

Technology	Machine name	Machine Year of Manufactur	Table size [mm]	Working travels in X-/Y-/Z-axis [mm]	Spindle speed (rpm)	Accuracy (mm)	Max. permissible loading weight (kg)	Picture
5 Axis CNC Milling	GROB 550	2017	Ø800	800/1,020/1020	16000	0.006	700	
	GROB 350	2015	Ø600	600/855/750	16000	0.006	400	
	GROB 350 pallet changer (Pallet change system for 2, 400 x 400 mm pallets)	2011	400/500	600/770/805	18000	0.006	338	
	GROB 350 pallet changer (Pallet change system for 2 400 x 400 mm pallets)	2023	400/500	600/855/750	Motorized spindle HSK-A 63, 16,000 rpm, 159/206 Nm	0.006	338	
	DMG MORI DMF 180 7	2020	Ø750 2,100/700	1800/700/700	20000	0.010	1500	
	FANUC ROBODRILL D21LiB5	2021	850/410	700/400/330	23000	0.004	300	
3 Axis CNC Milling Vertical machining center	PINNACLE - PK-VMC 1000 S	2005	1,200/600	1,020/610/610	8000	0.010	850	
	PINNACLE - PK-VMC 1100 S	2007	1,300/600	1,140/610/610	8000	0.010	850	
	PINNACLE - VMC 1160	2008	1,300/600	1,140/610/610	8000	0.010	850	
	HWACHEON - Vesta 1000	2012	1,100/500	1,000/550/500	10,000	0.010	700	
	LEADWELL - V50L	2022	1,420/610	1,270/635/610	12,000	0.010	1000	
CNC Turning	TAKISAWA - TS 4000YS	2018	-	Swing over bed: Ø600 Max. Cutting diameter: Ø370 Max. Cutting length: Ø750 Max. Bar size: Ø82 Max. Stroke (X/Z): 267/840	4200/6000	0.008	-	
	LEADWELL - LTC 25-BLM	2008	-	Swing over bed: Ø680 Max. Cutting diameter: Ø305 Max. Cutting length: Ø1050 Max. Bar size: Ø85 Max. Stroke (X/Z): 230+20/1050	3200	0.010	-	
	HWACHEON - CUTEX 160B MC	2014	-	Swing over bed: Ø550 Max. Cutting diameter: Ø260 Max. Cutting length: Ø209 Max. Bar size: Ø51 Max. Stroke (X/Z): 170/335	4500	0.008	-	
	COLCHESTER TORNADO T6MS	2007	-	Swing over bed: Ø440 Max. Cutting diameter: Ø220 Max. Cutting length: Ø450 Max. Bar size: Ø54 Max. Stroke (X/Z): 210/170	4000/6000	0.008	-	
	DN SOLUTIONS - PUMA V8300ML (vertical)	2024	-	Max. Cutting diameter: Ø830 Max. Cutting height: Ø690 Max. Stroke (X/Z): 495/780	2000	0,01	800	
3D Measurement technology	Zeiss - Contura G2	2011	-	Length measurement error: 1.8 + L/300 Measuring range: 1000/1200/600	-	-	1150	
Contour Measurement technology	Mahr - MarfSurf ST 500	2023	-	Traversing length (in X): 1 mm to 120 mm Measuring range (in Z): 50 mm for 350 mm tracing arm 25 mm for 175 mm tracing arm	-	Resolution (in Z) referred to the measuring system: 0.04 µm	-	
Height Measurement technology	TRIMOS Height Gauge v4	2019	-	Measuring range: 407mm Application range: 719mm	-	Max resolutions 0,001 (0,00005) mm	-	
Image Dimension Measurement System	KEYENCE IM-8200	2021	-	Field of view Wide-field measurement mode: 200 × 200 mm (4× R50) High-precision measurement mode: 125 × 125 mm	-	<u>Measurement accuracy (±2σ)</u> Wide-field measurement mode: Without binding ±3.9 µm *1 With binding ±(7 + 0.02 L) µm *2	5	