

No.	BRAND	MODEL	TRAVEL AXIS (MM)	TECHNICAL SPECIFICATIONS
2	DMGMORI	DMU50 + PH150/8	Travel on X axis 650 mm Travel on Y axis 520 mm Travel on Z axis 475 mm	CNC HEIDENHAIN TNC 640i with continuous 5 axes positioning with linear motor on X axis and angle of working up to 108° Automatic handling pallet Erowa PH150/8 3D Heidenhain Touching probe TS649 Electric spindle speed: 18.000 round/min Drive power 28KW Rapid traverse on x, y, z axis: speed=42 m/min Tool Magazine n°120 tools with double rapid clamping pinch Blum Laser brake tool control
2	DMGMORI	DMU75 Monoblock	Travel on X axis 750 mm Travel on Y axis 650 mm Travel on Z axis 560 mm	CNC HEIDENHAIN TNC 640 with continuous 5 axes positioning 3D Heidenhain Touching probe TS649 Electric spindle speed: 18.000 round/min Drive power 35KW Rapid traverse on x, y, z axis: speed=40 m/min Tool Magazine n°60 tools with double rapid clamping pinch Blum Laser brake tool control
1	GF	HEM500	Travel on X axis 500 mm Travel on Y axis 450 mm Travel on Z axis 400 mm	CNC HEIDENHAIN TNC 530i with continuous 5 axes positioning -65 /+110 A axis WorkPal System 3R Dynafix Renishaw Touching probe 40,01-Mini Electric spindle speed: 20.000 round/min Drive power 20KW Rapid traverse on x, y, z axis: speed=30 m/min Tool Magazine n°60 tools with double rapid clamping pinch Blum Laser brake tool control

No.	BRAND	MODEL	TRAVEL AXIS (MM)	TECHNICAL SPECIFICATIONS
2	GF	HPM450	Travel on X axis 600 mm Travel on Y axis 450 mm Travel on Z axis 450 mm	CNC HEIDENHAIN TNC 530i with continuous 5 axes positioning +120°/+120° A axis 5 position handling pallets 280x280 mm, Dynafix Renishaw Touching probe 40,01-Mini Electric spindle speed: 20.000 round/min Drive power 30KW Rapid traverse on x, y, z axis: speed=22 m/min
1	GF	VCE1000PRO	Travel on X axis 1020 mm Travel on Y axis 560 mm Travel on Z axis 600 mm	Vertical milling Machine Center CNC HEIDENHAIN TNC 620 with 3 axes Renishaw Touching probe 40,01-Mini Electric spindle speed: 16.000 round/min Drive power 14,75KW Rapid traverse on x, y, z axis: speed=40 m/min Tool Magazine n°40 tools with double rapid clamping pinch Blum Laser brake tool control
1	DMGMORI	DMC65 Monoblock	Travel on X axis 650 mm Travel on Y axis 650 mm Travel on Z axis 560 mm	CNC HEIDENHAIN TNC 530i with continuous 5 axes positioning 3D Heidenhain Touching probe TS649 Electric spindle speed: 18.000 round/min Drive power 28KW Rapid traverse on x axis: speed=80 m/min ac=10 m/s ² Rapid traverse on y and z axis: speed=50 m/min ac=10 m/s ² Tool Magazine n°90 tools with double rapid clamping pinch 3 handling pallets 500x500 mm Blum Laser brake tool control

