 gear 2

pressure zone at the pitch circle: _____°

modulus: _____mm

material:

elastic modulus:

surface hardness:

roughness height Ra:

- pitch circle diameter:

- top circle diameter:

ground circle diameter:

profile displacement:

number of teeth:

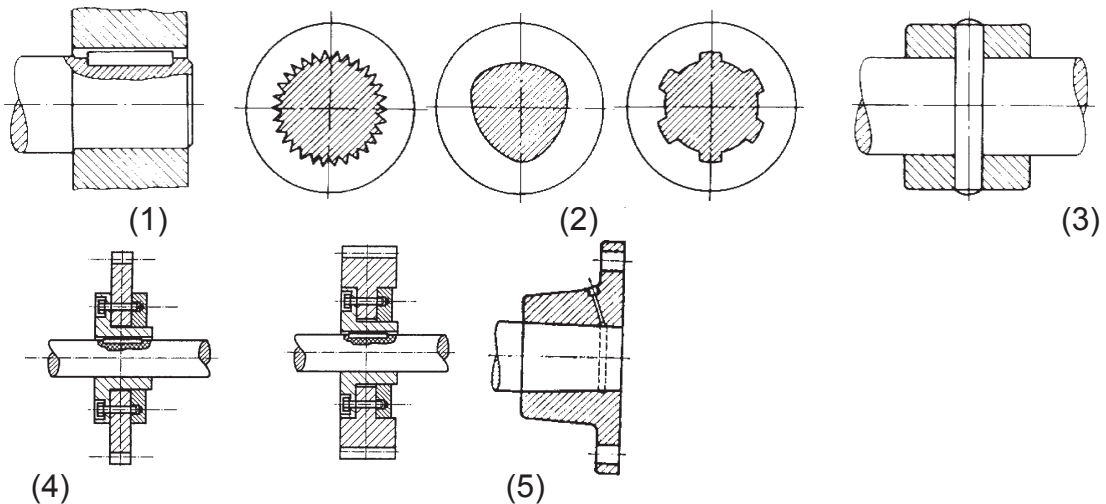
- tooth width:

- max. permissible flight land clearance

gear 1: _____	gear 2: _____
gear 1: _____	gear 2: _____
gear 1: _____ HRC	gear 2: _____ HRC
gear 1: _____ μm	gear 2: _____ μm
gear 1: _____ mm	gear 2: _____ mm
gear 1: _____ mm	gear 2: _____ mm
gear 1: _____ mm	gear 2: _____ mm
gear 1: _____ mm	gear 2: _____ mm
gear 1: _____	gear 2: _____
gear 1: _____ mm	gear 2: _____ mm
gear 1: _____ mm	gear 2: _____ mm

6. attachment of the gear:

please mark with a cross



- by a positive connection:
- by _____ pieces dowel pins (1)
 - by a profile shaft (2)
 - by a transverse pin (3)
 - by a flange (4)
 - by a groove wedge
 - _____

- by a non positive connection:
- by a conical seat
 - by a pressing upon
 - by a shaft nut

7. surrounding medium:

- outside use inside use

- medium: _____ °C

- air with a temperature of _____ °C
 and a relative humidity of _____ %

- chemicals

name: _____
 concentration: _____ % pH value: _____ temperature: _____ °C

7.1 medium between connecting parts:

- 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. electrical influences:

demanded electrical influences:

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

9. load on the driving wheel:

9.1. continuous load:

- power: _____ kW
- screw speed: _____ min⁻¹
- permanence of the continuous load: _____
- how often per time unit does the continuous load occur: _____

9.2. maximum load:

- power: _____ kW
- screw speed: _____ min⁻¹
- permanence of maximum load: _____
- how often per time unit does the max. load occur: _____

type of drive machine: _____ impact factor: _____
type of powered machine: _____ impact factor: _____
ambient temperature: _____ °C
turn on time: _____ %

10. movement:

- no movement further on at 11.
- no rotation further on at 10.2

10.1. rotation:

continuous screw speed: _____ min⁻¹ maximum screw speed: _____ min⁻¹
loading time with continuous screw speed: _____ ms / s / min / h / days / years
loading time with max. screw speed: _____ ms / s / min / h / days / years
permanence of one load cycle: _____
number of load cycles per time unit: _____
how long are the breaks between the load cycles: _____

no oscillation further on at 11

10.2. oscillation:

tilting angle: _____ °

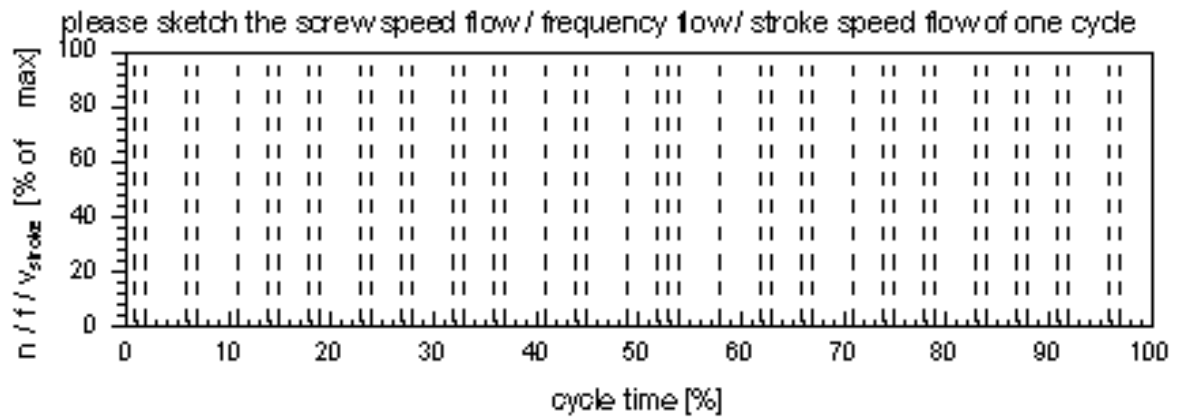
continous frequency: _____ Hz maximum frequency: _____ Hz

