

KWS

WERKZEUGBAU • SONDERFERTIGUNG

Equipment



KWS Kölle GmbH · Werkzeugbau-Sonderfertigung

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Telefon +49 (0) 8341 / 90 43-0 · Fax +49 (0) 8341 / 90 43-99
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HSC-Milling

Work space (mm)

HSC 30 linear	5-axes	320x300x280
Röders RXP 500	Carbide machining Graphite extraction system	500x400x240

Milling

DMU 60 eVo linear	5-axes, CNC-swivel rotary table pallet changer	505x500x500
DMU 40eVo	5-axes CNC-swivel rotary table	400x400x375
DMU 75 monoBlock	5-axes CNC- swivel rotary table	750x650x560
Maho DMU 50 eVolution	5-axes CNC- swivel rotary table	500x420x380
Hurco VMX 42	5-axis	1060x610x610
Hurco VMX 42	3-axis	1060x610x610
Hurco VMX 30	3-axis	760x510x610
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

Gildemeister CTX beta 800 TC	6-sided complete machining	ø 400x600
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Hard Turning – High Precision Turning

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

		Work space (mm)
Gildemeister NEF 600		ø 500x1250
Gildemeister CTX 400	Driven tools, C-axis	ø 200x600
Gildemeister CTX 200	Driven tools, C-axis	ø 160x350
Hurco TM 8	Integrated index arm	ø 305 x 475
GDW Zugspindeldrehmaschine LZ 350	Chuck device Eccentric chuck	ø 200x750
GDW Zugspindeldrehmaschine LZ 280S		ø 160x670
Böhringer VDF		ø 400x1100

EDM – Wire cut

AGIE-Cut excellence 2	Fine wire guidance ø 0,1 Surface roughness Ra = 0,1 µm	350x250x256
AGIE-Cut evolution 2	Fine wire guidance ø 0,2 Surface roughness Ra = 0,2 µm	350x250x256
GF CUT 2000X	Fine wire guidance ø 0,1 Surface roughness Ra = 0,08 µm Round axis, APC	350x250x256
GF CUT 3000	Fine wire guidance ø 0,07 Surface roughness Ra = 0,08 µm	500x350x256
GF CUT 3000	Fine wire guidance ø 0,07 Surface roughness Ra = 0,08 µm	500x350x256
Agie Progress 3		500x350x420

EDM – Die sinking

AGIETRON HYPERSPARK 3	C-axis, Pallet system	500x350x500
AGIETRON HYPERSPARK 2	C-axis, Pallet system	350x250x350
GF FORM 600 X	C-axis, Pallet system	600x400x500

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EDM – Hole Drilling

		Work space (mm)
AGIEDRILL EDM Hole Drilling	Holes \varnothing 0,2 - \varnothing 3,0	300x200x300
CASTEK EDM Hole Drilling SD 16B	Holes \varnothing 0,3 - \varnothing 3,0	300x200x200
Huber 600 OCT	Bohrungen \varnothing 0,1 - \varnothing 3,0	600x400x300

Jig-Grinding

		Work space (mm)
Hauser CNC 4SM	Face grinding motor	500 x 290 Holes up to \varnothing 280
Hauser S40 CNC	9.000-160.000 U/min	650 x 460

Cylindrical grinding

Studer S40-4 CNC	Contouring system for profile grinding and profiling of grinding wheels	\varnothing 250x650
Weiss W11-650	External-, internal and face grinding	\varnothing 300x650

Flachschleifen

ASYST CNC AE 525 Duo Grind	CNC-profile grinding machine controlled round table	600x230
Jung JF 520 MS	Diaform device Sinus magnet plate	600x200
Jung JF 520 D	Sinus magnet plate	600x200
Jung HF 50 RD	Diaform device Sinus magnet plate	500x200
Jung HFR 30 HR	Horizontal round table	\varnothing 350x160
ABA/FFU 750/50		750x500
ABA/FFU 1500/75		1500x750

Honing

Sunnen MBC 1800-G		from \varnothing 1,5 to 100,0
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Laser marking

Rofin Baasel Lasertech	Controlled round axis	Work space (mm)
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Others

Drilling		up to \varnothing 50
Threading machine		
Band saw horizontal HBS 500 S		500x320
Band saw vertical		
Bow Saw		\varnothing 180
Welding with inert gas and electrical		
Hardening and tempering furnaces	up to 1000 °C	
Inductive hardening and soldering		

Presses

Toggle lever press Gräbener GK 180	Pressure 1.800 kN (180 tons)	
Hydraulic press Exner EX40-S	Pressure 400 kN (40 tons)	
Die typing press	Pressure 10.000 kN (1.000 tons)	
Tooling-Testingpress Hessmert POS 200.4	Pressure 2.000 kN (200 tons)	
Hydraulic press Dunkes HZS 63	Pressure 630 kN (60 tons)	

