

MACHINERY AND MEASURING INSTRUMENTS CAPAUL

MACHINING CENTRE MILL TURN - 5 AXIS (PRECISION 0,01 MM)

Machine	Working range (mm)	Speeds (RPM)	Tool position	Year of construction	Details
MAZAK INTEGREX I-1600	Ø 2.050 x 1.600	Milling: 10.000 Turning: 600 (High Torque)	252 (HSK100)	2023	- Pallet changer - 2 pallets - Snout - spindle prolongation 500mm - Simultaneous 5-Axis machining Mill Turn
MAZAK INTEGREX I-630V (2x)	Ø 1.050 x 1.050	Milling: 10.000 Turning: 550	240 (HSK100)	2019	- FMS Line 24 pallets - Simultaneous 5-Axis machining Mill Turn
DMG DMC 125FD (2x)	Ø 1.250 x 1.000	Milling: 10.000 Turning: 500	120 (HSK100)	2008 (retrofit 2022)	- Pallet changer - 2 pallets - 5 axis - Mill turn
DMG DMC 80FD	Ø 800 x 800	Milling: 10.000 Turning: 800	60 (HSK63)	2006	- 5 axis - Mill turn
MAZAK INTEGREX I-100HS (3x)	Ø 500 x 800	Milling: 12.000 Turning: 6.000	72 (Capto C6)	2024	- Double chuck with automatic takeover - Bar feeder + robotisation - Simultaneous 5-Axis machining Mill Turn
MAZAK INTEGREX I-100S + ST (2x)	Ø 500 x 800	Milling: 12.000 Turning: 6.000	72 (Capto C6)	2017	- Double chuck with automatic takeover - Bar feeder + robotisation - Simultaneous 5-Axis machining Mill Turn - Second turning revolver
MAZAK INTEGREX I-400ST	Ø 600 x 1.500	Milling: 12.000 Turning: 3.300	72 (Capto C6)	2019	- Double chuck with automatic takeover - Charging Robotisation - Simultaneous 5-Axis machining Mill Turn - Second turning revolver
MAZAK INTEGREX 400Y	Ø 610 x 1.000	Milling: 12.000 Turning: 3.000	40 (Capto C6)	2000	- 5 axis - Mill turn

TURNING CNC (PRECISION 0,01 MM)

Machine	Max. rotation Ø (mm)	Max. turning length (mm)	Ø Machine Passage Chuck	Year of construction	Details
MAZAK SLANT TURN 500MSY	Ø 910	2.000	Ø 160	2021	- Bezel Ø100-410 mm
MAZAK QUICK TURN NEXUS 450 (2x)	Ø 845	2.000	Ø 160	2011	- Bezel Ø50-200 mm
MAZAK QUICK TURN NEXUS 350	Ø 420	1.173	Ø 70	2004	
MAZAK NEXUS 250-II MSY	Ø 280	300	Ø 68	2003	- Bar Feeder
MAZAK QUICK TURN NEXUS 150	Ø 330	550	Ø 51	1998	

- MACHINING CENTRE MILLING - 5 AXIS (PRECISION 0,01 MM)

Machine	Working range (mm)	Speeds (RPM)	Tool position	Year of construction	Details
REIDEN RX12 5 Axles	Ø 1.200 x 1.000	12.000	103	2020	- 5 axis - Palet changer - 4 palets
DMG DMC 125U (2x)	1.250 x 880 x 800	12.000	120 (HSK63)	2004 (retrofit 2022)	- 5 axis - Pallet changer - 2 pallets
DMG DMC 100H	1.000 x 1.000 x 1.000	12.000	100 (HSK100)	2011 (retrofit 2025)	- 4 axis - Pallet changer - 2 pallets
MAZAK VARIAXIS I-600	Ø 650 x 450	12.000	120 (SK40)	2019	- FMS Line 24 pallets - Simultaneous 5-Axis machining
MAZAK HCN4000	560 x 640 x 640	14.000	160 (SK40)	2017	- FMS Line 24 pallets - Simultaneous 4-Axis machining
HERMLE C600	600 x 450 x 450	14.000	30 (SK40)	2004	- 5 axis
MAZAK CVS-500	730 x 470 x 450	10.000	48 (SK40)	2021	- 5 axis
LIECHTI G-MILL 1150	Ø1.150 x 550	18.000	97 (HSK80)	2009	- 5 axis - high dynamic Blisk
MAZAK FH-4800	560 x 610 x 560	12.000	120 (SK40)	2003	- FMS Line 6 pallets - 4-Axis machining

