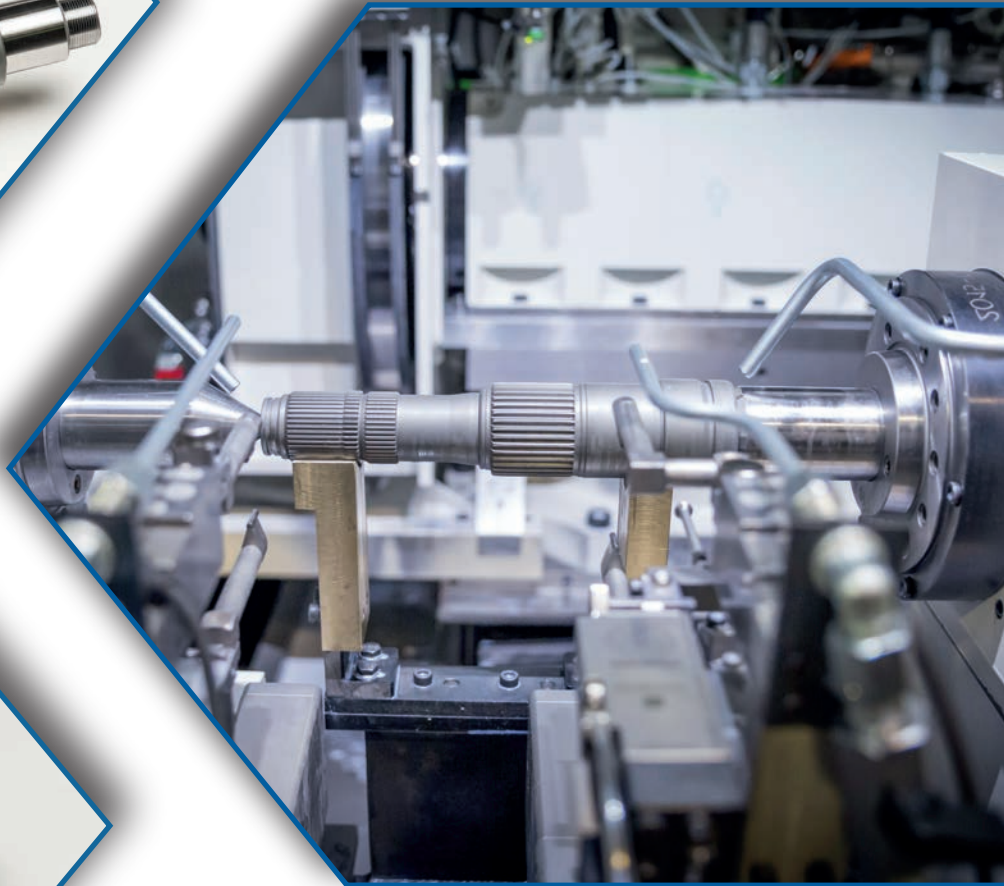




The specialist in cylindrical grinding

Shafts

Universal Production



GST has developed a wide variety of **highly productive** universal machines for serial grinding, entirely **flexible** and focused on customer requirements. Leading manufacturers already use our machines in **continuous operation**.

Universal grinding machines for Shafts

Grinding

Diameters

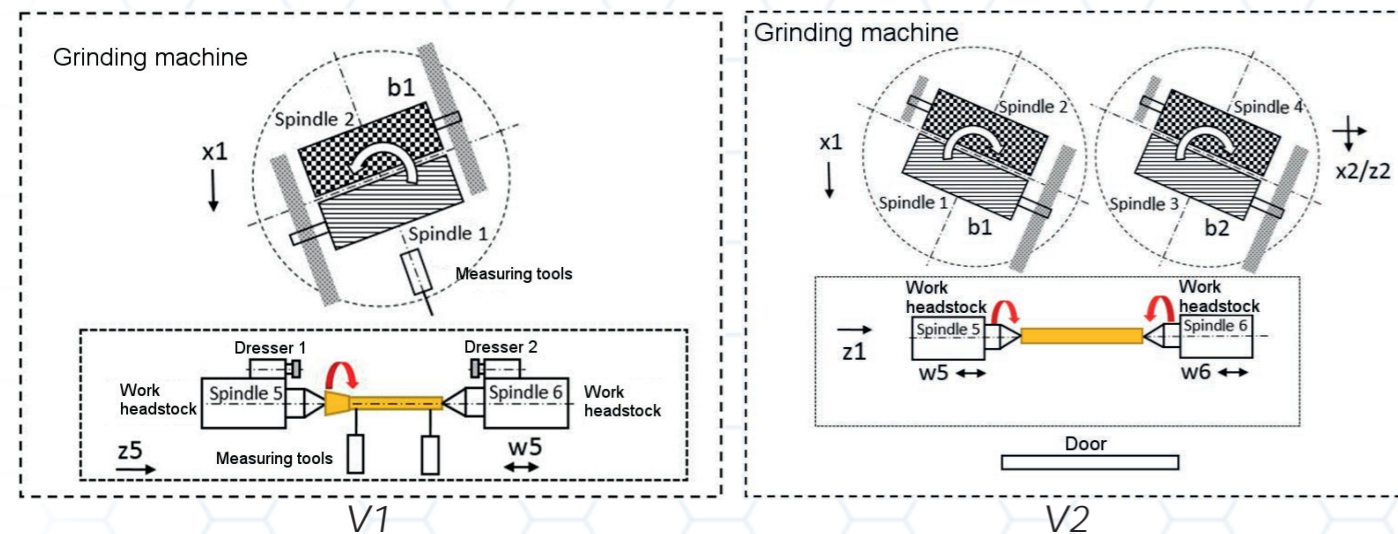
Plane surfaces

Grooves

Universal swivelling machine for shaft production (COMPLETE UNIVERSAL CBN). Complete machining of the shaft in a single clamping set-up. Swivel axis with 2 grinding stations for alternating operation. Workpiece drive via 2 driven center points (speed-synchronously coupled) For the grinding of: Diameters, plane surfaces and grooves in a single clamping set-up

