

## Machines and Measuring Equipment Capabilities

### TURNING

Machining Capabilities	Lathe 1 with rotating drilling -& milling tools;	Lathe 2 with rotating drilling -& milling tools;	Lathe 3	Lathe 4	GRINDING			MEASURING		
					OD Grinding	ID Grinding	Surface Grinding	Measuring Equipment Capabilities	Three-Axis CMM CNC, tactile	Three-Axis CMM CNC, optical- tactile
Machine	Mori NLX 1500	Mori Seiki 1500/500	Weiler C30	Weiler C50	Koop.*	Koop.*	Koop.*	Machine	Hexagon Global 7/10/7	TESA Visio 300 DCC++
max. Workpiece Length	515 mm	520 mm	750 mm	1000 mm	630 mm		100 mm	max. Workpiece Length	700 mm	300 mm
max. Workpiece Diameter	260 mm	210 mm	155 mm	355 mm	200 mm	100 mm	350 mm	max. Workpiece Width	1000 mm	200 mm
max. Workpiece Width								max. Workpiece Height	660 mm	150 mm
max. Workpiece Height								max Workpiece Weight	900 kg	16 kg
max Workpiece Weight	50 kg	50 kg	20 kg	100 kg	75 kg	75 kg	150 kg	xyz Uncertainty	0,0015 mm (+L/333)	0,003 mm(+L/100)
Precision	0,005 mm	0,005 mm	0,02 mm	0,02 mm	IT4	IT4	IT5	Dimensional Accuracy	0,0025 mm (+L/333)	0,0045 mm(+L/100)

\* achieved in cooperation with selected partners

### MILLING

Machining Capabilities	Mill 1 max. 5 -Axis	Mill 2a max. 5 -Axis	Mill 2b w/o swivel or tilt	Mill 3 max. 3 -Axis	Mill 4 max. 5 -Axis	Mill 5 max. 3 -Axis	Mill 6a max. 5 -Axis HSC	Mill 6b max. 3 -Axis HSC	Mill 7 max. 3 -Axis HSC	MEASURING	
										Measuring Equipment Capabilities	Surface Roughness
Machine	WEMAS VZG 65_5A	DMU 50eVolution	DMU 50eVolution	Hermle C600U	DMU 50	DMC 1035V	Hermle C20	Hermle C20	Chiron FZ08K		Hommel Tester
max. Workpiece Length	600 mm	300 mm	500 mm	600 mm	500 mm	1035 mm		400 mm	450 mm	Traverse Length	1,5 mm 4,8 mm 15 mm
max. Workpiece Diameter	500 mm						200 mm			Evaluation Length	1,25 mm 4 mm 12,5 mm
max. Workpiece Width	500 mm	300 mm	420 mm	450 mm	450 mm	560 mm		350 mm	270 mm	Measurement Range	+/- 0,04mm
max. Workpiece Height	460 mm	300 mm	380 mm	450 mm	400 mm	510 mm	300 mm	300 mm	310 mm	min. Display Value	0,02 Ra
max Workpiece Weight	300 kg	80 kg	80 kg	80 kg			80 kg	80 kg	80 kg		
Precision	0,01 mm	0,01 mm	0,01 mm	0,01 mm	0,008 mm	0,03/0,008 mm	0,008 mm	0,008 mm	0,008 mm		