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Surface

		Work space (mm)
Sand blasting machines		
Polishing machine		

Measuring

Zeiss CNC-Coordinate-Measuring ACCURA II	VAST XTR	x=900y=1200z=800
Zeiss Coordinate Measuring ScanMax	Manual measurement device with scanning measuring unit	x=850 y=400 z=470
Mahr Video Digital Measuring Microscope MM320		400x250
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		up to 600
Tesa Mikrohite Height measuring instrument		up to 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	

KWS Kölle GmbH – The Company

Tool making and precision manufacturing with 100% satisfaction guarantee

KWS is the first adress for solutions in tool making and assemblies. Excellent solutions support our customers sustainable in their success.

High precision Single parts and small batch series are manufactured at KWS with narrowest tolerances.

With its Production- and Assemblysystems delivers KWS holistic solutions to the customers.

With our products we make a lasting contribution to the success of our customers. KWS is with its products partner of diverse customers in different branches.



More than 40 years experience

KWS has more than 40 years experience in tool making an precision parts. Since 2018 Christian Streit has been managing the company.

Highly qualified employees

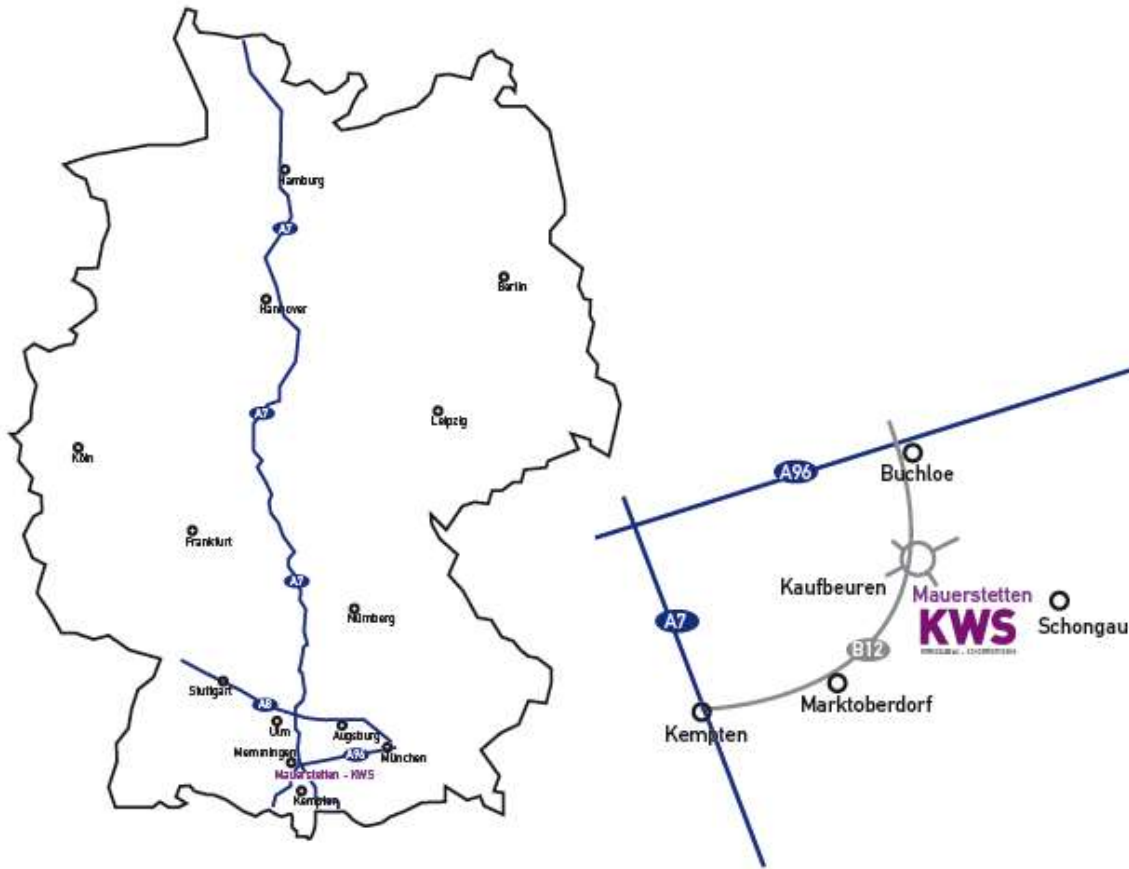
KWS employs about 60 highly qualified employees. Christian Streit and his team will be at your side from the very first idea.

Modern equipment ensures high quality

KWS manufactures on latest tooling machines and has all necessary technologies available on site.

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