

PRODUCTION FACILITIES

TURNING

maximum diameter 800 mm	maximum length 400 mm
maximum diameter 500 mm	maximum length 3000 mm

MILLING

maximum module	max m	10
maximum diameter	max Ø	750 mm
maximum length	max L	350 mm - helical teeth 400 mm - straight teeth

GRINDING

maximum module	max m	10
maximum diameter	max Ø	400 mm (addendum circle)
minimum diameter	min Ø	10 (15) mm (dedendum circle)
maximum length	max L	480 mm
maximum wheel width	max H	260 mm
maximum loading		50 kg
helix angle of tooth	β	± 45 °



SERVICE, REPAIRS, AND MAINTENANCE:

- Inspections on the spot
- Repairs by replacement of defective and damaged parts
- Complete overhauls
- Repairs and manufacture of toothed parts and shafts according to drawings or by reverse part measurements
- Replacement of current components
- Modifications

TECHNOLOGIES

MANUFACTURING TECHNOLOGY OF PSP POHONY:

- Machining of housing components
- Milling of spur gears
- Grinding of spur gears
- Turning of shaft components
- External grinding
- Internal grinding
- Surface grinding
- Shaping of external teeth
- Shaping of internal teeth

We provide milling and grinding of spur gear systems with straight and helical teeth from module 1 to module 10, with the maximum external diameter of the wheel of 400 mm.



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CONTACTS

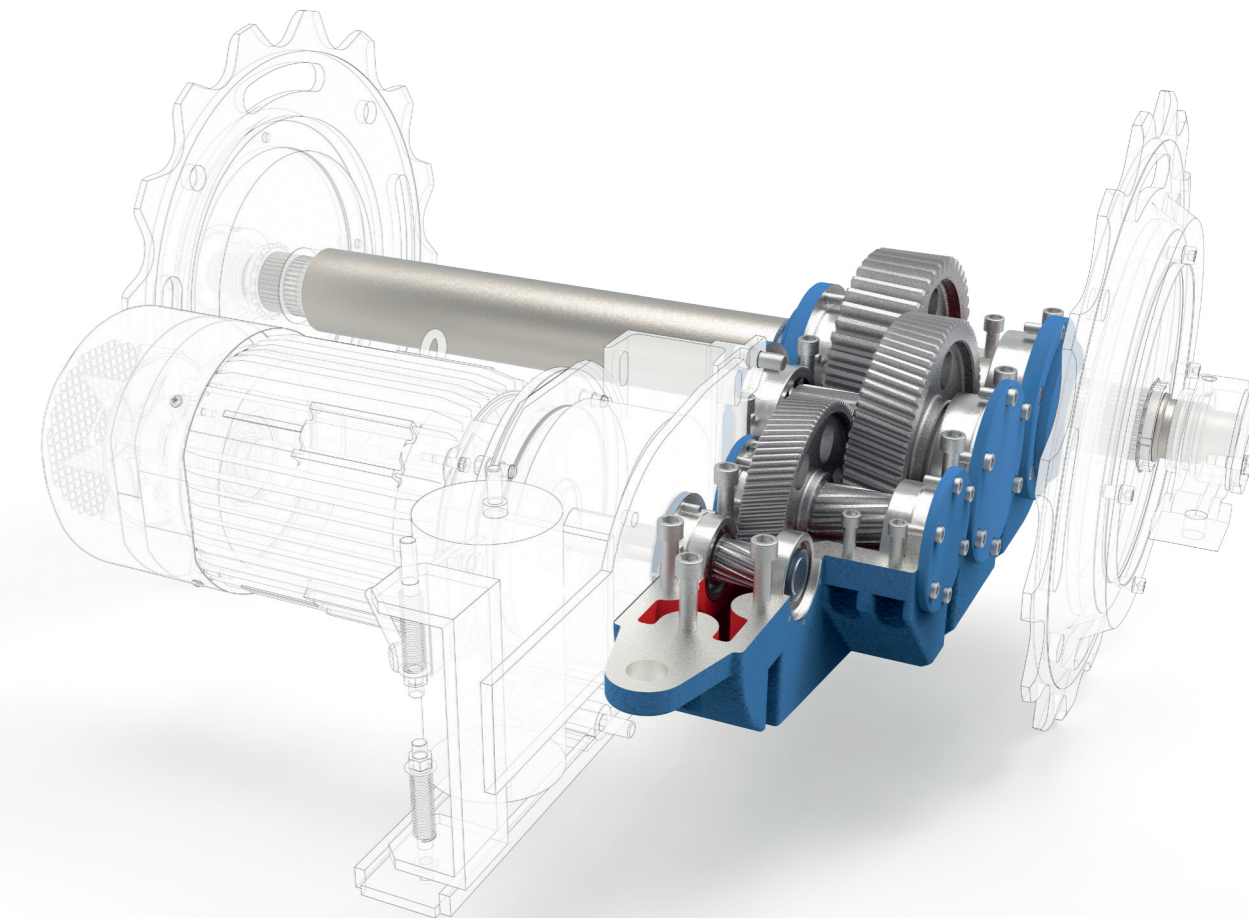


PSP Pohony
Kojetínská 3148/73d
750 02 Přerov I - Město
Czech Republic

E-mail: obchod@pohony.cz, export@pohony.cz
Sales department telephone numbers: +420 581 808 710, +420 581 808 712
+420 581 808 715, +420 581 808 718

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GEARBOXES | CLUTCHES AND BRAKES | COMPONENTS

Solution in motion...

