Gear project checklist

Enter the application parameters you know here and receive
a free and non-binding consultation.

igus®

Customer data

Name: _____ E-mail: _____

Company: _____ Phone: _____

Project name: _____

Quantity: _____

1. Gear type

☐ Spur gear   ☐ Bevel gear   ☐ Plane bevel gear   ☐ Inner ring   ☐ Worm wheel

Module: _____ Number of teeth: _____ Tooth width: _____

Tooth profile: _____ ☐ Spur teeth   ☐ Helical teeth   ☐ Spiral teeth

Helix angle: _____

☐ Left-hand thread   ☐ Right-hand thread

2. Mating partner

☐ Gear   ☐ Gear rack

Number of teeth: _____ Tooth width: _____ Material: _____

Other counter partners: _____

3. Shaft-hub combination

☐ Cylindrical press fit   ☐ Key connection   ☐ Square

☐ D-Cut   ☐ Spline shaft   ☐ Polygon   ☐ _____

4. Application

☐ New application   ☐ Existing application in use since: _____

Material: _____

Description of application:

Motion type: ☐ Rotary   ☐ Linear   ☐ Pivoting   Operating factor Kb: _____

$Kb = 1 - 2.25$ (ISO 6336, DIN 3990, DIN 3991)

Load data for Gear 1

Load: ☐ I - Static   ☐ II - Pulsating   ☐ III - Alternating

Max. drive torque: _____ [Nm]   Speed: _____ [rpm]

Duty cycle in seconds: _____

Total cycle time in seconds: _____

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5. Requirements

Service life: _____

Min. application temperature: _____ [°C]   Max. long-term application temperature: _____ [°C]

Max. short-term application temperature: _____ [°C]

Lubrication: ☐ Dry operation   ☐ Initial lubrication/lubrication during installation   ☐ Continuous lubrication

Lubricant: _____

Chemical resistance to: _____

☐ UV resistance   ☐ Use in vacuum   ☐ Electric conductivity   ☐ Fire protection
☐ Contact with food ☐ Indoor use   ☐ _____

6. Further customer requirements

☐ Specifications   ☐ SC (relevant for function)   ☐ CC (relevant for safety, legal requirements)
☐ Drawing   ☐ Quality assurance agreement   ☐ _____

7. Material selection

Material: _____   ☐ I need advice on selecting the right material

8. Quality

Toothing quality: _____

Special QA inspection: _____

9. Further requirements

☐ Dry operation   ☐ Media resistance   ☐ Service life
☐ Noise comparison ☐ Weight   ☐ _____

10. Miscellaneous/remarks

Send your completed checklist to de-gears@igus.net and receive support for your application.