K series Crankshaft Grinding Machine

Model K 1200-P, K 1500-P, K 2000-P, K 2700-P/PF, K 3700-P





Precision Grinding for Crankshafts
– Powered by Intelligent PLC Control

The Benefits of Precision

The AMC-SCHOU K series is a high-precision crankshaft grinding machine designed for large and heavy crankshafts up to 3700 mm.
Built with robust construction and equipped with an advanced PLC-controlled system, the K series ensures:

- High repeatability
- Efficient operation
- Reduced operator dependency
- Long-term reliability

Each machine is thoroughly tested before delivery to guarantee consistent grinding performance over many years.



Heavy-Duty Steady Rest
Heavy-duty steady rest for large crankshafts. Essential for heavy machining applications.



Set-Up Indicator
Set-up indicator with quick-setting dial gauge. No tools required for installation or removal.



Stroke Length Measurement
Device for measuring stroke length, providing direct readings for fast and accurate throw setting.



V-Gauge
Crankshaft centering V-gauge for fast and precise positioning of journals.



Crankshaft Sag Gauge (Ø85–Ø160 mm)
Gauge for measuring crankshaft deflection.



GRINDING WHEEL HUB.



FIXTURE FOR SETTING-UP
between centers w. driving dogs 45-95mm



Face and Side Dresser
Combined face and side dresser with quick mounting. Can be used while the crankshaft remains mounted in the machine.



Radius Dresser
Radius dresser with scale for direct radius reading. Easy mounting allows use with the crankshaft in position.



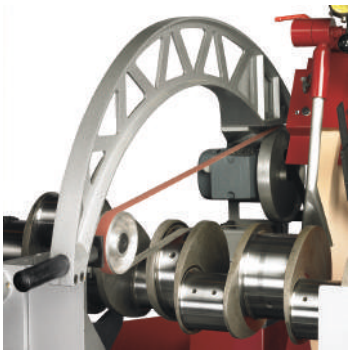
Electric Face Dresser
Electric face dresser for fast and efficient use during crankshaft grinding operations.



AMC Electronic In-Process Gauging
Easy-to-use measuring system for determining grinding allowance and monitoring roundness during machining.



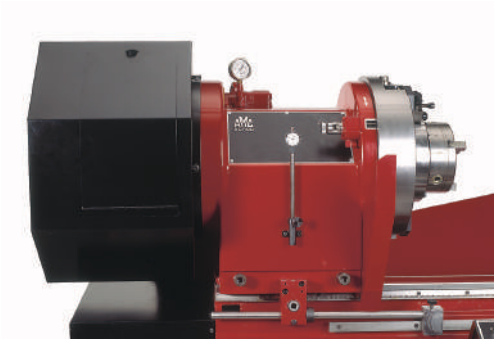
Counterweights
Additional counterweights can be fitted to balance large crankshafts. Essential for heavy-duty applications.



Belt Polishing Unit



Stroke Throw Setting Device



Safety Guards



Grinding Wheel Balancing Stand



Axial Control of Journal Position



The Quickest and Most Accurate Set-up System Available.

AMC-SCHOU – CRANKSHAFT GRINDING MACHINES - MODEL P
CURRENT STANDARD MODELS:

TECHNICAL SPECIFICATIONS			K 1200-P	K 1500-P	K 2000-P	K 2700-P/PF	K 3700-P
Max. distance between chucks		mm	1,200	1,625	2,250	2,750	4,000
Max. distance between centres		mm	1,220	1,600	2,190	2,750	4,000
Swing over table		mm	460	690		690/750	750
Max weight between centres		kg	200	600			
Max weight between chucks		kg	400	1,000		1,400	
Max. stroke (2 × offset centres)		mm	160	280			
Steady rest capacity	Standard	mm	20 – 100	25 – 180			
	Heavy-duty		N/A	30 – 170			
Extra large heavy-duty steady rest K 2700-PF & K 3700-P only			N/A			150-300	
Max. workpiece diameter	With new grinding wheel	mm	400	600			
	Over workhead chuck		155	190			275
	Over tailstock chuck		155	190			275
Workpiece spindle speeds stepless		rpm	5 – 100	5 – 90			
Table speed stepless		mm/min	0 – 3,000	0 – 4,000			
Wheel slide rapid movement		mm/min	0 – 2,000	0 – 3,000			
Motor power	Grinding wheel	kW	4.0	5.5		7.5	
	Hydraulic system		0.75	0.75			
	Workhead		2.3	2.5			
	Coolant pump		0.12	0.12			
	Table		2.3	2.6			
	Wheel slide		3.3	3.3			
Grinding wheel	Speed	rpm	940	760			
	Diameter	mm	660	813			
	Width (min–max)	mm	19 – 50	19 – 63.5			
Height (floor to spindle centre)		mm	1,120	1,120			1,180
Dimensions	Length	mm	3,750	3,700	4,795	6,000	9,500
	Width		1,750	2,030			
	Height		1,475	1,550			1,610
Working space required		mm	5,200 × 1,700	5,405 × 2,030	7,045 × 2,030	8,850 × 2,030	12,500 × 2,100
Net weight (approx.)		kg	3,300	4,300	5,400	6,700	7,900
Shipping data	Weight	kg	3,850	5,560	6,600	7,800	9,200
	Volume	m^3	17.02	22.09	26.59	34.52	42.58

Tooling

Grinding wheel	Outer diameter	mm	660	813
	Inner diameter		203.2	203.2
	Width (min–max)		19 – 50	19 – 63.5
Chuck (standard)	Diameter	mm	155	200
	Capacity		155	250
Chuck (optional)	Diameter	mm	N/A	230
	Capacity		N/A	275
Steady rest	Standard capacity	mm	20 – 100	25 – 180
	Lightweight capacity		N/A	25 – 160
	Heavy duty capacity		N/A	30 – 175

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

The Benefits of Precision

AMC-SCHOU A/S
Niels Bohrs Vej 41, DK-8660 Skanderborg, Denmark
Tel: +45 87 54 54 54
E-mail: info@amc-schou.dk

AMC-SCHOU (China) Co., Ltd.
No. 1201 Fuxin Rd., Zhangjiagang, Jiangsu, China
Tel: +86 512 5631 9061
E-mail: info@amc-schou.com.cn