



Slovácké strojírný a. s.
závod 8 – TOS Čelákovice



CZECH REPUBLIC



The product range of Slovácké strojírny a.s., závod 8 -TOS Čelákovice covers high precise grinding machines, conventional and CNC lathes and CNC Gear Cutting Machines. Machines are delivered also in technological sets adjusted according to requirements of the client. The latest product of the firm is the very accurate TT75 multi-functional tool centre meeting the most demanding requirements of clients.

DETAIL
gear hobbing and shaping



grinding of the shaft





PRODUCTION PROGRAM

Grinding machines:

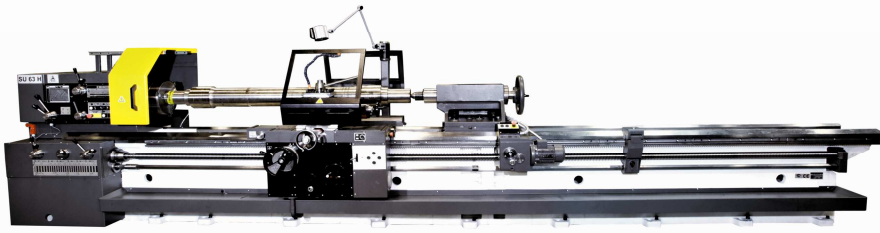
BUA 25 B Practic
BUA 25 B Profi
BUB 40, 50 B Practic
BUB 40, 50 B Profi
BUB 50 B Multi
BUC 63, 85 C Practic
BUC 63, 85 C Profi
BUC 63,85 C Multi
C 250 CNC
C 500 CNC

Lathes:

SU 63, 80 H
SU 100, 125, 150 H
SUA 63, 80 Numeric
SUA 100, 125, 150,
170,190,200 Numeric
TT 75

Gear Cutting Machines:

OFA 32 CNC 6
OFA 75 CNC 6
OFA 100 CNC 6
OHA 50 CNC 5



Execution of basic version:

Turning length: 1250 - 12500 mm
 Swing over bed: 655, 840 mm
 Swing over cross slide: 390, 530 mm
 Output of main motor: 18,5 kW
 Spindle bore : \varnothing 82 mm
 Spindle revolutions: 9 -1120 7,1 – 900 rpm
 Weight: 5700 12 700 kg



SU 63 – 80 H

CONVENTIONAL LATHES

SU 100, 125, 150 H



Execution of basic version:

Turning length: 2000- 8000 mm
 Swing over bed: 1050, 1250, 1500 mm
 Swing over cross slide: 730, 940, 1200 mm
 Output of main motor: 22 kW
 Spindle bore \varnothing 122 mm
 Spindle revolutions: 2,8-560, 2,24- 540, 1,8- 355 rpm
 Weight: 8300-13400 kg



Execution of basic version:

Turning length: 1250 - 8000 mm
 Swing over bed: 655, 840 mm
 Swing over cross slide: 380, 530 mm
 Control system: Siemens Sinumerik 840 D sl

Output of main motor: 30 kW
 Spindle revolutions: 5 – 1400, 5-1250 rpm
 Complete guards with front door
 Spindle bore: $\varnothing 102$ and $\varnothing 128$ mm
 Weight: 6500 – 10800 kg

SUA 63 – 80 NUMERIC LATHES WITH CYCLE CONTROL SUA 100, 125, 150 NUMERIC



Execution of basic version:

Turning length: 2000 - 8000 mm
 Swing over bed: 1050, 1250, 1500 mm
 Swing over cross slide: 720, 930, 1190, mm
 Control system: Simens Sinumerik 840D sl
 Output of main motor: 37 kW
 Spindle revolutions: 2 – 630 rpm
 Complete guards with front door
 Spindle bore: $\varnothing 128$ mm
 Weight: 9500 – 13800 kg



Execution of basic version:

Turning length:	2000 - 6000 mm	Max. longitudinal lift (3000 mm):	3100 mm
Swing over bed:	1000 mm	of upper support Z1 (2000 mm):	2100 mm
Swing over cross slide:	750 mm	Max. lift of of Y1 axis:	+120/-90°
Control systém:	SIEMENS Sinumerik 840D sl	Max. rotation speed:	6500 ot/min
Tool clamping:	CAPTO 6 or 8 or HSK 80	Weight:	35000 – 40000 kg
Max. transverse lift of upper support X1:	782 mm		

MULTIFUNCTIONAL LATHE CENTRE TT 75 GEAR SHAPING MACHINE OHA 50 CNC 5



Execution of basic version:

Max. module of gearing to be hobbled:	7 mm
Max. diameter of gearing to be hobbled:	320 mm
Max. helix angle of teeth:	+ - 45°
Range of revolutions:	71-700 rpm
Output of main motor:	12 kW
Control systém:	SIEMENS Sinumerik 840 D sl
Weight:	8000 kg



Execution of basic version:

Max. module of gearing to be hobbled:	7 mm
Max. diameter of gearing to be hobbled:	320 mm
Max. helix angle of teeth:	+ - 45°
Range of revolutions:	71 – 700 rpm
Output of main motor:	12 kW
Control system:	SIEMENS Sinumerik 840 D sl
Weight:	8100 kg

