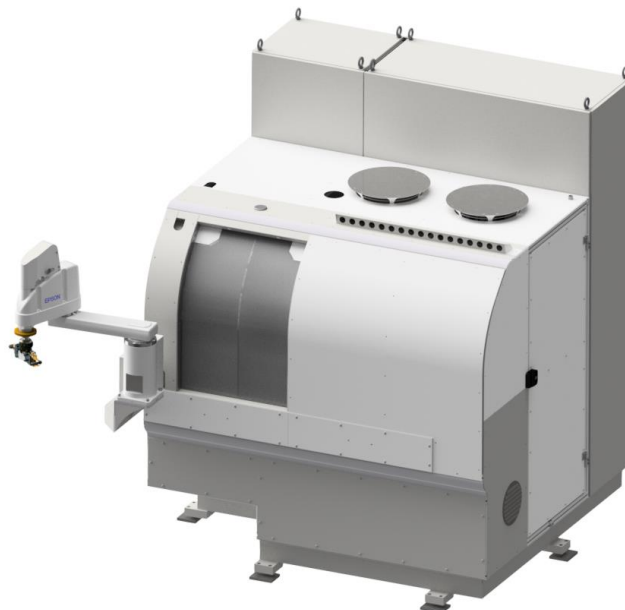




## **BBL-2-18** Balak Ball Joint Lathe | 2-axis | 18.5 kW

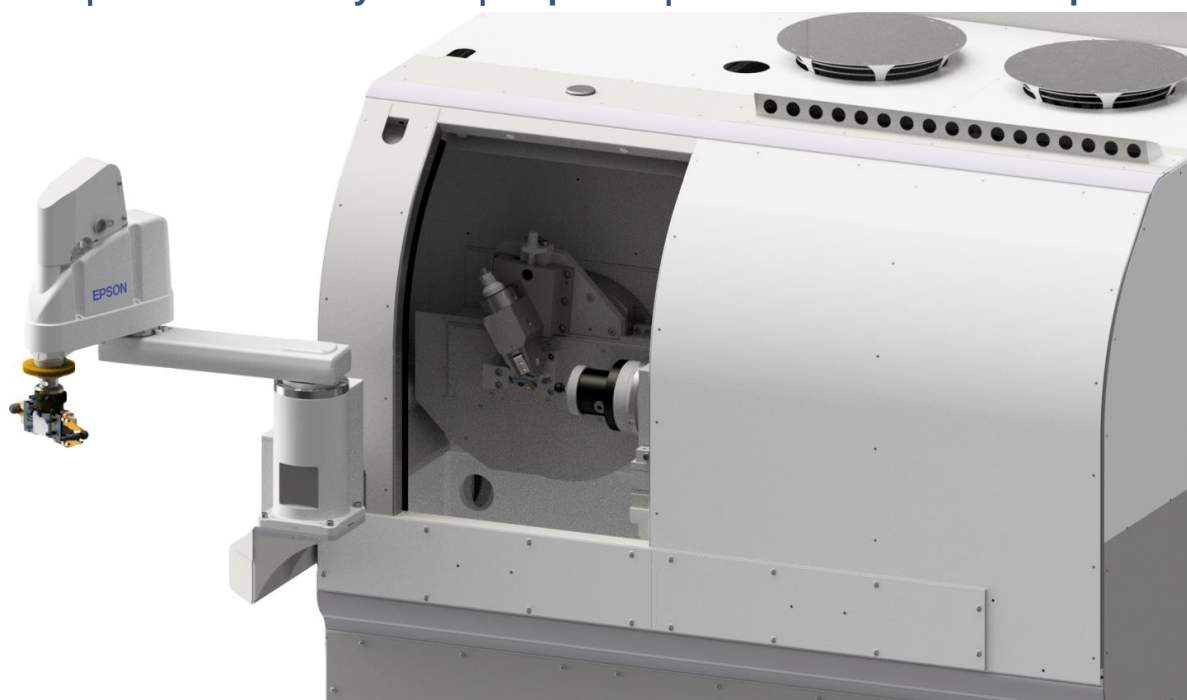


The ball joint lathe was designed specifically for high production and high precision machining requirements. This special lathe can be used for turning and roller burnishing of round ball-shaped parts of shaft components. Compact, easy and quick to set up machine features a wide range of available options to customize your machine to your exact needs, including additional cross slide or workpiece loading and unloading automation.

