

Last updated: 01/04/2018

Horizontal Machining Centres

Make	Axes	Traverse paths X/Y/Z	Table size	Comments
PAMA Speedmat 3	XYZBW	3400 / 3000 / 3200	2000 x 1600	4 pallets, extendable spindle sleeve Tool magazine: 510 positions Max. load weight: 12000 kg Overhead crane up to max. 10000 kg
SCHARMANN Solon 5 / T1000	XYZB	2000 / 1600 / 1260	1450 x 1000	4 pallets Tool magazine: 233 positions Max. load weight: 6000 kg Overhead crane up to max. 5000 kg
WOTAN Rapid 1 / 6,3	XYZBW	2000 / 1600 / 600	1250 x 600	1 pallet, extendable spindle sleeve Max. load weight: 6300 kg Overhead crane up to max. 5000 kg
SCHARMANN Solon 2	XYZB	1200 / 1000 / 1000	800 x 630	8 pallets Tool magazine: 233 positions Max. load weight: 2000 kg
HELLER H 5000	XYZB	800 / 790 / 800	630 x 630	2 pallets Tool magazine: 265 positions

Vertical Machining Centres

Make	Axes	Traverse paths X/Y/Z	Table size	Comments
DECKEL MAHO DMF 360 linear	XYZBC	3600 / 1100 / 905	3600 x 1100	Swing range: X = 1420 (2x) Tool magazine: 120 positions Max. load weight: 1200 kg
REIDEN BFR-22	XYZBC	2000 / 1200 / 1500	1200 x 1400	4 pallets, rotary head Tool magazine: 120 positions Max. load weight: 3000 kg Oversize tools - up to ø400 milling - up to ø530 boring
DECKEL MAHO DMU-80 monoBlock	XYZBC	980 / 630 / 630	1250 x 700	Tool magazine: 32 positions
DECKEL MAHO DMU-80P duoBlock	XYZBC	800 / 1050 / 850	900 x 700	Tool magazine: 63 positions
DECKEL MAHO DMU-80 hi-dyn	XYZBC	800 / 700 / 600	900 x 630	Tool magazine: 60 positions
DECKEL MAHO DMC-65 monoBlock	XYZAC	735 / 650 / 560	530 x 530	rotary- / turn table Tool magazine: 120 positions
DECKEL MAHO DMU-60P hi-dyn	XYZC	600 / 650 / 550	Ø630	Tool magazine: 30 positions

Jig Boring Machines

Make	Axes	Traverse paths X/Y/Z	Table size	Comments
MITSUI-SEIKI 7NC	XYZ	1550 / 1020 / 1100	1830 x 1200	Tool magazine: 20 positions
SIP Hydropic 7A	XYZ	1320 / 1000 / 1750	1550 x 1000	
SIP Hydropic 6A	XYZ	950 / 710 / 750	1550 x 1000	

Lathe-Milling-Centres

Make	Axes	Rotation range Ø/Z/Y±	Comments
MAZAK Integrex 70 YB 3000U	XZYBC	915 / 3000 / 130	Tailstock, bezel, driven tools Tool magazine: 80 positions
MAZAK Integrex e-500 H3000	XZYBC VW	820 / 3000 / 500	Tailstock, bezel, driven tools Tool magazine: 120 positions
MAZAK Integrex 50 YB 2000U	XZYBC	710 / 2050 / 105	Tailstock, bezel, driven tools Tool magazine: 80 positions
MAZAK Integrex 50Y / 2000	XZYC	710 / 2047 / 105	Tailstock, bezel, driven tools Tool magazine: 20 positions
MAZAK Integrex 400Y 1500U	XZYBC	610 / 1528 / 105	Tailstock, bezel, driven tools Tool magazine: 80 positions
MAZAK Integrex i-200 ST U1500	X ₁ X ₂ Z ₁ Z ₂ YWBC ₁ C ₂	658 / 1519 / 260	Opposed spindle, tailstock, bar loader ø80 driven tools, Tool magazine: 72 positions
MAZAK Integrex i-200 U1000	XZYWB	658 / 1011 / 250	driven tools Tool magazine: 80 positions
MAZAK Integrex i-400 ST U1500	XZYBC ₁ C ₂	650 / 1400 / 125	Opposed spindle, tailstock, driven tools Tool magazine 1: 72 positions Tool magazine 2: 9 positions
MAZAK QuickTurn - NEXUS 400 II	XZ	580 / 2200 / -	Tailstock, bezel Tool magazine: 24 positions
MAZAK Integrex 300Y 1500U	XZYBC	400 / 1550 / 105	Tailstock, bezel, driven tools Tool magazine: 80 positions
MAZAK SQT 10MS	XZC	230 / 305 / -	Subspindle, bar loader ø80 driven tools Tool magazine: 12 positions

