

List of CNC machines:

Multitask machines (5 axis):

- 2 x Mazak Integrex i-200H ST, 2 spindles, MAZATROL smooth-Ai, Robojob automation.
- 2 x Mazak Integrex 200 ST, 2 spindles, portal-robots and part-magazines.
- DMG Mori Seiki NTX 2000 SZ, 2 spindles, UR 10 Robot.

Milling machines:

- Mazak Variaxis C-600, spindle speed 20 000 rpm, 5 axis, ABB FlexLoader SC3000 robotcell automation.
- Deckel Maho DMU 50 eVolution, 5 axis.
- Matsuura FX1, spindle speed 30.000 rpm, 4 axis.
- Matsuura MC 510VGM, spindle speed 15.000 rpm, 3 axis.
- Deckel Maho DMC 835V, spindle speed 15.000 rpm, 3 axis, robot for unmanned production.
- DahLih MCV 610, 4 axis.

Turning machines/lathes:

- Nakamura-Tome NTY3-100 All three Y-axes, 2 spindel, 3 turret, bar-feeder.
- Nakamura-Tome Super Mill WY-250, 2 turrets, 2 spindles, bar-feeder.
- Schaublin 110 CNC, small parts.
- Schaublin 125 CCN, small parts.

Measuring machine:

- Zeiss DuraMax Shopfloor 5/5/5
- Zeiss Contura 7/10/6 – w/ Calypso Software
- Opticline Contour CS308
- Sheffield D-8 discovery II CMM with Renishaw PH10M.

Marking and engraving:

- Rofin-Sinar PowerLine E laser.

Machine-capabilities:

Multitask machines:

2 x MAZAK Integrex I-200H ST	Version: i-200H ST, 2 spindles, w/MAZATROL smooth-Ai + Robojob TA 200i automation
Max m-spindle speed	12000 rpm
Max main/second spindle speed	5000/5000 rpm
Chuck	Ø200 mm
Max turning diameter	600 mm
Max length	850 mm
Spindle bore	65 mm
Number of tools	112
X-axis	635 mm
X2-axis	210 mm
Y-axis	210 mm
Z-axis	900 mm
Z2-axis	900 mm
C-axis	360°
B-axis	240°



Mazak Integrex	Version: 200-III ST	Version: 200-IV ST
Max m-spindle speed	12000 rpm	12000 rpm
Max spindle speed	6000 rpm	5000/5000 rpm
Chuck	Ø200 mm	Ø200 mm
Max turning diameter	660 mm	660/160 mm
Max length	1016 mm	1496 mm
Spindle bore	76 mm	76 mm
Number of tools	40+09	40 +9
X-axis	530 mm	580/150
Y-axis	70 mm	160
Z-axis	1065 mm	1496
C-axis	360°	360°
B-axis	200°	200°



DMG Mori Seiki NTX 2000 SZ	Additional: robot-cell
Max spindle speed	4000 rpm
Max speed m-spindle	12000 rpm
Chuck	Ø254 mm
Max turning diameter	610 mm
Max length	1540 mm
Spindle bore	80 mm
Number of tools	76
X-axis	495 mm
Y-axis	+/- 125 mm
Z-axis	1560 mm
C-axis	360°
B-axis	+/- 120°



Milling machines:

Mazak Variaxis C-600	Additional: ABB FlexLoader SC300 automation
Max spindle speed	20000 rpm
Axis	5
Number of tools	90
X-axis	650 mm
Y-axis	550 mm
Z-axis	530 mm



DahLih MCV 610	
Max spindle speed	6000 rpm
Max length	X=610 mm, Y=455 mm, Z=590,7 mm
Number of tools	16
X-axis	610 mm
Y-axis	460 mm
Z-axis	400 mm
A-axis	360°



Dechel MahoDMC 835V	Additional: robot-cell
Max spindle speed	10000 rpm
Max length	X=835 mm, Y=510 mm, Z=510 mm
Number of tools	20
X-axis	
Y-axis	
Z-axis	



Dechel MahoDMU 50 eVolution	
Max spindle speed	10000 rpm
Axis	5
Number of tools	20
X-axis	500 mm
Y-axis	380 mm
Z-axis	



Matsuura FX1	
Max spindle speed	30000 rpm
Number of tools	20
X-axis	510 mm
Y-axis	360 mm
Z-axis	460 mm



Matsuura MC510VGM	
Max spindle speed	15000 rpm
Number of tools	20
X-axis	510 mm
Y-axis	360 mm
Z-axis	460 mm



Turning machines/lathes:

Nakamura NTY3-100	
Max spindle speed	6000 rpm
Chuck	Max collet chuck 6"
Max turning diameter	200 mm
Max length	820 mm
Spindle bore	32
Number of tools	72
X-axis	135 mm
Y-axis	84 mm
Z-axis	578 mm



Nakamura Tome SuperMill WY-250	
Max spindle speed	5000 rpm
Max speed m-spindle	6000 rpm
Chuck	
Max turning diameter	
Max length	580 mm
Spindle bore	65
Number of tools	24, double; max 48
X-axis	320 mm
Y-axis	100 mm
Z-axis	580 mm



Schaublin 110 CNC	
Max spindle speed	6000 rpm
Chuck	Max collet chuck Ø31 mm equipped with rod feeder: 25 mm
Max turning diameter	31 mm
Spindle bore	25
Number of tools	8, double; max 16
X-axis	220 mm
Z-axis	300 mm



Schaublin 125CNC	
Max spindle speed	4000 rpm
Chuck	Collet chuck Ø2- Ø25 mm
Max turning diameter	31 mm
Spindle bore	25 mm
Number of tools	6



Measuring machines:

Opticline Contour CS308	
Strokes:	
X	0,2-80mm
Y	0,2-80mm
Z	300mm
Tolaris Optic	

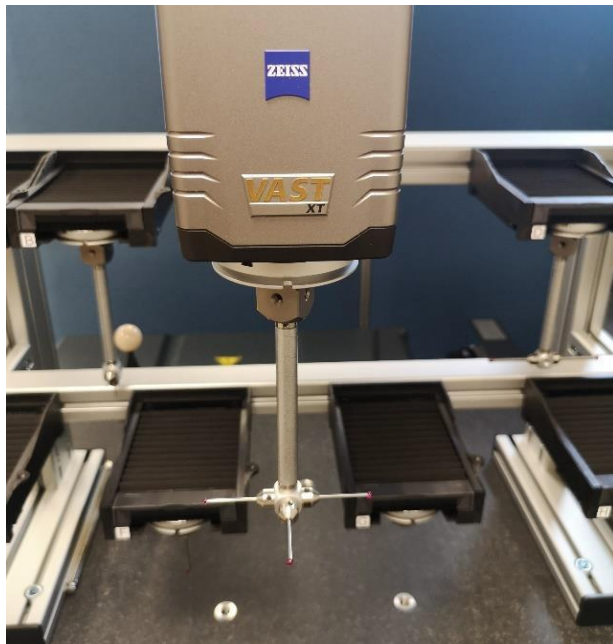


Zeiss DuraMax 5/5/5	
Strokes:	
X	500mm
Y	500mm
Z	500mm
Performance	MPE _E (µm) 2,4 + L/300



Measuring machines:

Zeiss Contura 7/10/6	
Strokes:	
X	700mm
Y	1000mm
Z	600mm
Performance	MPE _E (μm) 1,5 + L/350
Calypso Software	



Marking/engraving laser:

Rofin Powerline E	
XY= 120x120 mm	
Corrent	4,0 – 45,0 mm
Frequency	4,0-45,0 Hz
Rofin Sinar Nisual marker software	