No.	BRAND	MODEL	TRAVEL AXIS (MM)	TECHNICAL SPECIFICATIONS
5	DMGMORI	DMU50EVO Linear	Travel on X axis 500 mm Travel on Y axis 450 mm Travel on Z axis 400 mm	CNC HEIDENHAIN TNC 530i with continuous 5 axes positioning with linear motor on X axis and angle of working up to 108° 3D Heidenhain Touching probe TS641 Electric spindle speed: 18.000 round/min Drive power 28KW Rapid traverse on x axis: speed=80 m/min ac=10 m/s2 Rapid traverse on y and z axis: speed=50 m/min ac=10 m/s2 Tool Magazine n°60 tools with double rapid clamping pinch Blum Laser brake tool control
1	DMGMORI	DMC835V	Travel on X axis 835 mm Travel on Y axis 510 mm Travel on Z axis 510 mm	Vertical milling Machine Center CNC HEIDENHAIN TNC 530i 3D Heidenhain Touching probe TS641 Electric spindle speed: 14.000 round/min Drive power 19KW Rapid traverse: speed=30 m/min
1	DMGMORI	DMU80P Duoblock	Travel on X axis 800 mm Travel on Y axis 800 mm Travel on Z axis 800 mm	CNC HEIDENHAIN TNC 530i with continuous 5 axes positioning 3D Heidenhain Touching probe TS641 Electric spindle speed: 18.000 round/min Drive power 28KW NC-controlled swivel milling head 0-190 degrees NC-controlled rotary table Ø900 x 700 Rapid traverse on x, y, z axis: speed=60 m/min ac=10 m/s2 Tool Magazine n°120 tools with double rapid clamping pinch Coolant through the spindle core with 40Bar pressure Blum Laser brake tool control

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1	DMGMORI	DMU80T	Travel on X axis 880 mm Travel on Y axis 630 mm Travel on Z axis 630 mm	CNC HEIDENHAIN TNC 530i with continuous 5 axes positioning Tool clamping head traverse CN 103° with digital moving system and upper CN table; 3D Heidenhain Touching probe TS640 Electric spindle speed: 18.000 round/min Drive power 28KW Rapid traverse: speed=30 m/min ac=8 m/s ² Tool Magazine n°60 tools
2	DMGMORI	DMU70EVO	Travel on X axis 750 mm Travel on Y axis 600 mm Travel on Z axis 520 mm	CNC HEIDENHAIN TNC 530i with continuous 5 axes positioning 3D Heidenhain Touching probe TS641 Coolant through the spindle core with 40Bar pressure Electric spindle speed: 18.000 round/min Drive power 28KW Rapid traverse: speed=50 m/min ac=8 m/s ² Tool Magazine n°60 tools



TURNING LATHES



N°	BRAND	MODEL	TRAVEL AXIS (MM)	TECHNICAL SPECIFICATIONS
1	OMG	250	∅250xL=610	Parallel lathe Tool Magazine n°4 tools



VERTICAL MACHINES JIG BORERS



No.	BRAND	MODEL	TRAVEL AXIS (MM)	TECHNICAL SPECIFICATIONS
1	GF	VCE1000PRO	Travel on X axis 1020 mm Travel on Y axis 560 mm Travel on Z axis 600 mm	Vertical milling Machine Center CNC HEIDENHAIN TNC 620 with 3 axes Renishaw Touching probe 40,01-Mini Electric spindle speed: 16.000 round/min Drive power 14,75KW Rapid traverse on x, y, z axis: speed=40 m/min Tool Magazine n°40 tools with double rapid clamping pinch Blum Laser brake tool control
1	DMGMORI	DMC835V	Travel on X axis 835 mm Travel on Y axis 510 mm Travel on Z axis 510 mm	Vertical milling Machine Center CNC HEIDENHAIN TNC 530i 3D Heidenhain Touching probe TS641 Electric spindle speed: 14.000 round/min Drive power 19KW Rapid traverse: speed=30 m/min
1	SIP GENEVOISE	HYDROPTIC 6A	Travel on X axis 1000 mm Travel on Y axis 750mm Travel on Z axis 900 mm	Vertical jig borer with Acurite monitor display

No.	BRAND	MODEL	TRAVEL AXIS (MM)	TECHNICAL SPECIFICATIONS
3	CONCEPT	M2	Travel on X axis 250 mm Travel on Y axis 250 mm Travel on Z axis 370 mm	Fibre Laser 2 x 400 W physical separation of the process chamber and handling chamber laser source and filter technology layer thickness: 20 ÷80 µm production speed: 2÷35 cm3/hour (depending on material / laser power) N°4 powder sieving stations
1	NABERTHERM	model LH 216/13	inner dimensions 600mm x 600mm x 600mm	Furnace Tmax 1300 °C volume 216 litres heat treatment under protective gas (argon)