Vertical Lathe-Milling-Centres

Make	Axes	Rotation range Ø/Z/Y	Comments
CARNAGHI ATF 16 TM/SH	XZC	1550 / 1500 / -	2 pallets, driven tools Tool magazine: 40 positions
UNISIGN Univers 6	XZYC	900 / 600 / 800	2 pallets, driven tools Tool magazine: 124 positions

External Cylindrical Grinding Machines

Make	Axes	Grinding area Ø/Z	Comments
SCHAUDT PF 7N-2000	XZ	630 / 1750	
KELLENBERGER Kel-Varia UR-SR	XZBC	598 / 1600	Tandem grinding head Non-circular grinding Hydrostatic guideways
KELLENBERGER Kel-Varia RS-R	XZBC	450 / 1500	Tandem grinding head Non-circular grinding Hydrostatic guideways
STUDER S40 CNC	XZBC	450 / 1600	Non-circular grinding Internal grinding spindle
KELLENBERGER R175X1000 CNC	XZ	175 / 1000	

Internal Cylindrical Grinding Machines

Make	Axes	Grinding area Ø	Comments
CARNAGHI ATF 16 TM/SH	XZ(C)	40 – 400	5 grinding spindles
VOUMARD 300 CNC	XZ	18 - 300	

Surface Grinding Machines

Make	Axes	Traverse paths X/Y/Z	Table size	Comments
ROSA Linea Platinum 20.15CN	XYZ	2600 / 1510 / 700	2200 x 1300	Max. load weight: 2500 kg
ROSA Linea Steel 11.7 CN	XYZ	1200 / 700 / 500	1000 x 500	Max. load weight: 900 kg

3D Measuring Centres

Make	Axes	Traverse paths X/Y/Z	Table size	Comments
LEITZ PMM-G 40.20.20	XYZ	4000 / 2000 / 2000	2000 x 1000	Part sizes are possible up to the area of the traverse paths! Air-conditioned room: 21° ±0.5°C Accuracy: E=2.3+L/400 [µm] Max. load weight: 15000 kg
ZEISS UMC 850	XYZ	850 / 1200 / 600	1400 x 2120	Air-conditioned room: 21° ±0.5°C Accuracy: E=1.9+L/300 [µm] Max. load weight: 1500 kg Overhead crane up to max. 1000 kg

Sheet Metal and Welding Technology

Make	Scope of application	Comments
ABB IRB welding robot	Traverse path X: 2500 Range: 1600	Turn and tilt table, counterbearing
BYSTRONIC laser cutting machine	Traverse path X: 3000 Traverse path Y: 1500 Sheet metal thickness: 25 (steel) 20 (stainless steel) 12 (aluminium) Power: 4400 W	Bystar 3015, Bylaser 4400
XACT pressbrake	Bending length: 3000 Press capacity: 100 To	
MEWAG tube bending machine	Tube Ø: 6 - 42 Max. section length: 3000 Radii: 6 - 40 (rm = 1.5 x ø) 42 (rm = 3.0 x ø)	

Sawing Machines

Make	Cutting capacity	Comments
BEHRINGER band saw	Round (Ø): 15 – 370 Flat (w x h): 12 x 12 – 440 x 370 Tubes (Ø)/wall thickness: up to 50 / 3 up to 100 / 4 up to 100 / 5 Length: up to 6000	

Assembly

Description	Comments
Mechanical assembly	Assemblies of component groups and complete assemblies (crane system for up to 20,000 kg)
Electrical assembly	Control cabinet wiring and construction of controls (Relaymatic and PLC/CNC)

Paint Shop

Description	Comments
Wet painting system	Part and assembly painting on 2-component-basis, Power + Free conveyor system, part weight max. 2500 kg, part dimension l x h x d max. 2000x1400x1000