

Wikov besides designing and manufacturing gears, gearboxes and complete drive systems, also offers one-off machine operations as part of subcontracting orders. Such type of work might 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 technologies. All operations are inspected and assessed using first-class measuring devices.

Gearing geometry is verified on Klingelnberg P100 or P300 machines. For 3D measurements, we use Wenzel LHF3020-40 and LH108 devices.

All the dimensions, parameters, lists of machines and operations are stated here only to give you a rough outline; for more detailed information, contact us at the addresses below.

Production and machinery

Wikov MGI a.s.



Wikov Manufacturing Facility

Contacts

Wikov MGI a.s.

Zbečnick 356

549 31 Hronov

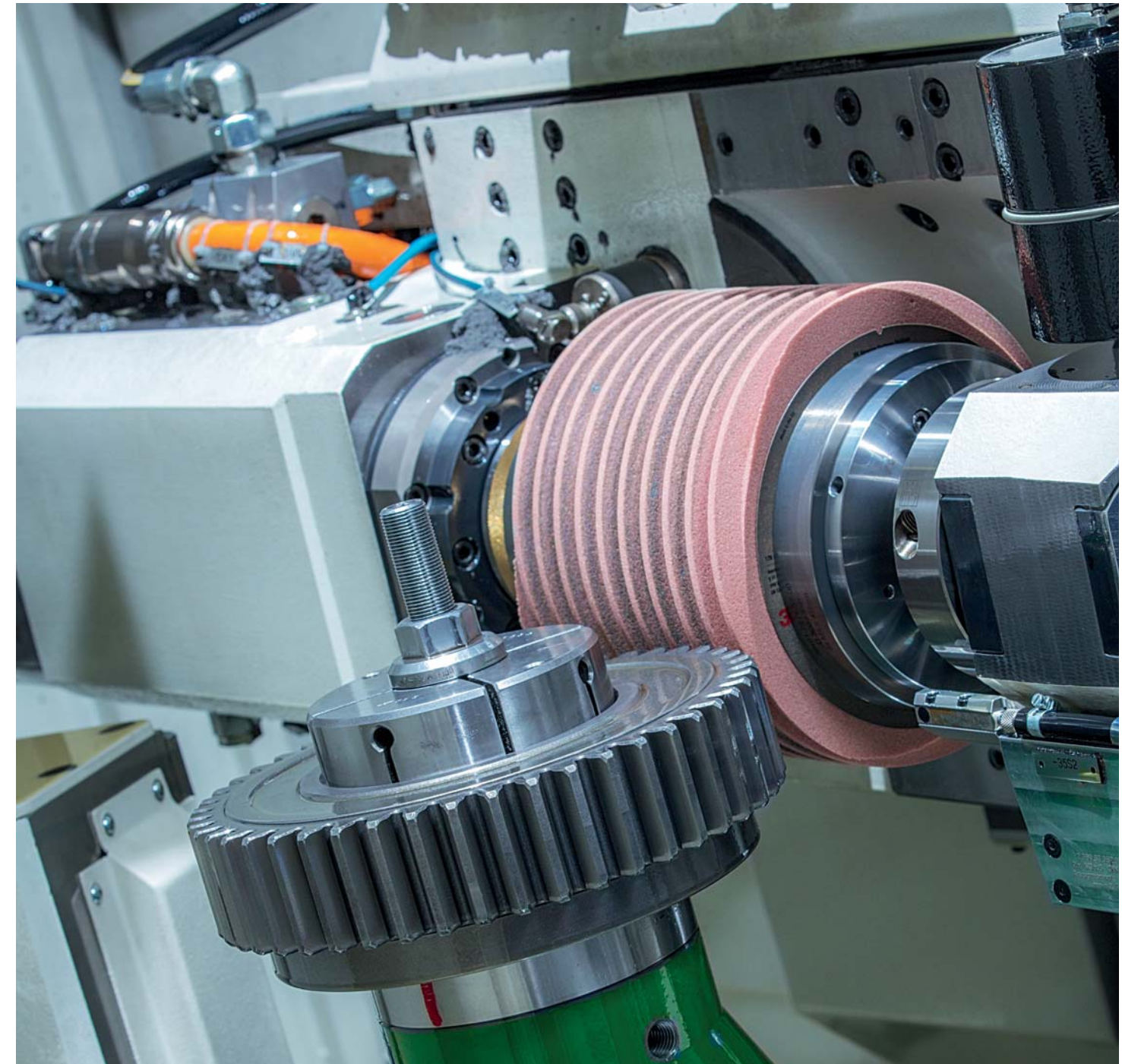
Česká republika

T: +420 491 488 383

E: mgi@wikov.com

www.wikov.com

CZ2302



The Essence of Engineering



Lathes

Dimensions of semi-finished product	from Ø 10 x L = 40 to Ø 850 x L = 3000 mm (for grinding) from Ø 10 x L = 40 to Ø 940 x L = 3800 mm (for turning)
Accuracy	from IT5 according to EN ISO 286-1
Machines	CTX 1250 Gamma GHT-6-1300-G2x4000 Gildemeister NEF 600 V3 SUS 80 and SU 90

Vertical lathes

Number of pieces	from 1 pc
Dimensions of semi-finished product	from Ø 10 x L = 40 to Ø 2000 x L = 1500 mm
Accuracy	from IT5 according to EN ISO 286-1
Machines	Powerturn 2000 C-M



Gear shaping machines

Module	1.5 – 5
Pitch diameter	50 – 480 mm
Max. facewidth	110 mm
Roughness	Ra 3.2 µm
Accuracy	DIN 3961 IT9-10
Max. mass of semi-finished product	300 kg
Machines	OHA 50A



Gear hobbing machines

Module	1.5 – 22
