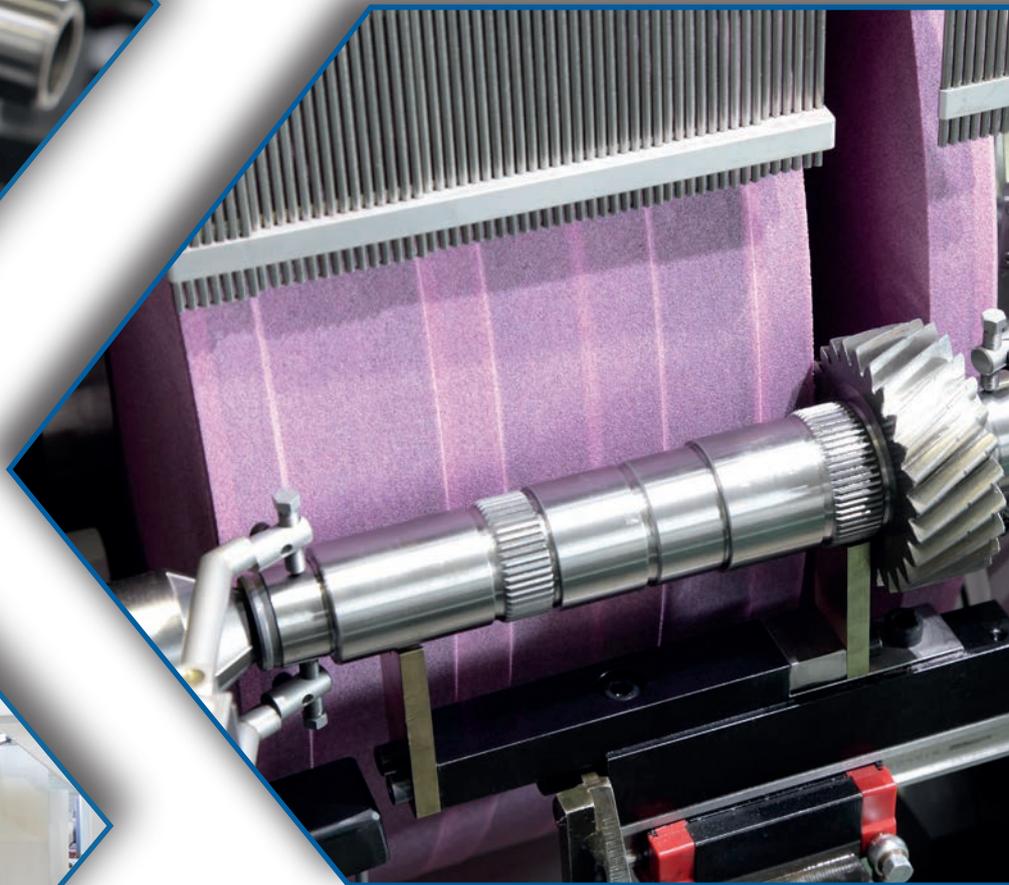
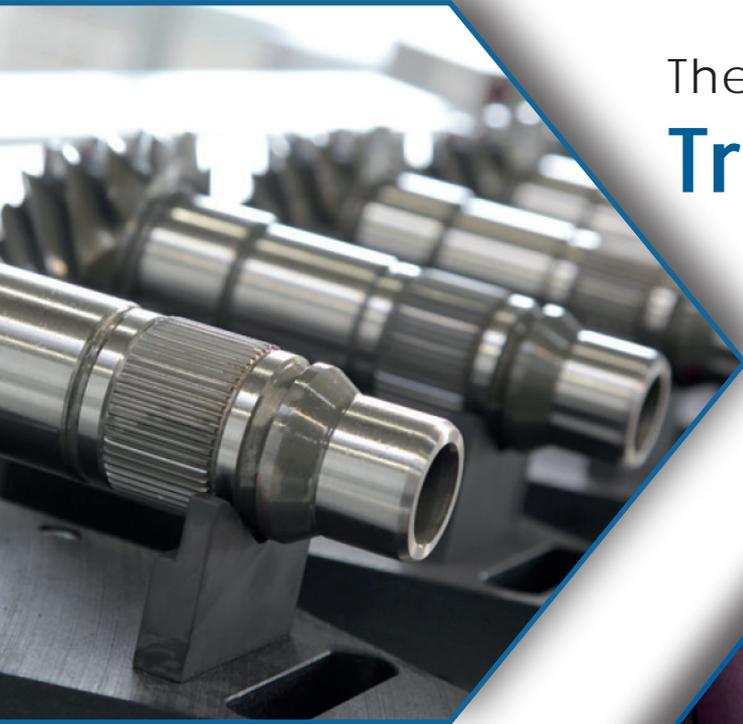