- HIGH PRECISION TURNING CNC (PRECISION 0,001 MM)

Machine	Max. rotation Ø (mm)	Max. turning length (mm)	Ø Machine Passage Chuck	Year of construction	Details
HEMBRUG MIKROTURN 100 CNC	420	350	/	2003	- High Precision hydrostatic turning machine

- MACHINING CENTRE MILLING - 3 AXIS (PRECISION 0,01 MM)

Machine	Working range (mm)	Speeds (RPM)	Tool position	Year of construction	Details
MAZAK VCN-530C – SMOOTHG	1.050 x 530 x 5.310	12.000	42	2019	
MAZAK AJV - 35/60 CNC	1.500 x 800 x 700	3.000	60	1991	- Pallet changer - 2 pallets
MAZAK VTC 20B CNC	1.120 x 510 x 510	7.000	24	1997	

BALANCING MACHINE

Machine	Length (mm)	Max. weight range (kg)	Max. load per socket (kg)	Max. rotor diameter (mm)
SCHENK ROTEC HL50U	5.250	2.500	1.400 (2x)	2.500

EDM (PRECISION 0,001 MM)

Machine	Working range (mm)	Year of construction	Details
SODICK ALC600G	600 x 400 x 350	2023	
WIRE EDM MITSUBISHI RA90	320 x 250 x 160	2002	

MANUAL TURNING CENTRE (PRECISION 0,01 MM)

Machine	Max. rotation ø (mm)	Max. turning length (mm)	Tip width (mm)
QUANTUM D360x1000E	360	1.000	1.000
SCHÄUBLIN 125	270	500	500

SAW

Machine	ø max. mm
BEHRINGER BAND SAW	360

WELDING

Machine	Working range (mm)	Details
Orbital Welding	ø 40	- Brand

MARKING

Machine	Remark
DATALOGIC AREX 20W LASER MARKING MACHINE	Rated power: 20W Working area: 100x100 mm Up to 4 mechanical axes
Percussion Marking SIC (5x)	4 Mobile marking Systems 1 fix marking station with as 4 mechanical axes

• SPECIAL PROCESSES

Machine	Remark
SAND BLASTING CABINET LABOREX	Qualification: Safran Dimension: up to Ø650
Fluorescent Penetration Indication Line	Qualification: NADCAP and Safran Sensibility: s2 + s3 Dimension: up to Ø650
Clean Room Class 7 available	/

• MEASURING DEVICES

Quality assurance	Workspace	Accuracy	Year of Construction
AIR-CONDITIONED ROOM	Integrated into new 2000m ² air-conditioned hall	-	-

Mechanical measuring instrument	Workspace	Accuracy	Year of Construction
3D MEASURING MACHINE LEITZ PMM-F 30.20.10	3.000 x 2.000 x 1.000 mm	E= 1.7 + L/400 µm	2010
3D MEASURING MACHINE LEITZ REFERENCE	1.000 x 660 x 660 mm	E = 3.5 + 4L/1.000 µm	2010
3D MEASURING MACHINE DEA IMAGE	2.000 x 660 x 660 mm	E = 3.5 + 4L/1.000 µm	2003
3D MEASURING MACHINE DEA MISTRAL	1.000 x 660 x 660 mm	E = 3.5 + 4L/1.000 µm	1996
3D MEASURING MACHINE DEA GLOBAL	700 x 1.000 x 660 mm	E= 2.3 +3.3L/1.000 µm	2005
CONTUROGRAPH ZEISS RONDCOM 60A	Ø420 x 500	1.5 µm/500 mm	(retrofit 2023)
3D MEASURING ARM FARO GAGE PLUS	max. amplitude = 1.2m	E = 5+8L/1.000 µm	2010
HARDNESS MEASURING MACHINE AFFRI 270 VRSD	Vickers. Rockwell. Brinell	-	2002

Optical measuring instrument	Workspace	Accuracy	Year of Construction
ZEISS GOM ATOS 5	700 x 700	0.01 mm	2025
KEYENCE	300 x 150 x 75	0.002 mm	2024