

MACHINE AND INSPECTION TOOL LIST

LATHE WORK

| Type | Machine | Maximum spindle capacity | Maximum Ø of the mandrel | Spindle rotation speed | Output |
|---------------------|---|--------------------------|--------------------------|------------------------|---------|
| CNC | MAZAK QT8N lathe | Ø 40 | 150 | 6000 rpm | 7 kW |
| | MAZAK QT10N lathe | Ø 40 | 150 | 6000 rpm | 7 kW |
| | MAZAK QT NEXUS 100-II lathe | Ø 52 | 150 | 5600 rpm | 11 kW |
| Autolathe | INDEX E42 hydraulic automatic lathe with bar feed | Ø 42 | 100 | 3000 rpm | 4 kW |
| | INDEX E42 hydraulic automatic lathe | Ø 42 | 100 | 3000 rpm | 5,5 kW |
| Conventional | COLCHESTER | Ø 42 | 200 | 2500 rpm | 3,75 kW |
| | SCHAIMP | Ø 42 | 300 | 2000 rpm | 3 kW |
| | SCHAUBLIN | Ø 52 | - | 3000 rpm | 2 kW |
| | MYFORD | Ø 15 | 100 | 3000 rpm | 1 kW |
| | MYFORD | Ø 15 | 100 | 3000 rpm | 1 kW |
| | MYFORD | Ø 15 | 100 | 3000 rpm | 1 kW |

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MILLING

| Type | Number of axes | Number of simultaneous axes | Machine | Stroke | | | Spindle rotation speed | Output |
|---|----------------|-----------------------------|--|--------|-----|-----|------------------------|--------|
| | | | | X | Y | Z | | |
| 5-axe machining unit | 5 | 5 | 24-tool DECKEL DMU50V machining unit | 500 | 380 | 380 | 8000 rpm | 15 kW |
| | 5 | 5 | 24-tool DECKEL DMU50V machining unit | 500 | 380 | 380 | 15000 rpm | 15 kW |
| | 5 | 5 | 30-tool DECKEL DMU70EVO Machining unit | 750 | 600 | 520 | 24000 rpm | 24 kW |
| Machining unit and CNC milling machine | 3 | 3 | 25-tool DECKEL DMU80E machining unit | 800 | 650 | 650 | 12000 rpm | 15 kW |
| | 3 | 3 | DECKEL FP4ME milling machine | 500 | 380 | 380 | 3150 rpm | 4,5 kW |
| | 3 | 2 | DECKEL FP4A milling machine | 500 | 380 | 380 | 3150 rpm | 4,5 kW |
| Conventional | 5 | 1 | KORRADI | 400 | 350 | 300 | 2200 rpm | 4 kW |

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LATHE WORK BUILT-IN MILLING

| Machine | Number of axles | Maximum spindle capacity | Maximum Ø of the mandrel | Lathing spindle rotation speed and output | Milling spindle rotation speed and output | Maximum machining length |
|--------------------------|-----------------|--------------------------|--------------------------|---|---|--------------------------|
| MAZAK Integrex 200-IIIIT | 7 | Ø 65 | 660 | 5000 rpm 22 kW | 12000 rpm 15 kW | 1000 |

RESURFACING & HONING

| Type | Machine | Stroke | | |
|----------------------------------|-------------------|--------|-----|-----|
| | | X | Y | Z |
| Grinding Machine-Coordinate type | DECKEL-LK | 400 | 250 | 350 |
| Universal grinding machine | REINECKER | 420 | 220 | 250 |
| Flat-grinding machine | IMPERIA | 300 | 150 | 150 |
| Tool Grinder | CHRISTEN | - | - | - |
| Honing-machine | SUNNEN MBC-1801-G | - | - | - |

SAWING

| Type | Machine | Cutting width | Cutting height |
|-------------|------------|---------------|----------------|
| Circular | KALTENBACH | 350 | 120 |
| Vertical | OPUS | 600 | 300 |
| Alternating | GACO | 250 | 200 |

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TOOL - SETTING

Tool presetting machine KELCH Kalimat C34 with CCD Camera
Balancing Machine MPM – type BMT 200

MATROLOGY

| Type | Machine | Comments |
|-----------------------------|---|---------------------------|
| 3-D | WENZEL LH650 with RENISHAW PH10T head (4th et 5th axles) and TP200 tracer changer | 650 x 750 x 500 mm stroke |
| Measurement column | MITUTOYO LH600 We have 2 measurement columns of this type at our disposal. | 600 mm stroke |
| Hardness tester / durometer | O.M.A.G. | |
| Profile projector | ISOMA | |

+ various traditional inspection tools (parallel shims, Palmer, diatest, etc.)

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MISCELLANEOUS

Pneumatic micro-percussion marking machine with divider head - PROPEN P3000 type, with a capacity of 100 x 100

3-nozzle microblasting machine (SANDMASTER type FG 3-92)

40-ton eccentric press

6-ton eccentric press

Several drill press

Thread rolling head up to M24

Divider heads

CAD-SYSTEM

Program MASTERCAM

QUALITY SYSTEM

The company quality management system was ISO 9001:2000 certified in January 2004.