The specialist in cylindrical grinding
Transmission shafts
Line production



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

Grinding machines for
Transmission shafts

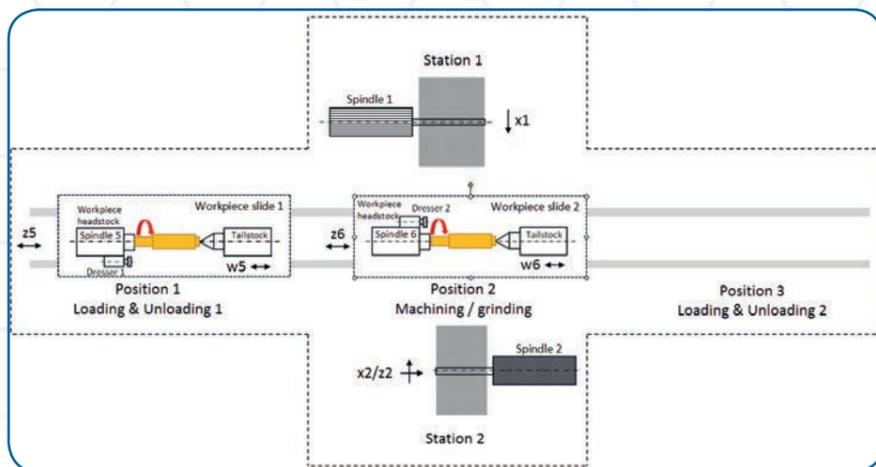
Grinding

- Output shafts
- Input shafts
- Pinion shafts
- Splined shafts
- Countershafts
- Diameters
- Plane surfaces
- Grooves
- Bores

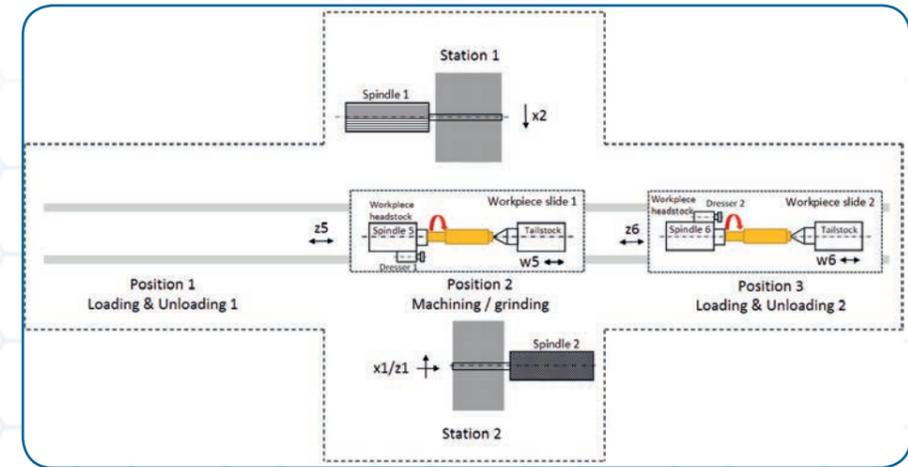
Double Cycle Complete C/CBN

Double-spindle external cylindrical grinder for shaft production (Double Cycle Complete C/CBN). Complete machining of the shaft in 1 single clamping set-up. Double-spindle external cylindrical grinder with 2 work stations (2 slides on the Z-axis) for the grinding of: Diameters, plane surfaces and grooves in a single operation with 0 non-productive times.

