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Shaping the future with precision



Type	Milling machines (CNC)	Max. Range (XYZ)	Max. Clamping (XYZ)	Accuracy [μm]	Multiple axes
CNC	Hermle C 42 (Robot Automated)	850 x 700 x 500		<4	5
CNC	Hermle C 40 (Robot Automated)	800 x 500 x 600		<5	5
CNC	Hermle C 800 U (Robot Automated)	800 x 500 x 600		<5	5
CNC	Hermle C 800 U	1185 x 500 x 385		<10	
CNC	Deckel FP 3	500 x 500 x 400		<10	
CNC	Mazak FJV20	560 x 410 x 410	980 x 660 x 500	<4	3
CNC	Mazak FJV200	560 x 410 x 410	955 x 660 x 480	<4	3
CNC	Mazak FJV250 (Palletchange system)	1020 x 510 x 460	1200 x 550 x 550	<4	3
CNC	Mazak VTC20B	1120 x 510 x 510	1460 x 510 x 640	<4	3
CNC	Mazak VTC200C	1660 x 510 x 510	4000 x 655 x 640	<4	3
CNC	Mazak VTC200C (Driven C-axle included)	1660 x 510 x 510	4000 x 655 x 640	<4	4
CNC	DMU 50V (Turn/ swivel table)	500 x 380 x 380		<4	5
CNC	DMU 80T	880 x 630 x 630	1250 x 700 x 630	<4	3
CNC	Deckel Maho 500 (Max. clamping (XYZ) Manual tool change/ head can tilt)	500 x 380 x 350		<4	3
CNC	Makino D500 (Automated, 200 tools)	1000 x 550 x 500	650 x H500	<3	5
CNC	Mazak VTC 800 C (Robot Automated)	2000 x 800 x 720		<3	5
CNC	DMU 40 V EVO (Robot Automated)	400 x 400 x 375	450 x 400	<3	5
CNC	Spinner	760 x 460 x 460		<3	3

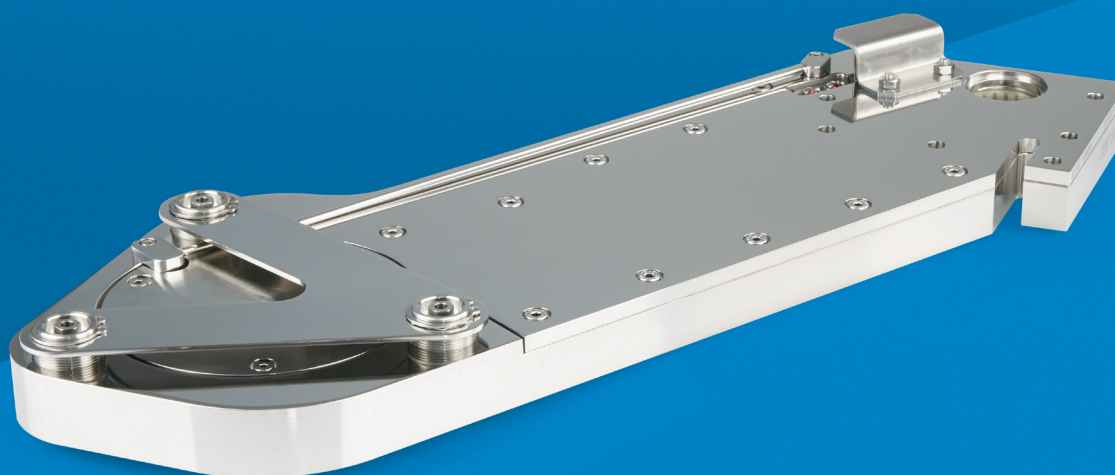


Type	Lathing machines (CNC)	Spindle passage	Bar Feeder	Accuracy [μm]	Multiple axes
CNC	Citizen M16 V (Powerd milling tools incl)	Ø 16	Yes	<10	
CNC	Citizen L16 VI (Powerd milling tools incl)	Ø 16	Yes	<10	B-as
CNC	Citizen L16 (Powerd milling tools incl)	Ø 16	Yes	<10	
CNC	Citizen M32 V (Powerd milling tools incl)	Ø 32	Yes	<10	
CNC	Nakamura WT-100	Ø 42	Yes	<10	