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OFA 32 CNC 6 GEAR HOBGING MACHINE OFA 75 CNC 6



Execution of basic version:

Max. module of gearing to be hobbled:	12 (14) mm
Max. diameter of gearing to be hobbled:	750 (900) mm
Max. helix angle of teeth:	+ - 45°
Range of revolutions:	25 – 450 rpm
Output of main motor:	28 kW
Control system:	SIEMENS Sinumerik 840 D
Weight:	13500 kg



Execution of basic version:

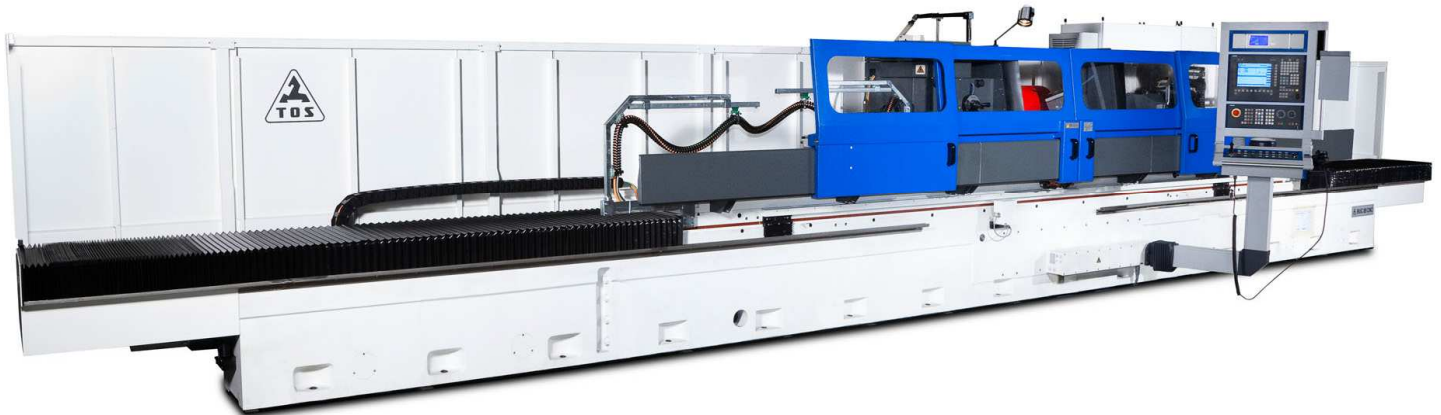
Distance between centres:	500, 750, 1250 mm
Swing diameter:	250, 315 mm
Max. weight of workpiece:	250 kg
Spindle revolutions:	20 – 800 rpm
Control system:	SIEMENS Sinumerik 840 D sl.
Weight:	3600 – 4200 kg

BUA 25B Practic, Profi GRINDING MACHINES BUB 40B, 50B Practic, Profi, BUB 50B Multi



Execution of basic version:

Distance between centres:	1000, 1500, 2000, 3000 mm
Swing diameter:	400, 500 mm
Max. weight of workpiece:	500 kg
Control system:	SIEMENS Sinumerik 840 D sl
Weight:	6700 – 8700 kg
Workpiece revolutions:	6- 170, 30 – 900 rpm



GRINDING MACHINES BUC 63C, 85C Practic, Profi, Multi

Execution of basic version:

Distance between centres:	2000, 3000, 4000, 5000, 6000 mm
Swing diameter:	630, 850 mm
Max. weight of workpiece:	3000 kg
Operating accuracy:	IT 4
Control system:	SIEMENS Sinumerik 840 D sl.
Weight:	12 540 – 19 390 kg





Execution of basic version:

Max. length of workpiece:	300 mm
Min. and Max. diameter of workpiece:	1 – 100 mm
Revolutions of regulating wheel:	5 – 914 rpm
Grinding wheel drive power:	22 (30) kW
Weight:	13 650 kg

C 250 CNC CENTRELESS GRINDING MACHINE C 500 CNC

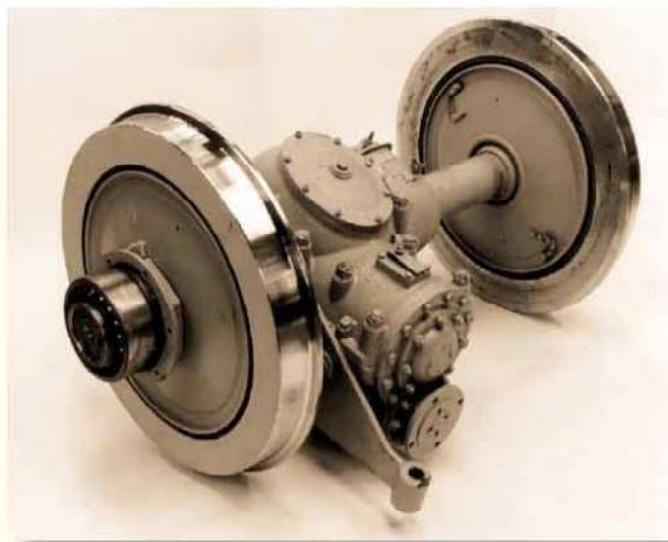


Execution of basic version:

Max. length of workpiece:	500 mm
Min. and Max. diameter of workpiece:	3 – 220 mm
Revolutions of regulating wheel:	5 – 800 rpm
Grinding wheel drive power:	71 kW
Weight:	19 200 kg



SPECIAL EXAMPLES OF MACHINING LATHE FOR MACHINING OF RAILWAYS AXLES





EXAMPLES OF SPECIAL ORDERS OF LATHES

The lathe SU 125 Belaz (Belorussia) with hardened flat guideways.