- Cycle time 43''=0.72 min = 1,600 parts / day with 80% capacity utilisation
- Non-productive time: 0''
- Axes with linear drive
- Machines designed for emulsion or oil
- Grinding wheel corundum or ceramic CBN: for grinding diameters
- Electroplated CBN wheels: for grinding grooves and plane surfaces
- 2 machining stations



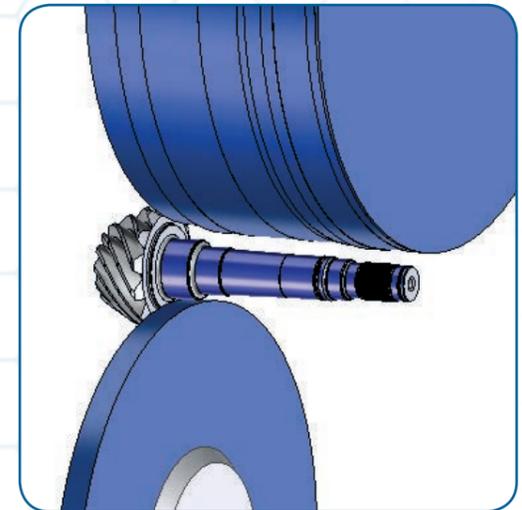
Machining workpiece 1



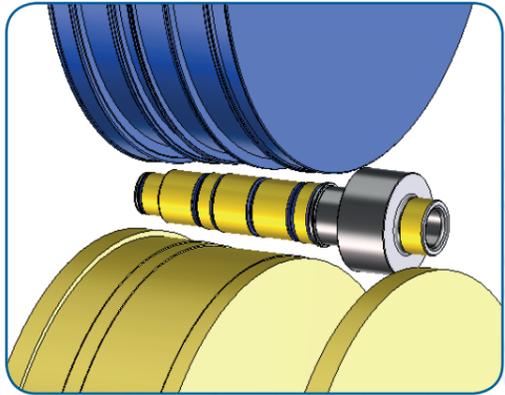
Machining workpiece 2

Complete C/CBN

- Machining of output and input shafts
- Diameters, plane surfaces and grooves in a single clamping set-up
- Complete grinding of the shaft in a single clamping set-up with corundum (diameters) and electroplated CBN wheels (plane surfaces and grooves)
- Highest productivity and top quality - without non-productive times
- Linear drive technology of the highest precision
- Designed for production quantities of up to 1,200 parts/day in 3-shift operation



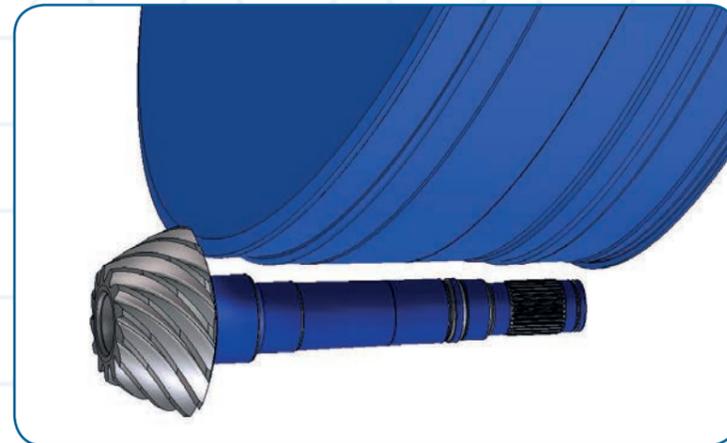
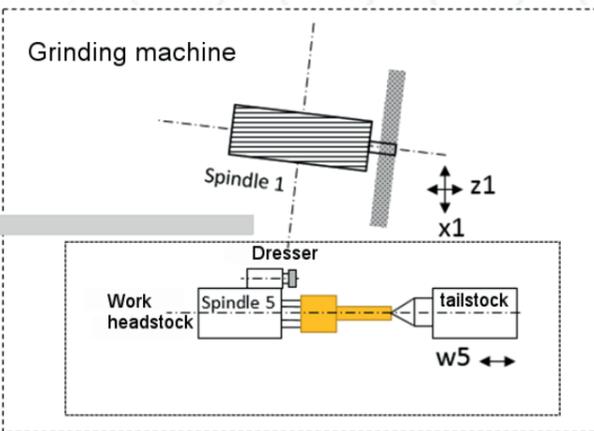
Complete Duo CBN/CBN



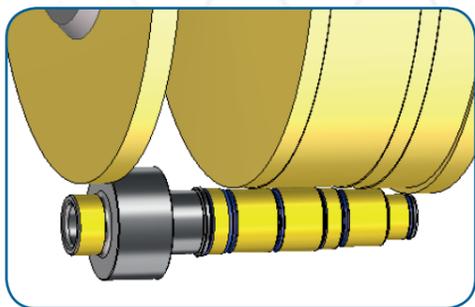
- Machining of output and input shafts
- Diameters, plane surfaces and grooves in a single clamping set-up
- Complete grinding of the shaft in a single clamping set-up with vitrified CBN (diameters) and electroplated CBN grinding wheels (plane surfaces and grooves)
- Designed for production quantities of up to 1,400 parts/day in 3-shift operation

Complete C

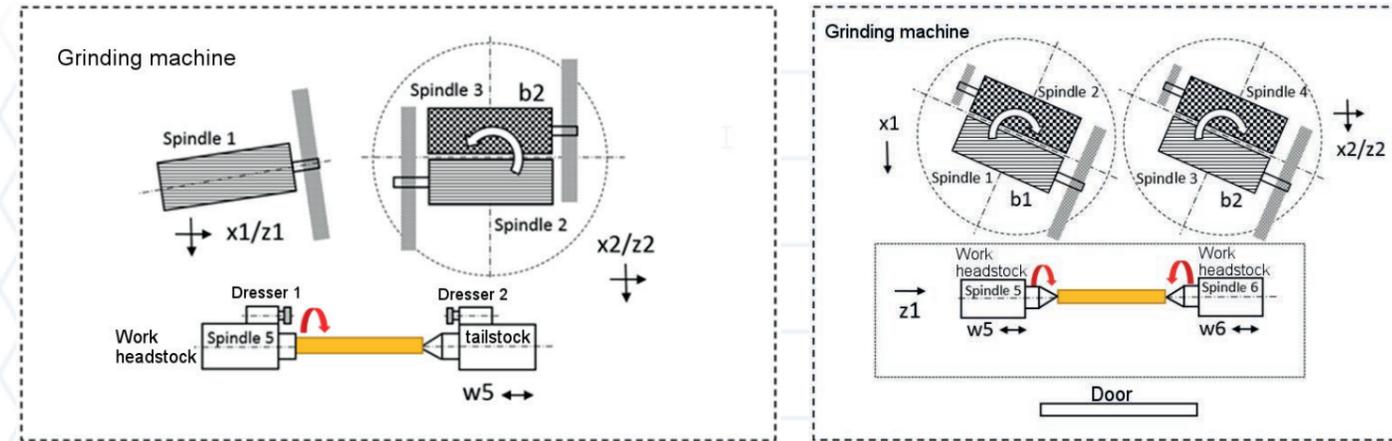
- Machining of output and input shafts
- Diameters and plane surfaces by straight and angular infeed grinding in a single clamping set-up
- Complete grinding of the shaft in a single clamping set-up with corundum grinding wheels
- Designed for production quantities of up to 1,200 parts/day in 3-shift operation



Complete Universal Duo CBN



- Machining of output and input shafts
- Diameters, plane surfaces and grooves in a single clamping set-up
- Complete grinding of the shaft in a single clamping set-up with 3 grinding wheels
- Designed for production quantities of up to 1,100 parts/day in 3-shift operation



GST Machine features

- Complete machining in a single clamping set-up
- Full CNC control of all axes
- Automatic process measurement incl. cylindricity compensation
- Solid GST grinding spindles 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

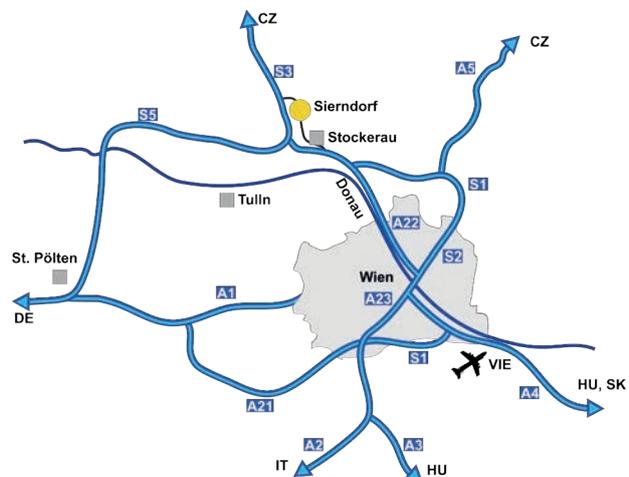




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