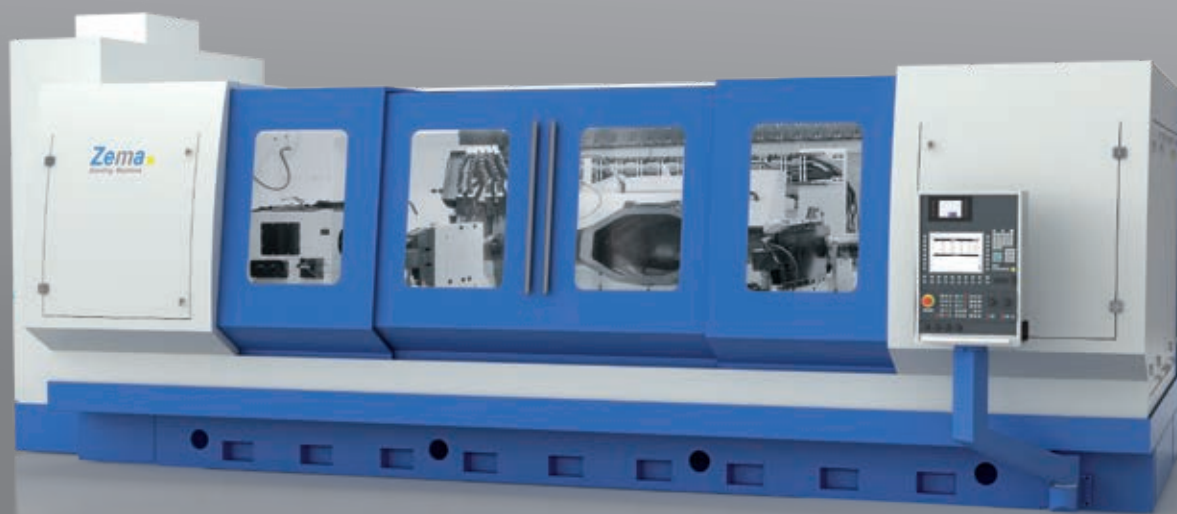
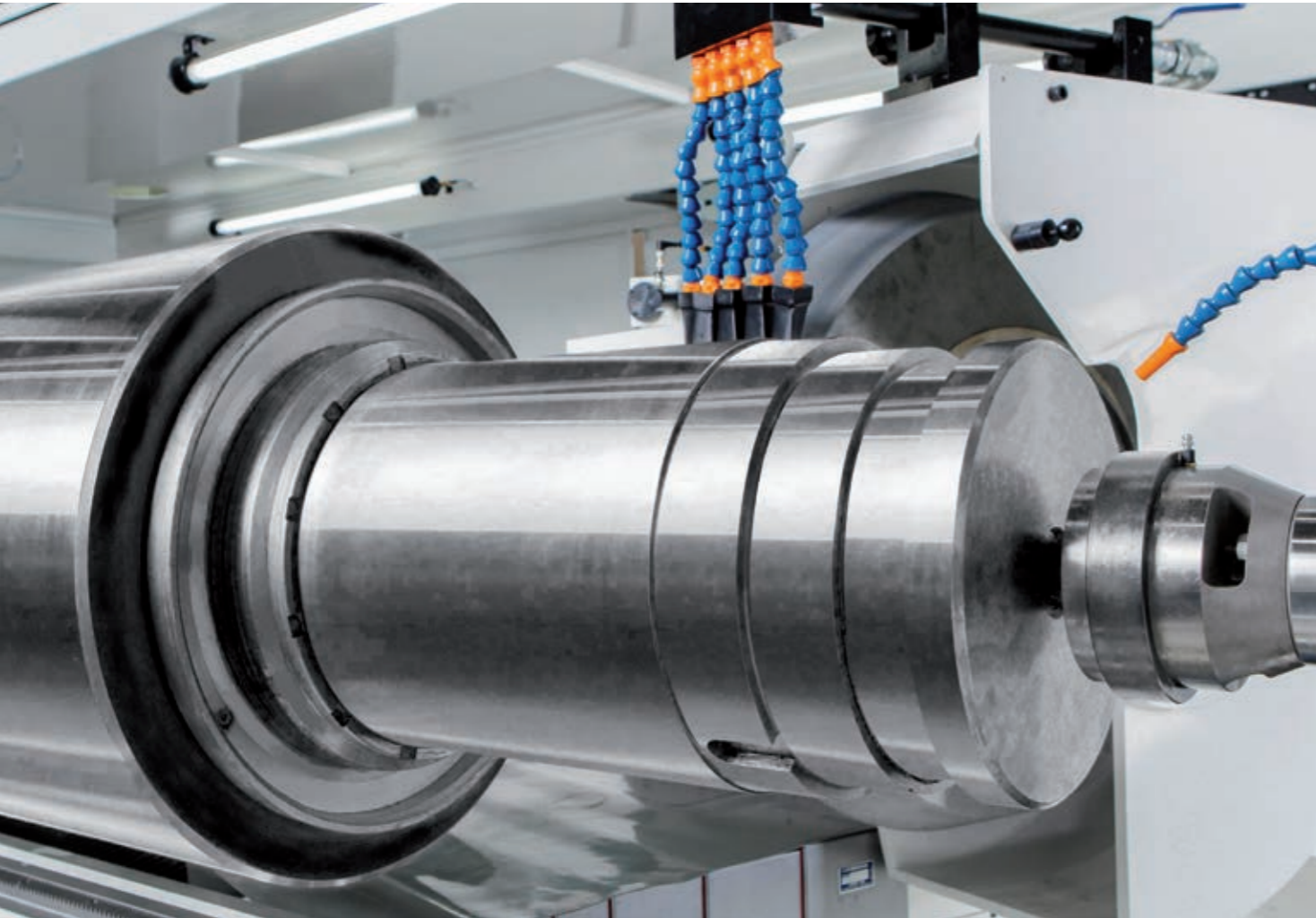