loading time with continous frequency: _____ ms / s / min / h / days / years

loading time with maximum frequency: _____ ms / s / min / h / days / years

permanence of one load cycle: _____

how long are the breaks between the load cycles: _____



11. ambient temperature:

permanent temperature: _____ °C

maximum. temperature: _____ °C

how often per time unit does the maximum temperature occur: _____

how long does the maximum temperature occur each time unit: _____

which medium transfers the temperature: _____

which movement and load occurs simultaineously with the heat exposure:

radial load:

- none
- permanent as at 9.1
- maximum as at 9.1
- other: _____ N

axial load:

- none
- permanent as at 9.2
- maximum as at 9.2
- other: _____ N

movement:

- rotation
 - none
 - permanent as at 10.1
 - maximum as at 10.1
 - other: _____

- oscillation
 - none
 - permanent as at 10.2
 - maximum as at 10.2
 - other: _____

11. 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

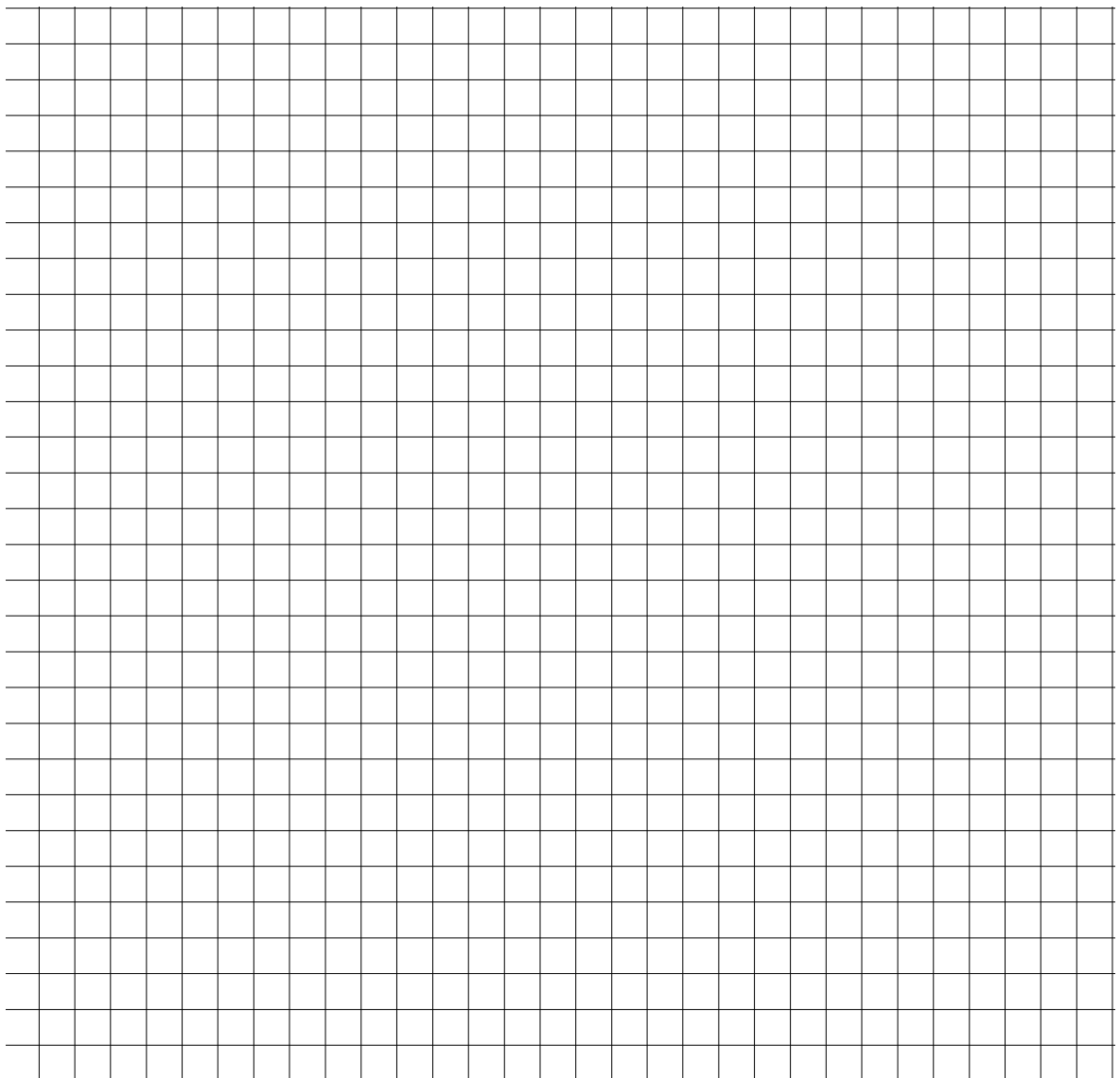
12. miscellaneous:

- 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: