

## 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 JNC 32	CNC Sliding headstock lathe-Bar	Ø 32	30		300	6000
1	Star SR 32J	CNC Sliding headstock lathe-Bar	Ø 32	32		295	10000
1	Okuma GENOS L200E-MY	CNC lathe Driven tools	Ø 52	210	60	300	4200
1	Okuma LB15	CNC lathe	Ø 60	250		500	4200
1	Okuma LB15IIC	CNC lathe - Bar	Ø 60	250		500	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
1	Okuma LB9	CNC lathe - Bar	Ø 42	150		200	4200
1	Takamatsu EX10	CNC lathe - Bar	Ø 42	165		200	4800
1	Takamatsu WX20	CNC lathe - Bar	Ø 42	125		200	4800
1	Takamatsu miniturn	CNC lathe Fanuc LRmate 100 Robot	Ø 42	150		200	4800
2	Okuma LB300MY	CNC lathe Driven tools	Ø 70	250	120	1000	3800
1	Okuma GENOS L300E-MY	CNC lathe Driven tools	Ø 65	250	120	600	4500
1	OkumaLB3000EXMYW	CNC lathe - Bar Driven tools	Ø 80	250	120	1000	4200
1	Okuma LB300M	CNC lathe - Bar Driven tools	Ø 70	250		500	3800
2	Okuma LB200M	CNC lathe - Bar Driven tools	Ø 52	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 52	210		960	4200
4	Okuma MULTUS B300MY	CNC Multitasking Machine – 5 Axis	Ø 70	450	160	900	10000
1	Femco HL25	CNC lathe - Bar	Ø 52	210		300	4800

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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 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 MC30VA	Vertical Machining Centers CN Divider	16	500	330	400	6000
1	Okuma GENOS M460-VE	Vertical Machining Centers CN Divider	32	720	460	460	15000
1	Brother TC32A	Vertical Machinig Centers N° 2 pallets	10	450	320	410	12000
1	Brother TC32B-QT	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

## Grinding

Model	Description	Diameter mola	Runs [mm]			RPM
			X	Y	Z	[rpm]
Edgewheel grinder	Hydraulic grinding	250	550	200	250	3000

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## LABORATORY AND QUALITY CONTROL

### Measurement tools

Model	Description	Runs [mm]			Precision [mic]	Resolution	
		X	Y	Z	Linear (MPE <sub>E</sub> )	[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	
Nr. 2 - 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]	
Talyrond 150 Rank Taylor H.	Roundness measuring instrument	300	/	300	0,1	0,012	
Model	Description	Runs [mm]			Linear measure error asse X	Resolution	
		X	Y	Z	[mic]	[mic]	
CONTRACER CBH-400 - 218 Mitutoyo	Profile measuring machine	100	50	450	2 +0,02/L	0,1	
Model	Description	Runs [mm]			Precision	Resolution	
		X	Y	Z	[mic]	[mic]	
LH - 600B Mitutoyo	Digital height gauge	/	/	600	2+L/600	0,1	
Model	Description	Runs [mm]			Elaborations		Resolution
		X	Y	Z	Profiles	Parameters	[mic]
SJ-402 Surftest Mitutoyo	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.....	
Model	Description	Runs [mm]			Magnification		Resolution
		X	Y	Focus			[mic]
S-T- Industries Series 20-4600	Vertical profile projector + Quadra check 2000.	200	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	
Mantis Elite Vision Engineering	Stereo Microscope	6		÷		8	
Meiji EMZ1	Microscope	15		÷		30	
Fiberoptic FOT150	Endoscope with monitor	/					
Model	Description	N°					
SPC MARPOSS - MG	Statistical analyzer	3					

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