KARGO

CYLINDRICAL GRINDING



HEAVY SHAFTS EASILY GROUND



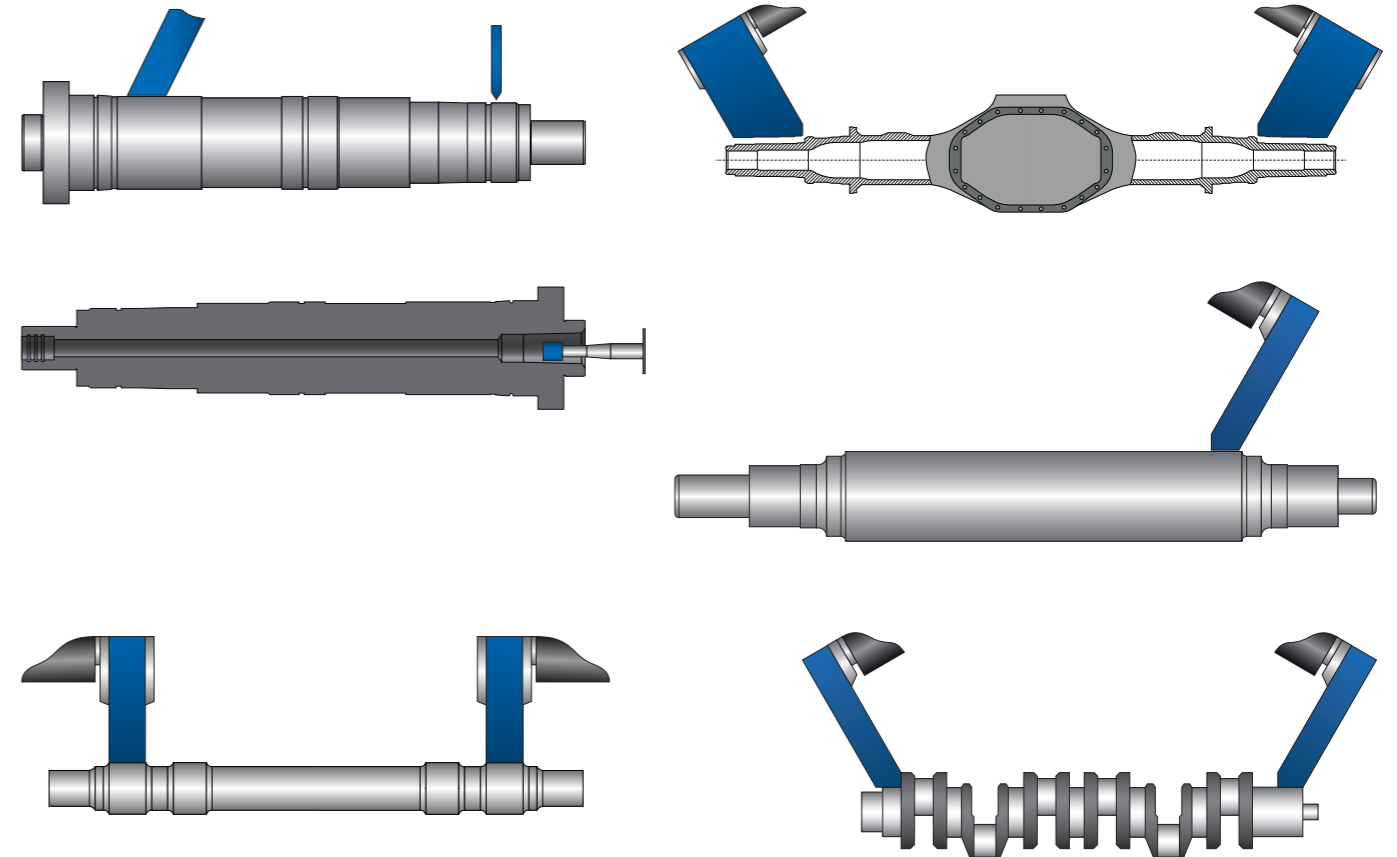
Up to 4.5 meters long and weighing several tons – the KARGO series tirelessly masters grinding shafts of this size. The various sizes and wheelhead versions make this machine ideal for grinding external and internal diameters as well as faces, threads, and tapers on heavy workpieces.

OPERATION

ADVANTAGES

- Precise grinding with corundum
- Designed for heavy and long workpieces
- Robust machine bed with full-protection hood
- CNC control system with user-friendly interface
- High dimensional accuracy thanks to various measuring systems
- Recording of error messages
- Display of the maintenance intervals
- High flexibility due to several wheelhead versions

APPLICATION EXAMPLES



EQUIPMENT

WHEELHEAD

- Hydrostatic or high frequency spindles
- Peripheral speed 63 m/s
- Different wheelhead versions with up to 3 spindles
- Automatic compensation of grinding wheel diameter after dressing
- Integrated balancing system with A.E. sensor

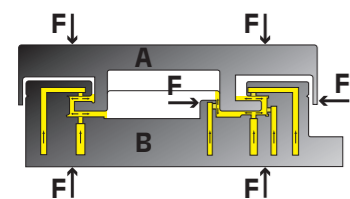


WORKHEAD

- Universal operation with live or dead centers
- Programmable speed
- Offset protection through additional locking of workhead

TAILSTOCK

- Universal operation with live or dead centers
- Automatic monitoring of tailstock pressure
- Electromechanical actuation
- Manual taper adjustment
- Offset protection through additional locking of tailstock



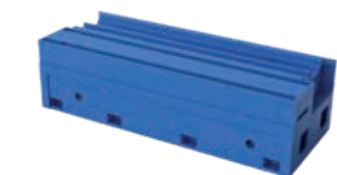
HYDROSTATIC GUIDE

- Use in the X and Z-axis, designed as compound slide rests
- Uniform, jolt-free movement (no stick-slip effect)
- Drive via servomotors with absolute encoders
- High-precision positioning for precise grinding results

A – Moving slide / B – Fixed guide / F – Force applied

DRESSING UNIT

- Single-grain diamond or dressing fleece
- Rotating dressing
 - diamond dressing disc
 - profiled diamond roll



MACHINE BED

- With gray cast iron design
- High torsional rigidity and good damping behavior
- Ingenious bed rinsing system ensuring a high thermal stability