Data:

- Axes with linear drive and linear measuring system
- Universal production of shafts
- Machine designed for emulsion or oil
- Vitrified CBN and/or electroplated CBN grinding wheels
- NC swivel drive
- Max. wheel width 200mm

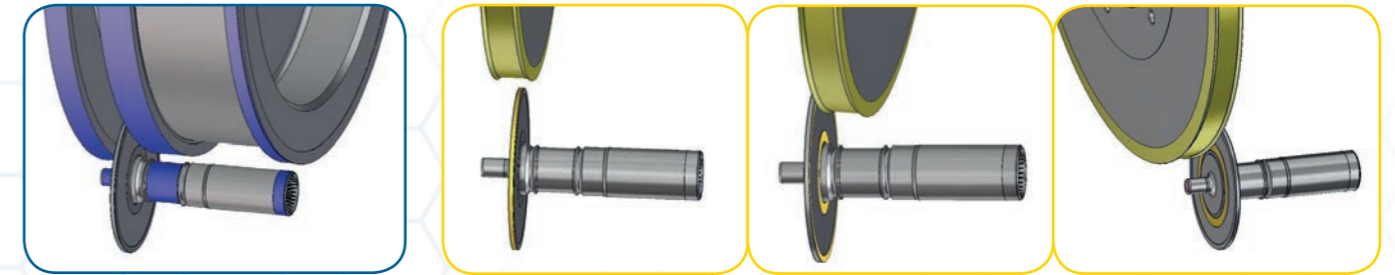


Advantages of flexible manufacturing

- Easy retooling
- Combined tools
- 2 grinding wheels
- Spindle arrangement: 180° or V arrangement,
- Axes: B, X/Z Compound slide, W5
- 2 driven center points (workpiece drive)
- Measuring probes for diameter and linear position
- One dresser per grinding wheel, mounted on the machine table
- Cylindricity compensation via tailstock or NC B-axis
- Suitable for corundum or CBN grinding wheels
- GST Loading system

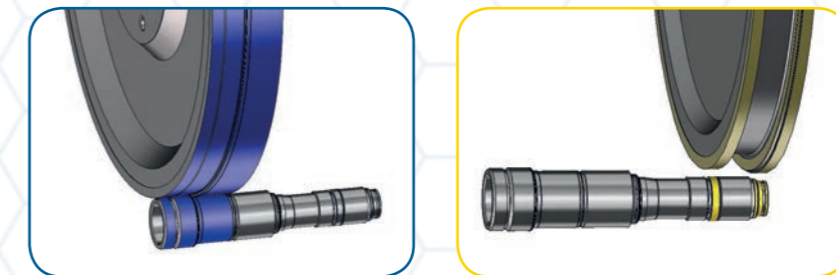


Shaft 1



Machining Wheel 1: diameter (wheel width 200mm)
Machining Wheel 2: different shoulders and diameters

Shaft 2



Machining Wheel 1 & 2: Diameter

GST Machine features

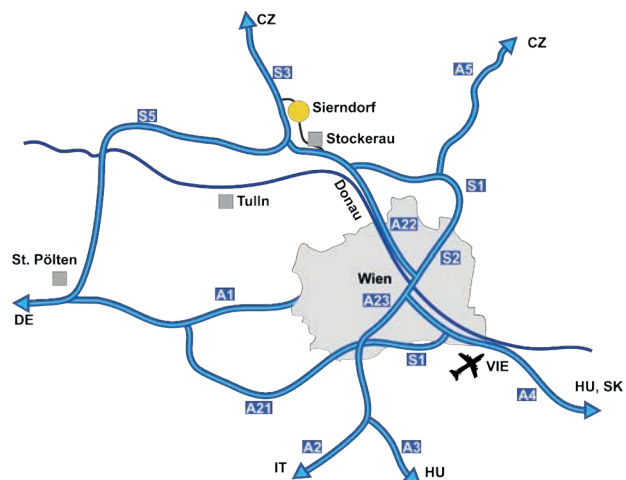
- Complete machining in a single clamping set-up
- Full CNC control of all axes
- Automatic process measurement incl. cylindricity compensation
- Solid grinding spindle with roller bearings
- Linear drive technology of the highest precision
- Compound-slide configuration (depending on requirements)
- Feed slides with recirculating roller guides
- Self-centering steady rests (depending on requirements)
- Coolant: emulsion or oil
- High energy efficiency due to compact design
- Short set-up times due to wheel changing devices, automatic set-up and automatic adjustment of table assemblies
- Stand-alone solution with GST loader and workpiece magazine, or integration into an interlinked system



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