Pitch diameter	6 – 1250 mm
Max. facewidth	500 mm
Max. length of pinion	1200 mm
Roughness	Ra 1.6 µm
Accuracy	DIN 3961 IT7
Max. mass of semi-finished product	1500 kg
Machines	Pfauter P 600/800 Pfauter P 1200 Liebher LC 380 DC



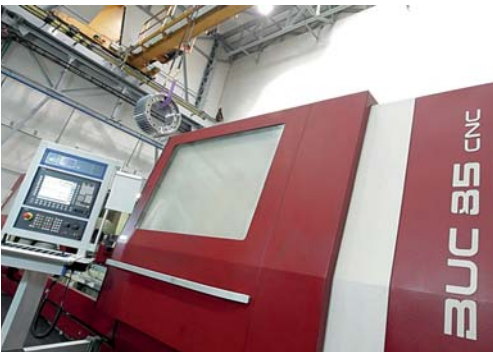
Gear grinding machines

Module	1.5 – 22
Pitch diameter	15 – 1200 mm
Max. facewidth	1000 mm
Max. length of pinion	1600 mm
Roughness	Ra 0.8 µm
Accuracy	DIN 3961 IT4
Max. mass of semi-finished product	4000 kg; pinion 3000 kg
Machines	Niles ZE 1000 (1200) Niles ZE 400 Niles ZX 630



Machining centres

Travel X x Y x Z	12000 x 3600 x 1600 (1900) mm
Semi-finished products	welded, cast
Pitch accuracy	up to 1000 mm ± 0.01 mm; over 1000 mm ± 0.02 mm
Machines	StarragHeckert HEC 1800 Hedelius 100 SHW-UF 6 L FRFQ 250 StarragHeckert HEC 800 X5 with a pallet loader



Cylindrical grinding machines

Dimensions of semi-finished product	up to Ø 770 x L = 3000 mm
Max. mass of semi-finished product	3000 kg
Machines	BUC 85C CNC UB 63/2000 CNC



Heat treatment

Type of heat treatment	Charge			Temperature (°C)	Depth of layer (mm)
		max. useful dimensions (mm)	max. mass (kg)		
Annealing / tempering – car-type furnace without protective atmosphere	w x h x d	3000 x 2000 x 4500	10000	900	
Hardening – car-type furnace without protective atmosphere	w x h x d	1000 x 1000 x 2000	2000	960	
Hardening / tempering – shaft furnace with controlled atmosphere	ø x d	2000 x 2500	8000	950	
Gas Carburizing – pit-type furnace	ø x d	2000 x 2500	8000	950	up to 5,0
Sub-zero treatment	ø x d	2000 x 2500	8000	-60 to +450	
Gas nitriding – bell-type furnace	ø x d	750 x 1200	1100	520	up to 0,7