MEASURING

- Measurement systems are adapted to the workpieces and customer specifications
- In-process measurement device for measuring smooth or interrupted external diameters
- Absolute measuring gauge for pre-/in-/post process measuring of multiple diameters



POSITIONING

- Automatic recording of reference surfaces on the clamped workpiece through bidirectional positioner
- Recorded values are automatically integrated into the grinding process
- Retractable integration on the wheelhead
- Touch-trigger probe for precise workpiece detection

CONTROL SYSTEM

- Choose from Fanuc or Siemens
- Easy programming, installation and operation of the machine thanks to the established JUWOP software
- Ergonomic machine setup through the machine control in a pivotable and movable control panel
- Comfortable electronic set up of the machine with an external programming assistant



OPTIONS

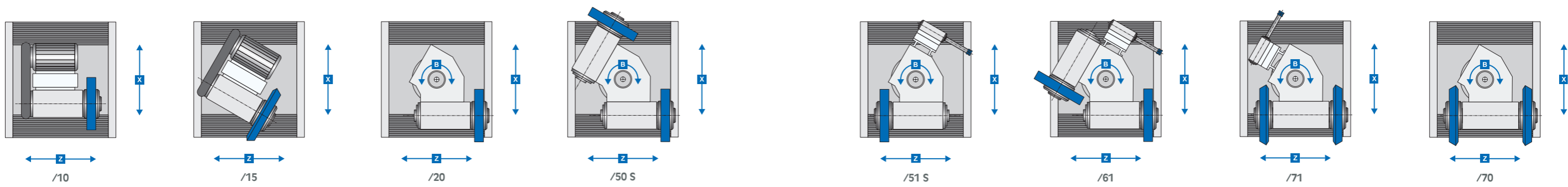
- Steadies
- Post-process measuring system
- NC displacement of workhead and tailstock
- Quick setup with automatic clamping of workhead and tailstock
- Exhaust-air purification systems from LTA
- Coolant systems

TECHNICAL DATA



PLATFORM	5S		5L		5XL		20S		20L		20XL		
NUMBER OF WHEELHEADS	1	1	2	1	2	1	1	2	1	2	1	2	
GRINDING LENGTH	2.500 mm	3.500 mm	2.500 mm	4.500 mm	3.500 mm	2.500 mm	3.500 mm	2.500 mm	4.500 mm	3.500 mm	2.500 mm	3.500 mm	
CLAMPING LENGTH	2.600 mm	3.600 mm		4.600 mm		2.600 mm	3.600 mm		4.600 mm		2.600 mm	3.600 mm	
CENTER HEIGHT	430 mm			430 mm			430 mm			430 mm			
PERIPHERAL DIAMETER	850 mm			850 mm			850 mm			850 mm			
WORKPIECE WEIGHT	500 kg	500 kg	500 kg	500 kg		500 kg		2.000 kg	2.000 kg	2.000 kg	2.000 kg		
GRINDING WHEEL DIAMETER	760 / 915 mm			760 / 915 mm			760 / 915 mm			760 / 915 mm			
OUTPUT OF GRINDING WHEEL MOTOR	40 / 70 kW			40 / 70 kW			40 / 70 kW			40 / 70 kW			
GRINDING WHEEL WIDTH	250 / 300 mm			250 / 300 mm			250 / 300 mm			250 / 300 mm			
CNC CONTROL SYSTEM	Fanuc / Siemens			Fanuc / Siemens			Fanuc / Siemens			Fanuc / Siemens			
W X D X H (WITHOUT PERIPHERALS)	4.160 x 3.150 x 2.565 mm	5.160 x 3.150 x 2.565 mm		6.160 x 3.150 x 2.565 mm		4.160 x 3.150 x 2.565 mm	5.160 x 3.150 x 2.565 mm		6.160 x 3.150 x 2.565 mm		4.160 x 3.150 x 2.565 mm	5.160 x 3.150 x 2.565 mm	
TOTAL WEIGHT OF MACHINE	17.000 kg	21.000 kg	29.000 kg	25.000 kg	33.000 kg	20.000 kg	26.000 kg	34.000 kg	32.000 kg	40.000 kg	20.000 kg	26.000 kg	34.000 kg

WHEELHEAD VERSIONS



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