

OUR TECHNOLOGY AND OUR
KNOW-HOW ARE YOUR SOLUTION

EQUIPMENT



HSC-Milling

Work space (mm)

KERN MicroHD	5-axes, Jig-Grinding, pallet changer	350 x 220 x 250
HSC 30 linear (1)	5-axes, CNC-swivel rotary table	320x300x280
HSC 30 linear (2)	5-axes, CNC-swivel rotary table pallet changer	320x300x280
Röders RXP 500	Carbide machining Graphite extraction system	500x400x240

Milling

DMU 60 eVo linear (1)	5-axes, CNC-swivel rotary table pallet changer	505x500x500
DMU 60 eVo linear (2)	5-axes, CNC-swivel rotary table pallet changer	505x500x500
DMU 40 eVo	5-axes CNC-swivel rotary table	400x400x375
DMU 75 monoBlock	5-axes CNC- swivel rotary table	750x650x560
Hurco VMX 42	5-axis	1060x610x610
Hurco VMX 42	3-axis	1060x610x610
Hurco VMX 30	3-axis	760x510x610
Hurco VMX 30i	3-axis	762x508x610
Fehlmann (1) Picomax 54 Top	Milling- and drillingmachine	500x260x550
Fehlmann (2) Picomax 54 Top	Milling- and drillingmachine	500x260x550
Deckel FP 2 (1)		390x190x390
Deckel FP 2 (2)		390x190x390

Turn & Mill

Work space (mm)

DMG MORI CTX beta 800 TC	6-sided complete machining	ø 500x750
DMG MORI CLX 450 TC (1)	6-sided complete machining	ø 400x1.100
DMG MORI CLX 450 TC (2)	6-Seiten Komplettbearbeitung	ø 400 x 1.100

Hard Turning – High Precision Turning

Hembrug Mikroturn 100	Part probing system, Hydro-static high speed linear driven slides	ø 380x350
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Turning

CLX 350	Driven tools, Y-axis	ø 320 x 530
Gildemeister NEF 600		ø 500 x 1.250
Gildemeister CTX 400	Driven tools, C-axis	ø 200 x 600
Gildemeister CTX 200	Driven tools, C-axis	ø 160 x 350
GDW Zugspindeldrehmaschine LZ 350	Chuck device Eccentric chuck	ø 200 x 750
GDW Zugspindeldrehmaschine LZ 280S		ø 160 x 670
Böhringer VDF		ø 400 x 1.100

EDM – Wire cut

AGIE-Cut excellence 2	Fine wire guidance ø 0,1	350 x 250 x 256
AGIE-Cut evolution 2	Surface roughness Ra = 0,1 µm	350 x 250 x 256
Agie Progress 3	Fine wire guidance ø 0,2	500 x 350 x 420

EDM – Wire cut

Work space (mm)

GF CUT 2000X	Surface roughness Ra = 0,2 µm	350 x 250 x 256
GF CUT 3000	Fine wire guidance ø 0,07 Surface roughness Ra = 0,08 µm	500 x 350 x 256
GF CUT 3000	Fine wire guidance ø 0,07 Surface roughness Ra = 0,08 µm Pallet changer	500 x 350 x 256
GF CUT 3000S	Fine wire guidance ø 0,07 Surface roughness Ra = 0,08 µm pallet changer	500 x 350 x 256
GF CUT 3000X	Fine wire guidance ø 0,05 Surface roughness Ra = 0,08 µm	500 x 350 x 256
GF CUT 1000 OilTech	Fine wire guidance ø 0,02 Surface roughness Ra = 0,05 µm	200 x 160 x 100

EDM – Die sinking

AGIETRON HYPERSPARK 2	C-axis, Pallet system	350 x 250 x 350
GF FORM X 600	C-axis, Pallet system	600 x 400 x 500
GF FORM X 600	C-axis, Pallet system Pallet changer	600 x 400 x 500

EDM – Hole Drilling

AGIEDRILL Startlocherodieranlage	Holes ø 0,2 - ø 3,0	300 x 200 x 300
CASTEK Startlochbohrmaschine SD 16B	Holes ø 0,3 - ø 3,0	300 x 200 x 200
Huber 600 OCT	Holes ø 0,1 - ø 3,0	600 x 400 x 300

Jig-Grinding

Hauser S40 CNC	9.000-160.000 U/min	650 x 460 (Fahrweg)
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Cylindrical grinding

Work space (mm)

Studer S40-4 CNC	Contouring system for profile grinding and profiling of grinding wheels	ø 250 x 650
Weiss W11-650	External-, internal and face grinding	ø 300 x 650

Flachschleifen

Okamoto ACC 42-SAiQ	CNC- flat and profile grinding machine	400 x 200
ASYST CNC AE 525 Duo Grind	CNC-profile grinding machine controlled round table	600 x 230
Jung JF 520 MS	Diaform device Sinus magnet plate	600 x 200
Jung JF 520 D	Sinus magnet plate	600 x 200
Jung HF 50 RD	Diaform device Sinus magnet plate	500 x 200
Jung HFR 30 HR	Horizontal round table	ø 350 x 160
Stöckel FLS 15/60 NC-T		1500x600
ABA/FFU 750/50		750 x 500
ABA/FFU 1500/75		1.500 x 750
Stöckel FLS 15/60 NC-T		1.500 x 600

Honing

Sunnen MBC 1800-G		ø 1,5 - 100,0
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Laser marking

Rofin Baasel Lasertech	Controlled round axis	
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Others		Work space (mm)
Drilling		up to ø 50
Threading machine		
Band saw horizontal HBS 500 S		500x320
Bow Saw		ø 180
Welding with inert gas and electrical		
Hardening and termpering furnaces	up to 1000 °C	
Inductive hardening and soldering		

Presses		
Hydraulic press Exner EX40-S	Pressure 400 kN (40 tons)	
Tooling-Testingpress Hessmert POS 200.4	Pressure 2.000 kN (200 tons)	
Hydraulic press Dunkes HZS 63	Pressure 630 kN (60 tons)	

Surface		
Sand blasting machines		
Polishing machine		

Measuring

Work space (mm)

Zeiss PRISO Ultra	VAST gold	x=900 y=1.300 z=650
Zeiss CNC-Coordinate-Measuring ACCURA II	VAST XTR	x=900 y=1.200 z=800
Zeiss Coordinate Measuring ScanMax	Manual measurement device with scanning measuring unit	x=850 y=400 z=470
Mahr Video Digital Measuring Microscope MM320		400 x 250
Tool presetting machine UNO 20/40		x=400 z=400
Zoller tool presetting machine V400		x=160 z=400 ø=320
Mahr Height measuring instrument 817 CLM-2D		bis 600
Tesa Mikrohite Height measuring instrument		bis 670
Mahr Raughness measuring unit MarSurf M 400		
Hommel-Tester T6 D / LV-2-50 Raughness measuring unit		
Contour measuring unit Conturograph CV 200		
Contour measuring unit ConturoMatic T2		
Wolpert Hardness measuring device - Rockwell	Proof load 15 - 150 kg	

Automation

Robot CRX10iAL	6-axis	
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KWS

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Maschinenliste



equipment V202601