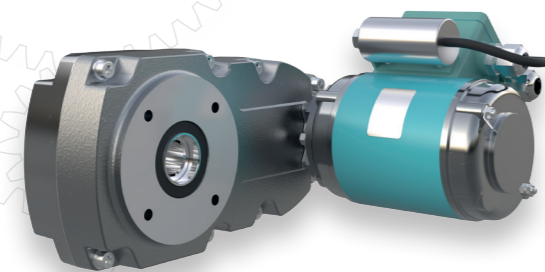
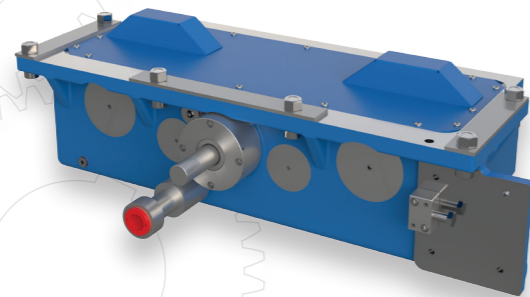
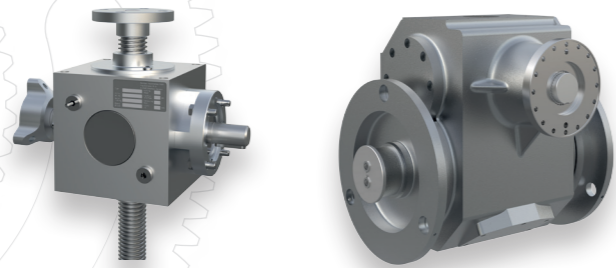
GEARBOXES

We produce spur gears and helical-bevel gears for various applications. Our design department develops and manufactures prototypes of various modifications for the following industries:

- Building industry and production of building materials
- Raw material extraction and processing
- Metallurgy and metal processing
- Energy and heat engineering
- Agriculture
- Continuous handling
- Municipal engineering, environmental protection
- Handling equipment, logistics
- Gardening machinery
- Heating technology
- Machine tools, packing machines, and textile machines
- Printing machines, woodworking machines
- Medical appliances
- Lifting appliances

We can meet customer-specific demands – customised solutions are a significant part of our production. We utilise the latest knowledge and experience in the particular field, we use state-of-the-art 3-D software and simulation programmes.