INSPECTION EQUIPMENT



No.	BRAND	MODEL	TRAVEL AXIS (MM)	TECHNICAL SPECIFICATIONS
1	HEXAGON METROLOGY	GLOBAL	Travel on X axis 900 mm Travel on Y axis 1200 mm Travel on Z axis 800 mm	3D measuring machine with continuous scanning probe Indexing Renishaw head PH10MQ with touching probe SP600M-xe Software: PC-DMIS for Windows + Curve e Surface Precision 2,7+ L/250 um
1	HEXAGON METROLOGY	SCIROCCO	Travel on X axis 1500 mm Travel on Y axis 1000 mm Travel on Z axis 450 mm	3D measuring machine with continuous point-to-point probe Precision 4÷4,5 L/1000 um
1	HEXAGON METROLOGY	ABSOLUTE ARM 8525	Arm 2.5m	3D contact/non-contact portable measurement system 7 axis with RS5 Laser Line Probe Accuracy- $\pm 28\mu\text{m}$ ($\pm 0,001\text{in}$) Scan Rate- Speed 100Hz 7,520 points/line =752,000 points/sec Software PolyWorks Inspector
1	FARO	EDGE SCANARM HD	Arm 1.8m	3D contact/non-contact portable measurement system CAM2 Edge 7 axis with Laser Line Probe HD Accuracy- $\pm 25\mu\text{m}$ ($\pm 0,001\text{in}$) Scan rate- 280 frames/second, 280fps x 2,000 points/line = 560,000 points/sec Software PolyWorks Inspector
1	TAYLOR-HOBSON	FORM TALYSURF S4C	Max Travel 120 mm Vertical range measure 1 mm	3D Profile and roughness tester with inductive transducer; manual and automatic measure Resolution 0.016 x 0.25 μm Software: "Ultra" Surface Finish NT; DynaCADD98; Profile+

No.	BRAND	MODEL	TRAVEL AXIS (MM)	TECHNICAL SPECIFICATIONS
1	ALPA	LA440 Moto	Evaluation length X: 220mm (8.66 inch) Column: Positioning column of 320 mm (12.6 inch) Measuring range Z: 50mm (2.36 inch) measure + 10mm positioning	CNC motorized column profilometer with inductive transducer; manual and automatic measure Sampling interval: 0.5µm (0.02 µinches) Axis Z resolution: 0.1µm (0.008 µinches) Positioning speed: 0 - 10mm/s (0 - 0.4 inch/s) Measuring speed: 0.2 - 0.5 - 1 - 2mm/s (0.008-0.2-0.04-0.08 inch/s) User can modify speed from 0.1 to 2mm/s with 0.1mm/s increment CNC cycle: Automatic measuring and positioning CNC cycle with autocomparing function Software: Profile studio CNC
1	MITUTOYO	LH60CG	Measuring range: 0 - 972mm Slider stroke: 600mm	Resolution: 0.0001 / 0.001 / 0.01 / 0.1mm or (switchable) Excellent accuracy of (1.1+0.6L/600)µm with 0.1µm/0.5µm resolution/repeatability Floating method: Full / semi-floating with built-in air compressor Display: Graphic LCD (320x240 dot, with back light)
1	ERNST	AT130		Manual digital Hardness Tester Conic and spherical diamond penetrating head Load Rockwell: 588,4-980,7-1.471 N (60-100-150 kp) Brinell: 612,9-1.226-1.839 N (62,5-125-187,5 kp) Scale HRA, HRB, HRC, HRD, HRF, HRG, HB/30 (187,5-2,5)
1	CIGIEMME	MAGISCOP CEM 1000/400		Universal bed with magnetic particle in liquid suspension 5000 A CA/CC with continuous electronic regulator 2mm Maximum deepness for detectable longitudinal and transversal faults
1	CIGIEMME	MAGISGLOW		Penetrant fluorescent liquid tank. Drying oven and ultrasonic washing system

No.	BRAND	MODEL	TRAVEL AXIS (MM)	TECHNICAL SPECIFICATIONS
1	MICROVU	SPECTRA	Measure range 50 x 100 mm Magnify x10; x20; x50; x100	Digital video projector Resolution 0,001 mm Endoscope light Software "Inspec"
1	AUTOMATOR	REX	Travel on X axis 300 mm Travel on Y axis 300 mm Travel on Z axis 400 mm	Safety Class 1 Laser etching machine: fiber YVO4 power 10W Theta axis with software controller rotating chuck GENIUS etching software