

# Gear project checklist



Enter the application parameters you know here and receive your free consultation.

## Customer data

Name: \_\_\_\_\_ E-mail: \_\_\_\_\_  
Company: \_\_\_\_\_ Phone: \_\_\_\_\_  
Project name: \_\_\_\_\_

## 1. Gear type

Spur gear    Bevel gear    Plane bevel gear    Inner ring    Worm wheel

Module: \_\_\_\_\_ Number of teeth: \_\_\_\_\_

Toothing:    Spur toothing    Helical toothing    Spiral toothing

Helix angle: \_\_\_\_\_

Left-hand thread    Right-hand thread

## 2. Counter partners

Gear    Gear rack

Number of teeth: \_\_\_\_\_ Material: \_\_\_\_\_

Other mating partner: \_\_\_\_\_

## 3. Shaft-hub combination

Cylindrical press fit    Feather key connection    Square  
 D-Cut    Spline shaft    Polygon    \_\_\_\_\_

## 4. Application

New application    Existing application in use since: \_\_\_\_\_

Material: \_\_\_\_\_

Description of application: \_\_\_\_\_

Movement type:    Rotatory    Linear    Pivoting   Operating factor Kb: \_\_\_\_\_

Load:    I - Static    II - Swelling    III - Alternating

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

Max. drive torque: \_\_\_\_\_ [Nm]   Speed: \_\_\_\_\_ [rpm]

Operating time: \_\_\_\_\_

# Gear project checklist



## 5. Requirements

Lifetime: \_\_\_\_\_

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

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

Lubrication:  Dry running     Initial lubrication/lubrication during installation     Continuous lubrication

Lubricant: \_\_\_\_\_

Chemical resistance against: \_\_\_\_\_

UV resistance     Use in vacuum     Electrical conductivity     Fire safety

Contact with food     Use indoors     \_\_\_\_\_

## 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 for selecting the material

## 8. Quality

Tooth quality: \_\_\_\_\_

Special QA inspection: \_\_\_\_\_

## 9. Further requirements

Dry running     Media resistance     Service life

Noise reduction     Weight     \_\_\_\_\_

## 10. Miscellaneous/Remarks

---

---

---

---

1. **Save**

2. **Upload it here** [igus.eu/gear-special-parts](https://igus.eu/gear-special-parts)