

### CNC – turning / milling center

<i>machine</i>	<i>description</i>	<i>workspace [mm]</i>
DMG-Mori NTX-1000 (2x) .....	milling head 5-axis / 20'000 rpm / bar loader ø65mm	ø 10-320 x 400

### CNC milling

<i>machine</i>	<i>description</i>	<i>workspace [mm]</i>
Mikron HEM 500U.....	5-axis .....	500 x 450 x 400
Mikron HPM 600U.....	5-axis .....	650 x 650 x 550
Mikron HPM 800U.....	5-axis / pallet magazine.....	800 x 800 x 550
Mikron HSM 600U .....	5-axis / pallet magazine / 36'000 rpm .....	600 x 600 x 500
Mikron HSM 600U .....	5-axis / pallet magazine / 40'000 rpm .....	600 x 600 x 500
Mikron MILL P 800U SHORT .....	5-Achsen / Palettenmagazin / 20'000 U/min .....	800 x 800 x 550
Kitamura H400 / 2APC.....	4-axis .....	610 x 510 x 510
Kitamura HX400 / 6APC .....	4-axis / pallet magazine.....	660 x 510 x 510
Moriseiki NH5000 DCG.....	4-axis / pallet magazine.....	730 x 730 x 850
Makino a61nx .....	4-axis / pallet magazine.....	730 x 730 x 800
Brother TC 31A.....	3-axis .....	350 x 250 x 350
Haas VF 2SS Super Speed (2x) ...	3-axis .....	760 x 405 x 510
Haas VF 6SS Super Speed .....	3-axis .....	1626 x 813 x 762
Mikron VCE 1000 Pro-X.....	3-axis .....	1020 x 560 x 600
Mikron VCE 800 Pro .....	3-axis .....	800 x 500 x 540
Mikron VCP 1000 Duro .....	3-axis .....	1000 x 650 x 500
Mikron VCP 600.....	3-axis .....	600 x 450 x 450

### CNC turning

<i>machine</i>	<i>description</i>	<i>workspace [mm]</i>
Biglia B465 T2 Y2 .....	2 spindles / 2 turrets / bar loader ø70mm .....	ø <sub>max</sub> 200 x 630
	driven tools	
Biglia B750YS.....	2 spindles / 1 turrets / bar loader ø80mm .....	ø <sub>max</sub> 450 x 765
	driven tools	
Puma TT 1800SY .....	2 spindles / 2 turrets / bar loader ø65mm .....	ø 8-250 x 230
	driven tools	
Index G200 Compact.....	bar loader ø 42 mm / tailstock .....	ø 5-150 x 400
	driven tools	
Star Micronics SR20 540Q.....	long turning automat / bar loader ø20mm.....	ø 2-20 x 350
	driven tools	
Star Micronics SR20 R II.....	long turning automat / bar loader ø20mm.....	ø 2-20 x 350
	driven tools	
Tornos Deco 2000 Typ10a (2x).....	long turning automat / bar loader ø10mm.....	ø 2-10 x 60
	7 axes	
Schaublin 250 CNC .....	driven tools / bar passage ø42mm.....	ø 2-42 x 600
	CNC-tailstock	
Schaublin 102 CNC .....	bar passage ø25mm .....	ø 2-25 x 200

### CNC eroding

<i>machine</i>	<i>description</i>	<i>workspace [mm]</i>
Charmilles Roboform 200 .....	die sinking .....	320 x 220 x 400
Charmilles Roboform 41 .....	die sinking .....	500 x 400 x 450
Charmilles Robofil 230 .....	wire EDM.....	350 x 220 x 300
Charmilles Robofil 310 .....	wire EDM.....	400 x 250 x 400
Charmilles Robofil 2000 .....	wire EDM.....	320 x 220 x 116

### grinding

<i>machine</i>	<i>description</i>	<i>workspace [mm]</i>
Blohm Simplex 75 .....	flat grinding.....	700 x 550 x 235
Jung HF 50R (2x).....	flat grinding.....	500 x 200 x 250
Jung JF 520E.....	flat grinding.....	600 x 200 x 290
Jung JF 520DS .....	flat grinding.....	500 x 200 x 250
Kellenberger 600RJ .....	round grinding .....	ø 150 x 350
Studer RM250.....	round grinding .....	ø 20 x 100
Hauser 3 SMO .....	coordinate loops .....	580 x 320 x 500

### Machining conventionally

<i>machine</i>	<i>description</i>	<i>workspace [mm]</i>
Deckel FP1 .....	milling machine.....	300 x 150 x 340
Deckel FP2 .....	milling machine.....	400 x 200 x 400
Deckel FP4M .....	milling machine.....	500 x 400 x 400
Hermle UWF801 (2x) .....	milling machine.....	500 x 450 x 400
Mikron F31C .....	milling machine.....	500 x 500 x 400
Donau DR32 .....	radial drilling machine.....	1140 x 920 x 400
Heidenreich&Harbeck 250 .....	turning machine.....	ø 250 x 800
Oerlikon HMT NH500.....	turning machine.....	ø 245 x 1000
Schaublin 102 (5x).....	turning machine.....	ø 102 x 250
Tornos Schaublin 180 CCN .....	turning machine with tailstock / bezel .....	ø 270 x 630
Weiler Condor.....	turning machine.....	ø 330 x 800

### measuring

<i>machine</i>	<i>description</i>	<i>workspace [mm]</i>
Zeiss Prismo 5HTG.....	3D-measuring machine .....	700 x 900 x 500
Zeiss Contura VAST XT gold .....	3D-measuring machine .....	700 x 1000 x 600
De Meet 400 .....	optical measuring machine .....	400 x 250 x 200

### trovalizing

<i>machine</i>	<i>description</i>
Trowal Ciclon CC 215 .....	round vibrator
Trowal Ciclon CVE 125 .....	round vibrator
Trowal Ciclon CS 60 (5x) .....	round vibrator

### lasermarking

<i>machine</i>	<i>description</i>	<i>workspace [mm]</i>
Minelli Compact 200 .....	lasermarking.....	500 x 320 x 425