Gearbox output	0,18 – 150 kW
Gear ratio	2,5 – 200
Output torque	20 - 50 000 Nm



CLUTCHES AND BRAKES

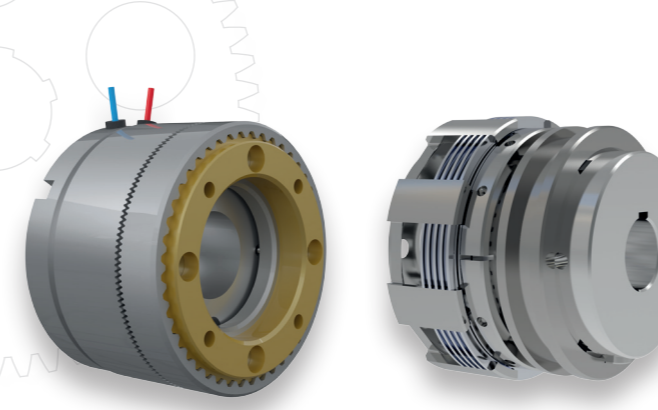
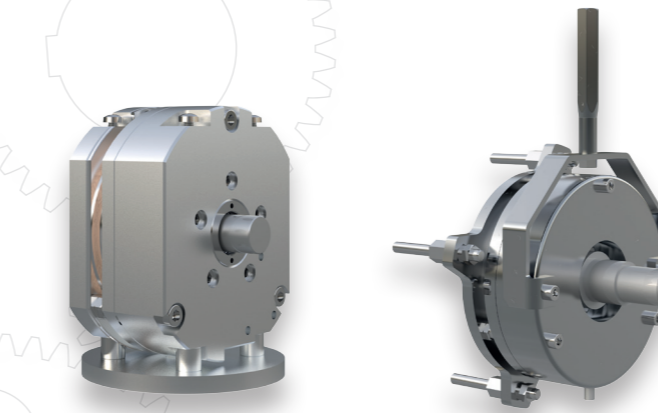
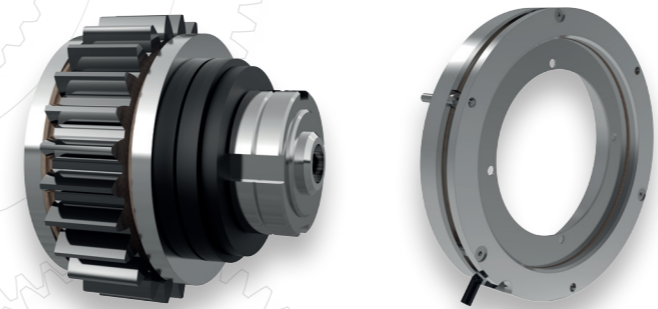
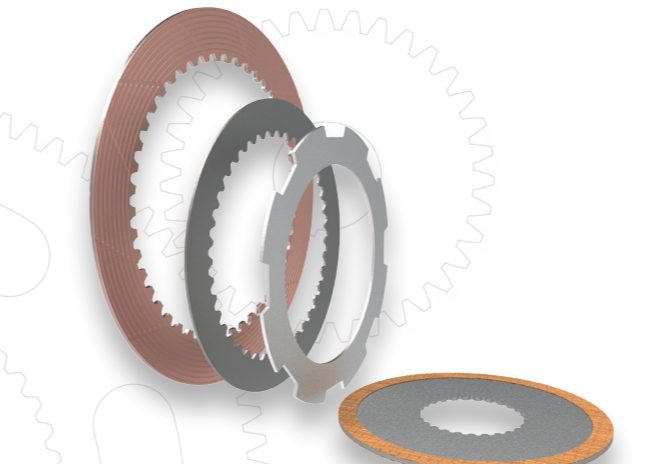
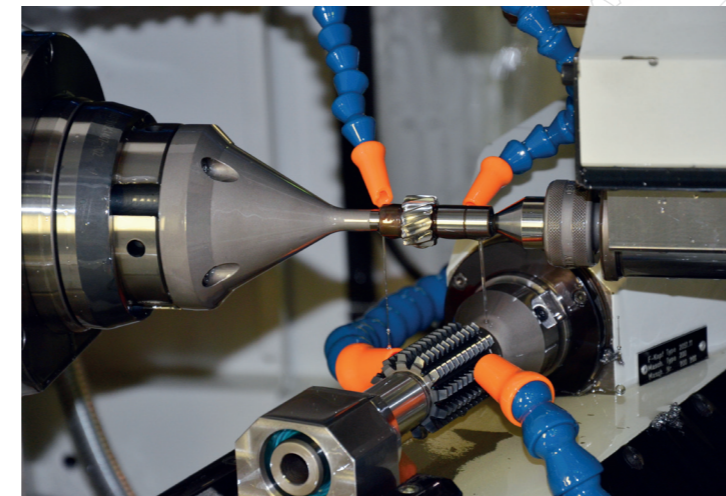
We manufacture a wide range of both standard and special clutches and brakes for various industries – for instance, machine-tool construction; textile engineering; manufacture of electric motors; packing, food-processing, and woodworking machines; lifting appliances; and manufacture of single-purpose machines. We also offer manufacture of customised clutches and brakes.

CLUTCHES:

- **Electromagnetic**
(torque: from 10 Nm to 4,500 Nm)
- **Flexible**
(torque: from 5 Nm to 900,000 Nm)
- **Mechanical**
(torque: from 25 Nm to 2,500 Nm)

BRAKES:

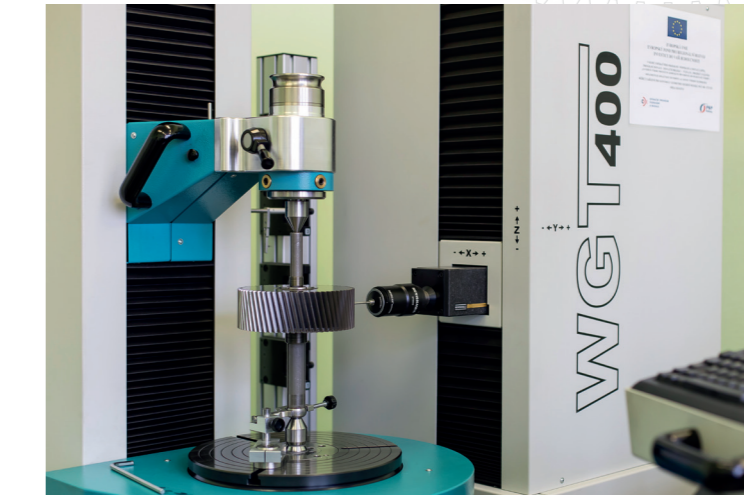
- **Actuated with springs**
(torque: from 5 Nm to 500 Nm)
- **Actuated with electromagnet**
(torque: from 6,3 Nm do 630 Nm)



COMPONENTS

We manufacture gear tooting as spare parts for gearboxes, or through the supplies of gear wheels, pinions, toothed shafts, ring gears with tooting surface treatment by case-hardening (nitridation), quenching. These spare parts are intended for various industries. The attained degree of precision of the tooting is documented by protocols from our own WENZEL measuring centre.

We also offer machining of cast pieces, weldments, forged pieces, and shaft components.



MEASUREMENT PARAMETERS	
measurement of components	maximum length 2000 mm maximum height 950 mm maximum weight 500 kg
measurement of gear tooting	maximum Ø 350 mm maximum module m = 10 maximum weight 100 kg