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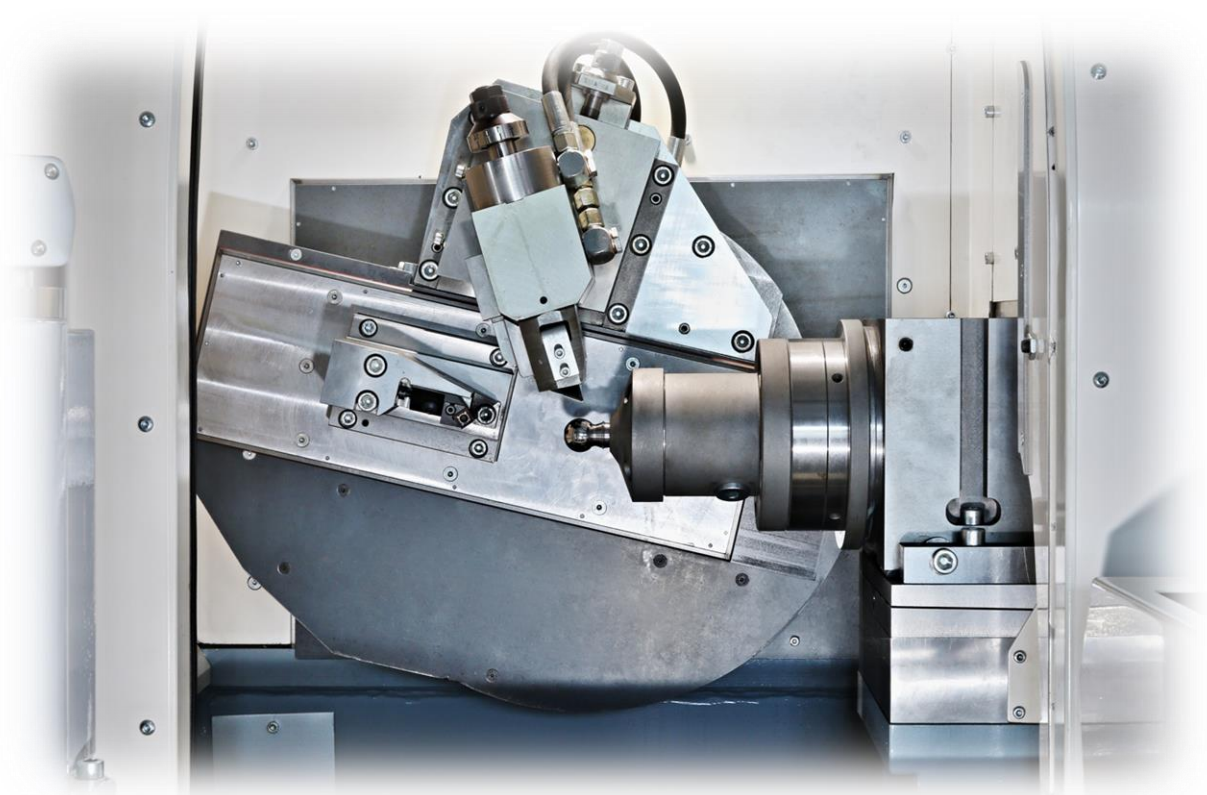
**Key features:**

