

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 |
| 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 |
| 1 | Okuma MA400HA | Horizontal Maching Centers N° 6 pallets | 200 | 560 | 610 | 625 | 15000 |
| 1 | Okuma MU5000V | 5 Axis Vertical Machining Center | 48 | 800 | 1050 | 600 | 15000 |
| 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 _L) | [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] | |
| 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 | 0,0001 | |
| 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 (RW) | Ra; Rz; Ry; Rt; Rp; Rq; Pc; Sm; S; Sk; W; AW; Mr1..... | 0,000125 |
| Model | Description | Runs [mm] | | | Magnification | Resolution | |
| | | X | Y | Focus | | [mm] | |
| S-T- Industries Series 20-4600 | Vertical profile projector + Quadra check 2000. | 200 | 100 | 100 | 10 ÷ 50 | 0,002 | |
| 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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