Type	Short turning machines (CNC)	Spindle passage	Max. Turning diameter	Accuracy [μm]	Multiple axes
CNC	Okuma LC 10-2 ST	Ø 36	Ø 160	<10	
CNC	Mazak 10M (Powered tools included)	Ø 65	Ø 420	<10	1
CNC	Mazak SQT100	Ø 52	Ø 280	<10	1
CNC	Mazak NX100-1/2/3	Ø 50/42/42	Ø 280	<10	1
CNC	Schaublin 110	Ø 32	Ø 150	<10	1
CNC	Schaublin 140 (Powered tools included)	Ø 42	Ø 150	<10	1
CNC	Schaublin 140R (Powered tools included)	Ø 42	Ø 150	<10	1
CNC	Mazak SQT250	Ø 65	Ø 350	<10	1
CNC	Mazak NX200M (Has sub-pivot B32)	Ø 60	Ø 380	<10	1
CNC	Montforts KNC6-2000	Ø 75	Ø 600	<10	1
CNC	Montforts KNC600	Ø 75	Ø 600	<10	1
CNC	Montforts RNC400 (Powered tools included)	Ø 65	Ø 420	<10	1
CNC	Mazak QT8-N	Ø 42	Ø 230	<10	1
CNC	Mazak QT8-T plus	Ø 42	Ø 230	<10	1
CNC	Mazak NX250M (Powered tools included. Maximal machining with center: 100)	Ø 74	Ø 350	<10	1
CNC	Mazak NX250M (Powered tools included)	Ø 77	Ø 350	<10	1

Type	Saw machines	Range [mm]	Type	Accuracy [μm]
Conventional	Kasto VBS 222	225	Shackle saw	<0,2
Conventional	Eisele LMS-I	80	Circular saw	<0,2
Conventional	Eisele VSM/II	75	Circular saw	<0,2
Conventional	Kasto VMS 280	280	Shackle saw	<0,2
Conventional	Forte SBA 211	210	Band saw	<0,2
CNC	Forte SBA 241/S	240	Band saw	<0,2

Type	Grinding	Range [mm]	Comments	Accuracy [μm]
Conventional	Jung HF 50 N	500 x 200	Plane grinding	<3
Conventional	Simplex Blohm	600 x 270	Plane grinding	<3
Conventional	Ger RH-L-450	Ø 250 x 450	Grinding around	<5
Conventional	Deckel SO	Ø 12	Grinding tool	<5
Conventional	Various grinders			



Type	Drilling machines
Conventional	Coordinates drilling machines
Conventional	Multiple spindle drilling machine
Conventional	Various column drilling machiens
Conventional	Tapmachine

Type	Welding machines	Capacity	Comments
Conventional	Tecna	60 kVA	Spotweld
Conventional	Peco S 231	15 kVA	Spotweld
Conventional	Kempi-masterTIG	350 Amp	Argon-arc

Type	Polishing and deburring	Amount
	Rotofinish (Rotary polishing)	4
	Rosler (Glide polishing)	1
	Elektrolytic polishing	1

Type	Glass bead blasting	Range [mm]
	Glass bead jet cabin	300 x 300 x 200
	Glass bead jet cabin	500 x 500 x 400
	Glass bead jet cabin	600 x 600 x 500

Type	Cleaning	Amount
	Industrial washing machines	2
	Ultrasonic car wash	1

Type	Plate operations	Range [mm]
Conventional	Roll riveting machine	
	Press brake	1500
	Sheet metal scissors	2500

Type	Incandescent & curing oven	Range [mm]
	Cutting steel	200 x 200
	Cutting steel	400 x 400

Type	Cleanroom
	Cleanroom Facility (50 m2 class 7 10.000 / 30 m2 class 100.000)

Type	Eccentric presses	Tonnage
Conventional	Thomas	10
Conventional	Thomas	30
Conventional	Smeral Trnava	63

Type	Air press	Tonnage
Conventional	Burger Sohne	6
Conventional	Burger Sohne	6
Conventional	Burger Sohne	15

Type	Hydrolysis presses	Tonnage
Conventional	WEMA	100
Conventional	Boelsums & Baker	10

Type	Honing	Range [mm]	Comments	Accuracy [µm]
Conventional	Sunnen MBB-1660 G	Ø 1,5 – 40		<2

Type	Wire sparking	Range [mm]	Comments	Accuracy [µm]
CNC	Fanuc Robocut alpha 0C	650 x 420 x 180		<3



Measuring devices	Maximum measuring range	Comments
Zoller Venturion	400	Preset device
DeMeet	220	Video measuring system
Brown & Sharpe gage	2000	Measuring machine 3D
Mitutoyo Crysta-apex C 7106	705 x 1005 x 605	Coordinate measuring machine
Mitutoyo Crysta-apex C 9166	905 x 1605 x 605	Coordinate measuring machine
Mitutoyo FJ805	800 x 550 x 450	Coordinate measuring machine
Mitutoyo PJ311	200 x 150	Profile projector
Mitutoyo LH600E		Altimeter
Trimos Vertical		Altimeter

Type	CAD CAM	Software
Software	Top Solid 7	Yes
Software	Esprit	Yes



