

**Wikov** besides designing and manufacturing of gears, gearboxes and complete drive systems offers one-off machine operations as a part of subcontracting orders. Such type of work may involve turning (including vertical turning), shaping, hobbing, grinding the gearing or diameters, CNC machining, heat treatment and many other operations.

We use state-of-the-art machine tools. All operations are controlled and assessed using first class measuring devices. Gearing geometry is verified on the Klingelnberg P300 machine. All the dimensions, parameters, list of machines and operations mentioned in this brochure are to give you a rough outline; for more detailed information, contact us using contact details below.

# Production and Machine Tools

Wikov Gear s.r.o.



## Wikov Manufacturing Facility

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The Essence of Engineering



### Lathes

Dimensions of semi-finished products

from  $\varnothing$  10 x L = 40 to  $\varnothing$  500 x L = 1500 mm (grinding)

from  $\varnothing$  10 x L = 40 to  $\varnothing$  1250 x L = 4000 mm (turning)

Accuracy of tools up to IT5 according to ISO 286-1:1988

Machines

Geminis GHT 6 – 1300

MASTURN 70/2000 CNC

SU 50A, SU 90A, SU80 a SUR350, 16K 20 P

### Vertical lathes

Number of pieces from 1 pc

Dimensions of semi-finished products

to  $\varnothing$  3300 x L = 2900 mm; to  $\varnothing$  5000 x L = 2000 mm

Max. weight 40 000 kg

Accuracy of tools up to IT5 according to ISO 286-1:1998

Machines

SK12 and SKJ 25/50

### Gear shaping machines

Module 1-16

Pitch diameter 20-2000 mm

Max. face width 350 mm

Roughness  $R_a$  3,2 – 6,3

Accuracy DIN 3961 IT8

Max. weight 20 000 kg

Internal helical gear hobbing to be consulted

Machines

Gleason-Pfauter P1600/2000S

Lorenz 1250 S

Lorenz 1000

ZSTW2 1000

### Gear hobbing machines

Module 3-65

Pitch diameter 60-3500 mm

Max. face width 1200 mm

Max. pinion length 3400 mm

Roughness  $R_a$  3,2

Accuracy DIN 3961 IT 9(8)

Max. weight 30 000 kg

Machines

OF 71-II A

Schiess RWF 10

Pfauter P900

Pfauter P400

Volman FO 16

Volman FO 25

Modul Werke ZFWZ 3150



### Bevel gear cutting machines

Module (lapped) 4,0 – 15,5

Module (HPG) 5,5 – 15,5

Pitch diameter 50 – 1150 mm

Max. face width 160 mm

Roughness  $R_a$  0,8

Accuracy DIN 3961 IT6

Machines

Klingelberg C100 U HPG

IMO 1000 measuring device



### Profile grinding machines

Module external/internal 0,5- 35 / 22

Pitch diameter 50-2800 mm

Max. face width 1300 mm in dependence on  $\beta$  angle

Max. pinion length 2500 mm

Roughness  $R_a$  0,8

Accuracy DIN 3961 IT 4

Max. weight 8 000 kg; pinion 3 000 kg

Machines

Gleason-Pfauter P 2400 G

Niles ZP 20

Niles ZP 8

OPAL 800



### Machine centres

Travel X x Y x Z 3500 x 2000 x 1250 mm

Semi-finished products welded, casted up to 12 000 kg

Heat treatment annealing

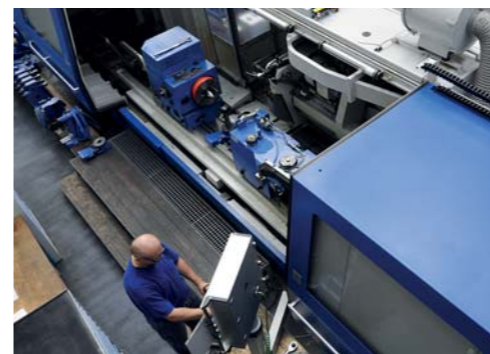
Pitch accuracy  $\pm 0,02$  mm

Machines

Hartford Mirage HEP-2150AG

WHQ 13 CNC

W100



### Centre grinders

Dimensions of semi-finished products

up to  $\varnothing$  850 x L = 3000 mm

Max. weight 3 000 kg

Machine

BUC 85 CNC

### Heat treatment

Type of heat treatment	Charge		Temperature (°C)	
	max. useful dimensions (mm)	max. mass (kg)		
Annealing – various types	$\varnothing$ x l	1500 x 1980	200	650
HF surface hardening (gears)	$\varnothing$ x l	1200 x 1200		