



- **Gear cutting**

Prospectus

Partner for

- **Drive technology**
- **Plant engineering**
- **Mach. engineering**
- **Transmissions**
- **Vehicle engineering**

www.alform.de

As a manufacturer of geared parts for use both in industrial drive systems as in machine- and plant engineering you can find customer-specific gears of Alform in a variety of applications. For example as a worm shaft in a convertible roof in a vehicle or as a 1.000kg spur gear or gear coupling in a conveyor system or a rolling mill gearbox. When quality is needed, our worldwide customers prefer to take advantage of our decade-long experience in the gearing process. We produce mostly custom designed gears and couplings according to the customer's drawing but also standard gears and gear couplings according to our catalogue.

Materials and manufacturing processes in modern production sites

We use all in machine- and plant engineering used steel and casting alloys as well as nonferrous metals like aluminum, brass, bronze for CNC turning and milling, hobbing, gear shaping, broaching, shaving, lapping, gear grinding, external and internal cylindrical grinding.

Heat treatment:

Required heat treatments such as case hardening, long term / short term gas nitriding, plasma nitriding, carbonitriding, carburizing, nitrocarburizing and inductive heating we do in specialized ISO 16949 certified partners.



Spur gears: straight, helical or double-helical. Outside Diameter: min. Ø 20mm – max. Ø 2.500mm
Modular Pitch Min. 0.5 – max. 32
Face width max. 1.000mm
Tooth flanks are milled, shaved or ground.
On request gear quality up to 4 acc. DIN 3965.



Internal Gears:

Inside Diameter min. Ø 20mm – max. 1.700mm
Modular Pitch min. 0,5 – max. 16, Face width max. 400mm
Helical cutting and grinding between Ø 250mm-1.200mm and within this range on request gear quality up to 4 acc. DIN 3965.



Bevel gears: straight or spiral, (cyclo palloid, hypoid)
Outside Diameter min. Ø 20mm – max. 800mm
Modular Pitch min. 1 - max: 10
Tooth flanks milled or lapped.



Wormshafts:

Outside Diameter: min. Ø 20mm – max. 80mm
Modular Pitch min. 1 – max. 6

Worm Gears:

Outside Diameter min.. Ø 20mm – max..350mm
Modular Pitch min. 1 max. 6



Racks :

Max.width: 600mm max.Length:4.000mm,
Modular Pitch: min. 1 – max. 25



Gear couplings with curved toothing:

We design and produce your gear couplings with curved teeth with torques up to 10.000.000 Nm and Ø 1.200mm according to your requirements. You can also find standard gear couplings in our catalogue and choose the appropriate coupling according to your specifications.



Pinion shafts, splined shafts:

Outside Diameter: min. Ø 20mm max.2.500mm
Modular Pitch min: 0,5 – max. 32



HÖFLER
RAPID 1250



MILLING TOOTHFLANCS + GRINDING

MILLING TOOTHFLANCS + GRINDING + MEASUREMENT
ALL BY THE SAME MACHINE

Thanks to the newest machine „Hoefer Rapid 1250“ we can measure the gears right after milling and grinding. This way we achieve topmost and documentable precision and we can achieve a quality of tothing 4-5 acc. to DIN 3965. Under specific circumstances we can supply an even better quality. In the same machine the ring gears with internal teeth inclined milling and grinding can be done, so that in the range of can be milled \varnothing 250 mm-1.200 mm and a quality of gearing up to 4 acc. to DIN 3965.



TOOTHFLANC MEASUREMENT





ALFORM

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