**2-axis | 1 vertical rotary table | 1 spindle | 1000+ customization options**

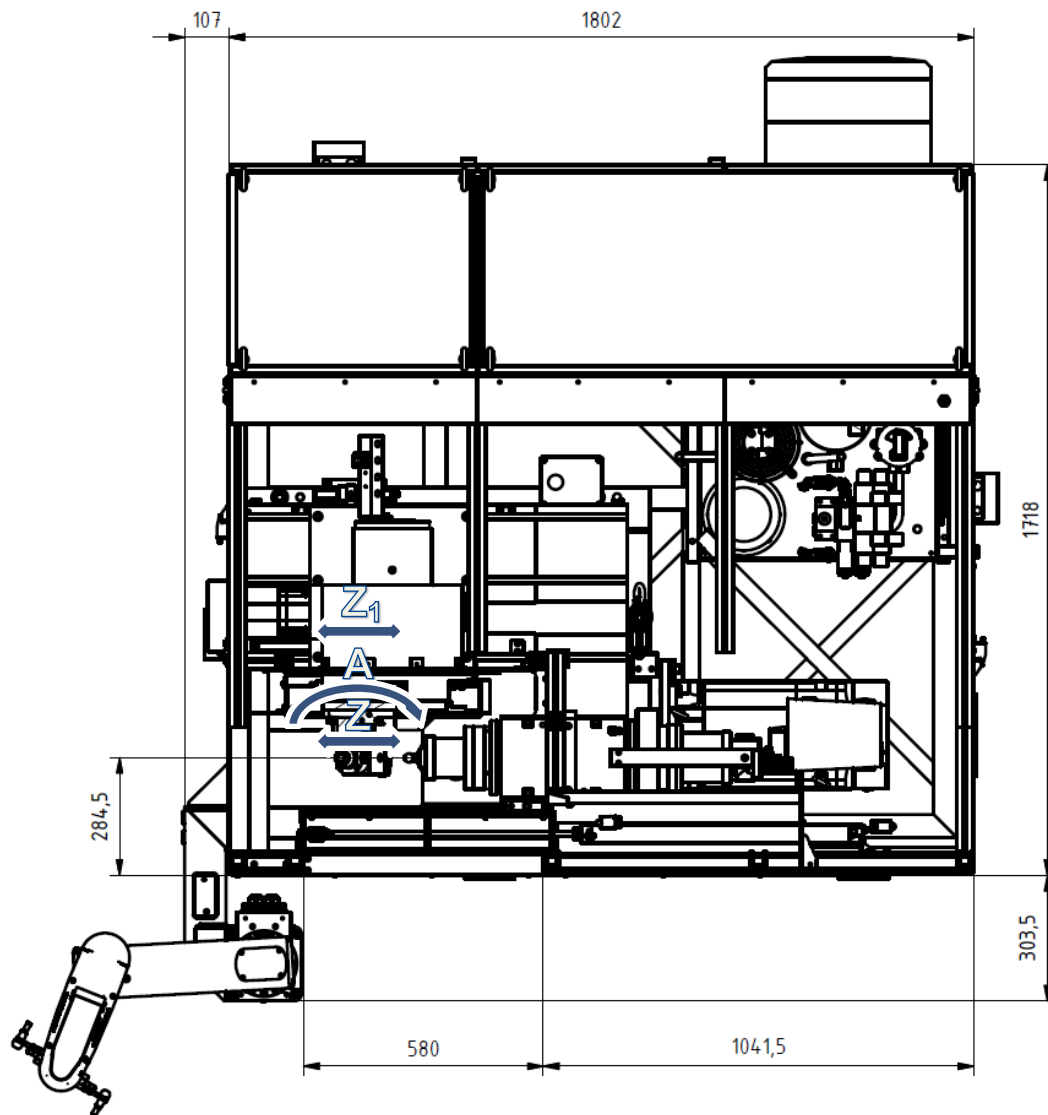




Example of a past project:



**Balak stroje Tisnov s.r.o.**  
**Cerveny Mlyn 380**  
**666 01 Tisnov**  
**Czech republic**



Specs	Metric
CNC Axis	2
CNC Rotary Tables	1
CNC Spindles	1
CNC Travels Z/A	75/140°
Manually adjustable Travels Z <sub>1</sub>	130
Spindle Drive	Siemens 1PH8-135
Power	18.5 kW
Spindle Torque	157 N.m
Gear Ratio	1.3
Spindle Interface	Collet
Burnishing Roller	✓
Machining Conditions Optimization	✓
Automatic / Manual Mode	✓
System	Siemens SINUMERIK ONE
HMI	Control Touch Screen
Additional Control Board	opt
Remote Control Pendant	opt
Hydraulic Power Unit for Clamping and Burnishing	✓



Rated Pressure – Hydraulics	4 MPa
Hydraulic Circuits	2
Hydraulic Circuits Option	3/4/5/6 (opt)
Chip Conveyor	opt
Liquid Cooling with Fluid Filtration	opt
Rated Pressure – Flood Coolant Pump	0.6 MPa (opt)
Water Gun for Cleaning	opt
Mist Collector	opt
Air Blast System	opt
Window Air Blast System	opt
Automatic Lubrication System	✓
Enclosure Air Conditioner	opt
Machine Dust-Proof Design	opt
High-Intensity Lighting	✓
Camera and Screen	opt
Automatic Doors	✓
Manually Open Doors	opt
Stack Light	✓
Machine Covers	✓
Ethernet Interface	✓
Remote monitoring – LAN connected	✓
Remote monitoring – SIM connected	opt
Metric Design	✓
Machine Labels – Czech	✓
Machine Labels – English / other languages	opt
Instruction Manual printed and digital – Czech	✓
Instruction Manual printed and digital – English / other languages	opt
Spare Parts Drawings	✓
EU declaration of conformity	✓
CE Label	✓
Risk analysis	✓
Operator Training, Programming Training	6 hrs
Maintenance Training	6 hrs
Standard Warranty	24 mos
Extended Warranty	opt
Warranty Repair Start – Czech republic	within 48 hrs (w/d)
Warranty Repair Start – EU / other countries	opt
Post Warranty Repair Start – CZE / EU / other countries	opt
Workpiece Handling – robotic / pneumatic	opt
Workpiece Feeder	opt
Automated Bin-picking	opt
Safety Fencing with Safety Handle Module	opt
Safety Light Curtains	opt
Customization	opt

✓ – Standard Equipment, **opt** – Optional Equipment

