Automatic Crankshaft Grinding Machine

K 1200-CNC



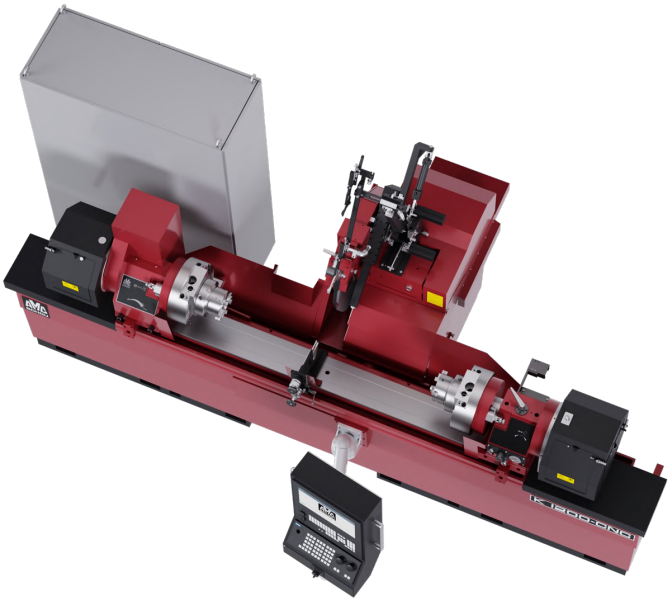
A unique crankshaft grinding machine for medium- to high-volume engine remanufacturing applications.

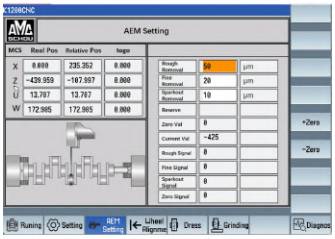
The Benefits of Precision

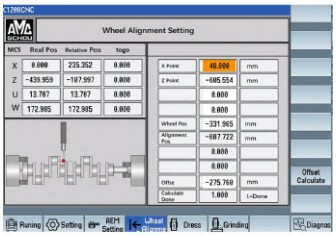


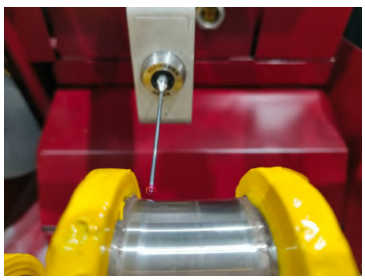
Equipped with the latest SIEMENS 828D control system, enabling precise positioning and grinding with in-process measurement.
Based on the AMC-SCHOU patented crosswise adjustment throwhead faceplate and high-precision X and Z axis movements, the machine ensures consistent high-quality machining.
An optimal solution for efficient and economical crankshaft production and remanufacturing, compared to orbital production lines or manually operated grinding machines.

Rigid yet lightweight cast iron construction, with stress-relieved bed and table, ensures long-term stability and sustained precision of the K 1200-CNC, proven by thousands of installations worldwide.
The flexible design allows quick changeover between different crankshaft models within minutes.

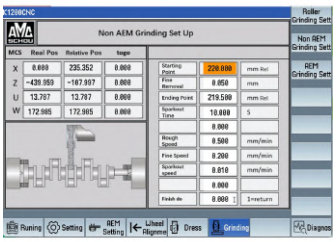


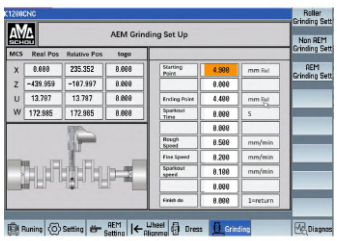






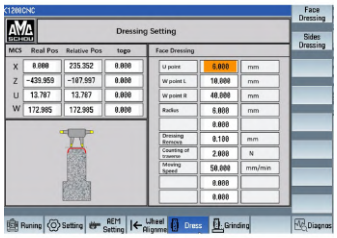
Probe-based thrust position detection enables automatic journal-to-journal alignment for both new crankshaft production and remanufacturing.

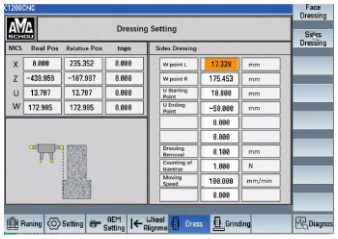




CNC-controlled grinding wheel feed for roughing, finishing, and spark-out cycles. High-precision SKF ball screws and linear glass scales ensure positioning accuracy down to 0.0005 mm increments.

CNC-controlled dressing device maintains the grinding wheel condition on face, sides, and radius automatically. Integrated wheel diameter compensation ensures tight tolerances on all journals.



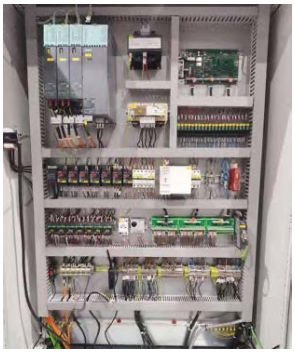




Key components such as bearings, control systems, ball screws, and electrical parts are sourced from leading European manufacturers, ensuring high performance, durability, and global service support.

In addition to conventional abrasive wheels, high-speed CBN grinding wheels are available for high-volume production, offering reduced dressing and increased cutting efficiency.





OPC UA interface supports remote monitoring and integration with advanced production management systems.



The AMC-SCHOU AAEM system enables in-process measurement of roundness and diameter of each journal, with automatic loading and unloading of the Y-type caliper via program control.





Available with basic guarding or full enclosure, compliant with CE, UL, and other safety standards.

15” touchscreen combined with an industrial-standard control panel provides an intuitive interface, suitable for both CNC operators and technicians experienced with manual machines.



AMC-SCHOU CRANKSHAFT GRINDING MACHINES - MODEL CNC

TECHNICAL SPECIFICATIONS			K 1200-CNC
Max. distance between chucks		mm	1,200
Max. distance between centres		mm	1,200
Swing over table		mm	460
Max weight between centres		kg	200
Max weight between chucks		kg	400
Max. stroke length (2 x offset centres)		mm	160
Steady rest capacity		mm	20 – 100
Max. workpiece diameter	New wheel	mm	410
	Headstock chuck	mm	155
	Tailstock chuck	mm	155
Headstock rotation (stepless)		rpm	5 – 100
Table speed		mm/min	0 – 3,000
Wheel slide rapid movement		mm/min	0 – 2,000
Grinding wheel	Speed	rpm	940
	Diameter	mm	660
	Width	mm	19 – 50
Grinding length		mm	1,200
Motor power	X axis	kW	3.3
	Z axis	kW	2.3
	C axis	kW	2.3
	U axis	kW	0.75
	W axis	kW	0.75
	Wheel slide	kW	4
	Hydraulic system	kW	1.1
	Coolant pump	kW	0.12
Working space (L x W)		mm	4,220 x 1,700
Height (floor to spindle centre)		mm	1,120
Dimensions	Length	mm	3,750
	Width		1,750
	Height		1,475
Net weight (approx.)		kg	3,300
Shipping data	Weight	kg	3,850
	Volume	m^3	17.02

Tooling

Grinding wheel	Outer diameter	mm	660
	Inner diameter		203.2
	Width (min–max)		19 – 50
Chuck (standard)	Diameter	mm	155
	Capacity		155
Steady rest	Standard capacity	mm	20 – 100

Specifications, descriptions, dimensions and illustrations are subject to change without prior notice.

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