

MACHINE LIST

TURNING

Nr.	Model	Description	Bar pass	Runs [mm]			Rpm
			Ø [mm]	X/Ø	Y	Z	[rpm]
1	Star RNC 16	CNC Sliding headstock lathe- Bar	Ø 16	15		85	10000
1	Star SR 20 III	CNC Sliding headstock lathe- Bar	Ø 20	20		205	10000
1	Star SB 20 type G	CNC Sliding headstock lathe- Bar	Ø 20	20		205	10000
1	Star SR 32III type A	CNC Sliding headstock lathe- Bar	Ø 32	32		295	10000
1	Star SR 32J	CNC Sliding headstock lathe- Bar	Ø 32	32		295	10000
1	Okuma GENOS L200E-MY	CNC lathe Driven tools	Ø 50	210	60	300	4200
1	Okuma LB15II	CNC lathe Fanuc ARCmate 120i Robot	Ø 60	250		500	4200
1	Okuma LB12	CNC lathe Fanuc LRmate 100 Robot	Ø 42	200		300	4200
2	Okuma LB300MY	CNC lathe Driven tools	Ø 70	250	120	1000	3800
1	Okuma GENOS L200E-MY	CNC lathe Driven tools	Ø 50	210	60	300	4200
1	Okuma GENOS L300E-MY	CNC lathe Driven tools	Ø 65	250	120	600	4500
1	Okuma LB9	CNC lathe - Bar	Ø 42	150		200	4200
1	Takamatsu EX10	CNC lathe - Bar	Ø 42	165		200	4800
1	Femco HL25	CNC lathe - Bar	Ø 52	210		300	4800
2	OkumaLB3000EXMYW	CNC lathe – Bar Driven tools	Ø 80 - Ø70	250	120	1000	4200
1	Okuma LB300MW	CNC lathe - Bar	Ø 65	250		500	3800
1	Okuma LB300M	CNC lathe – Bar Driven tools	Ø 70	250		500	3800
2	Okuma LB200M	CNC lathe – Bar Driven tools	Ø 50	210		300	4200
2	Okuma LT200MY	CNC lathe – Bar Driven tools	Ø 65	210	120	960	4200
1	Okuma LT200M	CNC lathe – Bar Driven tools	Ø 50	210		960	4200

MULTITASKING

Nr.	Model	Description	Bar pass	Runs [mm]			Rpm
5	Okuma MULTUS B300IIW	CNC Multitasking Machine – 5 Axis	Ø 70	300	160	900	10000
1	Okuma MULTUS B200IIW	CNC Multitasking Machine – 5 Axis	Ø 65	250	160	750	12000

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MILLING

Nr.	Model	Description	N° of tools	Runs [mm]			RPM
				X	Y	Z	[rpm]
1	Okuma MA400HA	Horizontal Maching Centers N° 6 pallets	60	560	610	625	15000
2	Okuma MA400HA	Horizontal Maching Centers N° 6 pallets	200	560	610	625	15000
1	Okuma MA40HA	Horizontal Maching Centers N° 2 pallets	40	560	610	625	7000
1	Okuma MA5000HB	Horizontal Maching Centers N° 2 pallets	64	760	760	760	15000
1	Okuma MU5000V	5 Axis Vertical Machining Center	48	800	1050	600	15000
1	Okuma MU4000V	5 Axis Vertical Machining Center – N° 6 pallets	64	740	460	460	20000
1	Okuma GENOS M460-VE	Vertical Machining Centers CN Divider	32	720	460	460	15000
1	Brother TC32B-QT	Vertical Machinig Centers N° 2 pallets	26	550	400	415	16000
1	Brother TC32B-QTn	Vertical Machinig Centers N° 2 pallets	40	550	400	415	16000
1	Roku-Roku	Horizontal Machinig Centers N° 2 pallets	30	300	220	300	12000
1	Kitamura 2	Vertical Machinig Centers CN Divider	20	580	420	450	5000

EDM

Model	Description	Wire Diameter Range (mm)	Runs [mm]			Maximum Wire Angle
			X	Y	Z	
Mitsubishi MV1200R	Wire EDM Machine	0,1 – 0,3	400	300	220	15° x 200mm

LASER MARKING

Model	Description	Working field	Runs [mm]			Maximum Speed
			X	Y	Z	
CIELLE - TAU SMART	Laser marker	0,1 – 0,3	110	110	255	7m/sec

PRE-SETTING

Model	Description
SPERONI STP MAGIS 500	Tool presetting and measuring system
HAIMER POWER CLAMP PLUS NG	High performance shrink fit machine for all tools, with intelligent NG coil, single chuck version and integrated contact cooling

VACUUM WASHING MACHINE

Model	Description
IFP KP 100	Vacuum washing machine – modified alcohol, hydrocarbons. Ultrasound technology

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LABORATORY AND QUALITY CONTROL

Measurement tools

Model	Description	Runs [mm]			Precision [mic]	Resolution	
		X	Y	Z	Linear (MPE _E)	[mic]	
ZEISS Contura G2	3D measuring machine	700	1000	600	1,7+L/350	0,10	
OGP Smartscope Zip Lite 300	Optical 3D measuring machine + probe	300	300	150	2.0+6L/1000	0,50	
IMS Impact	3D measuring machine	500	600	450	3+L/300	0,50	
Model	Description	Runs [mm]			Precision [mic]	Resolution	
		∅	Y	Z	Roundness error	[mic]	
JENOPTIK Opticline CS308	Vertical optical measuring machine	80	/	300	Diameter: 2 + ∅ _{mm} /100 Length: 5 + L _{mm} /100	0,1	
Model	Description	Runs [mm]			Linear measure error asse X	Resolution	
		X	Y	Z	[mic]	[mic]	
MITUTOYO CONTRACER CBH-400 - 218	Profile measuring machine	10 0	50	450	2 + 0,02/L	0,1	
Model	Description	Runs [mm]			Precision	Resolution	
		X	Y	Z	[mic]	[mic]	
MITUTOYO LH - 600B	Digital height gauge	/	/	600	2+L/600	0,1	
MITUTOYO QM Height 600							
Model	Description	Runs [mm]			Elaborations		Resolution
		X	Y	Z	Profiles	Parameters	[mic]
MITUTOYO SJ-402 Surftest	CNC Roughness meter + measuring software Surfpack SJ	50	/	0,8	R; P; W; DIN4776; MOTIF (R/W)	Ra; Rz; Ry; Rt; Rp; Rq; Pc; Sm; S; Sk; W; AW; Mr1...	
MITUTOYO SJ-210 Surftest	Roughness meter	16	/	/	R; P; W; DIN4776	Ra; Rz; Ry; Rt; Rp; Rq.	
Model	Description	Runs [mm]			Magnification	Resolution	
		X	Y	Focus		[mic]	
S-T- Industries Series 20-4600	Profile projector + Quadra check 2000.	20 0	100	100	10 ÷ 50	2	
Model	Description	Measurable hardnesses					
CISAM	Hardness testing machine	HRA		HRB	HRC		
Model	Description	Magnification					
NIKON SMZ 745T	Stereo Microscope	6		÷	50		
MEIJI EMZ1	Microscope	15		÷	30		
FIBEROPTIC FOT150	Endoscope with monitor	/					

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