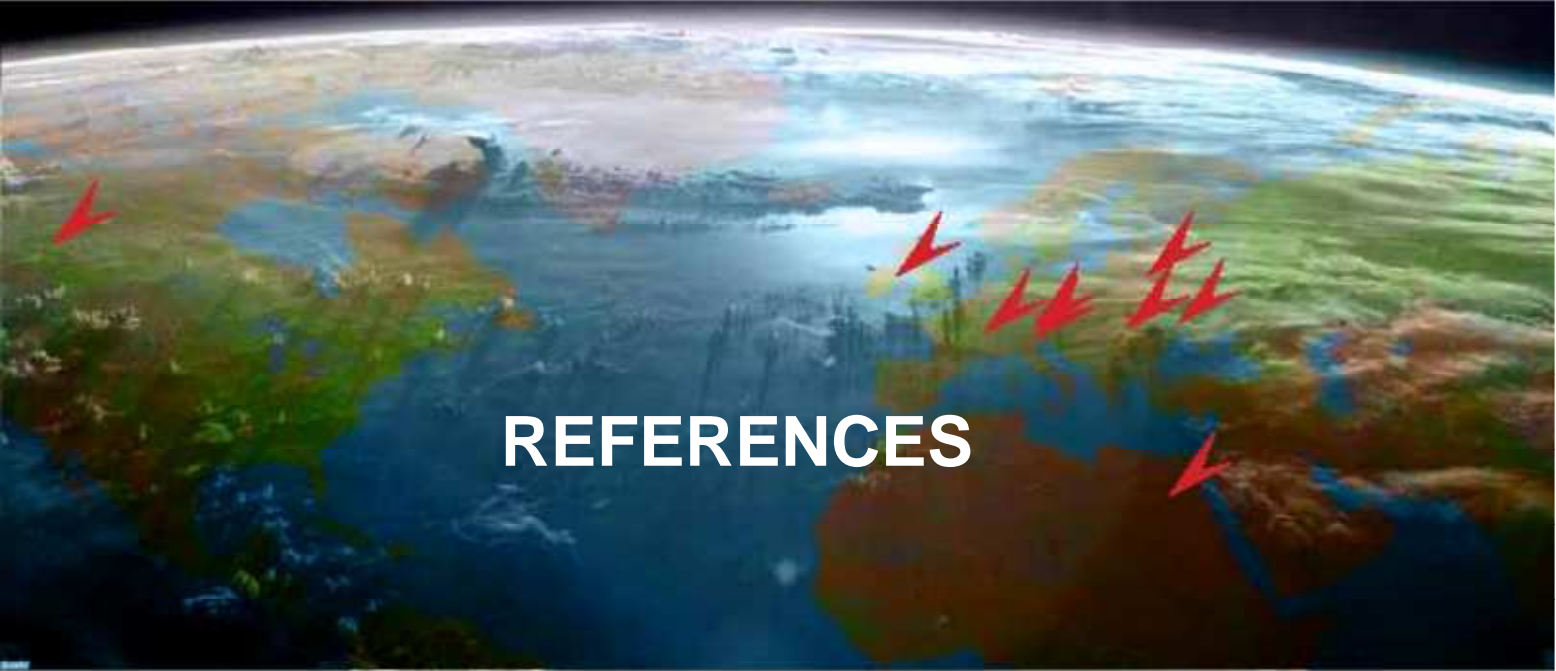
The lathe is equipped with control system SIEMENS 840 D and digital drives of co. SIEMENS.





GEAR HOBGING MACHINES OFA CNC





REFERENCES



Austria	ENGEL
Belarus	GOMSELMAŠ
Belorus	BELAZ
Canada	HAVLIK GEAR
Canada	UNIGEAR
Canada	DORSSERS
Canada	ONTARIO CHROMIUM PLATING
Czech republic	ŠKODA MLADÁ BOLESLAV
Czech republic	ŠKODA MACHINE TOOL
Germany	DEUTSCHE BAHN
Germany	THYSSENKRUP
Germany	INA SCHAFLER
Germany,	USA BOTCHER
Germany	BETZCHROM
Germany	KRAUS MAFEI
Egypt	SUEZ CANAL AUTHORITY
Ireland	IRISH RAILWEIS
Russia	MMK Magnitogorsk
Russia	OKBM
Russia	URALSKIE MOTORY
Russia	UVZ
Russia	NKMZ
Venezuela	PDV SA
Ukraine	JUŽMAŠ

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