

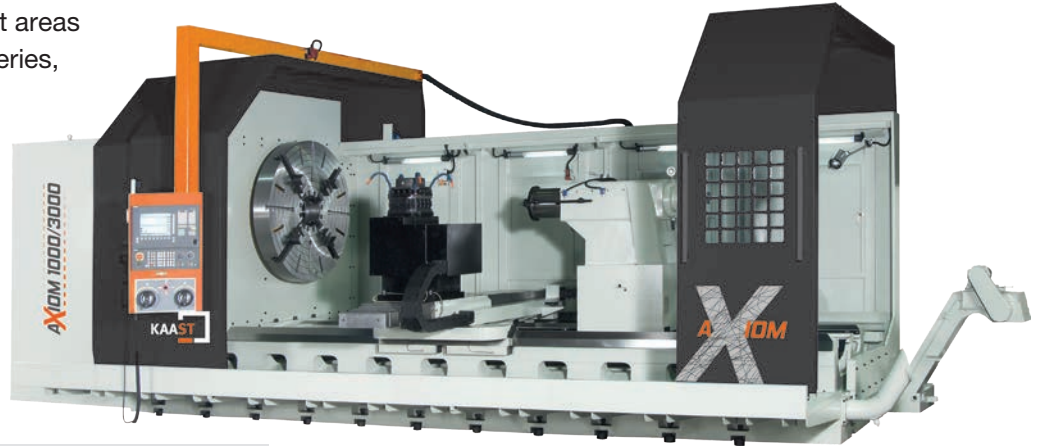


CNC flat bed lathe

AXIOM 800 • 1000 • 1100 • 1200 • 1300

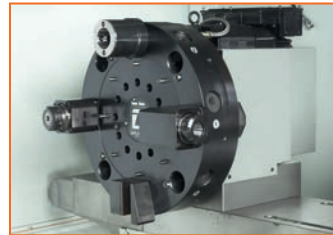
63x60" to 102x1180"

- Large ballscrews ensure long-lasting precision
- The standard telescopic enclosure can be moved for loading and unloading of the machine, to provide good accessibility to the most important areas
- For the machines of the AXIOM Series, only components from leading manufacturers were used so as to ensure maximum machine availability
- The impressively high workpiece weights for this class of machines can be significantly increased by steady-rests from SMW-Autoblok



Standard configuration

- ✓ Fagor 8055i CNC control
- ✓ 2 Electrical handwheels (MPG)
- ✓ 4-jaw independent chuck
- ✓ Heat exchanger for electric cabinet
- ✓ Backsplash guard
- ✓ Coolant system
- ✓ Spindle sleeve and dead center
- ✓ Tailstock with towing device
- ✓ Automatic lubrication
- ✓ Gear unit (automatic switching)
- ✓ Guideways (Induction hardened and ground)
- ✓ Work light
- ✓ Tool kit
- ✓ Leveling pads
- ✓ Operation manual



Tool change with live tools



3-pos. guideways in Z-axis

Specifications		AXIOM				
		800 63" swing	1000 79" swing	1100 87" swing	1200 95" swing	1300 102" swing
Workpiece length	mm	1500, 2000, 3000, 4000, 5000, 6000, 7000, 8000, 9000, 10000, 11000, 12000, 13000, 14000, 15000, 16000, 17000, 18000, 19000, 20000, 21000, 22000, 23000, 24000, 25000, 26000, 27000, 28000, 29000, 30000 (59-1181")				
Swing over bed	mm	1600 (63")	2000 (79")	2200 (87")	2400 (95")	2600 (102")
Swing over carriage	mm	1120 (41")	1460 (58")	1660 (65")	1810 (71")	2010 (79")
Bed width	mm	888 (35")	1150 (45")		1400 (55")	
Chuck mount		A2-15, A2-20, A2-20, A2-28		A2-15, A2-20, A2-20, A2-28		
Spindle bore	mm	Ø230 (9"), Ø310 (12"), Ø360 (14"), Ø410 (16")		Ø230 (9"), Ø310 (12"), Ø360 (14"), Ø410 (16")		
Speeds	rpm	20-400, 5-300, 5-250, 5-250		20-400, 20-350, 20-300, 20-250		
Axis travel	X mm	800 (32")	1000 (39")	1100 (43")	1200 (47")	1300 (51")
	Z mm	as peak width is reduced by 650 mm (26")		as peak width		
Axis feed	X m/min	5 (197"/min)				
	Z m/min	5 (197"/min)				
Cutting feed rate	mm/rev	0.001-500 (0.00004-20"/rev)				
Main drive motor	kW	28 (40 Hp)		51 (70 Hp)		
Power servo motor	X kW	3.7 (5 Hp)		5.5 (7.3 Hp)		
	Z kW	8 (11 Hp)		17 (23 Hp)		
Ballscrew diameter	X mm	40 (1.6")		50 (2")		
	Z mm	80 (3.1")				
Tailstock quill diameter	mm	200 (7.9")	250 (9.8")		300 (11.8")	
Tailstock quill travel	mm	450 (17.7")	500 (20")		600 (23.6")	
Tailstock taper		MT6		MT7		

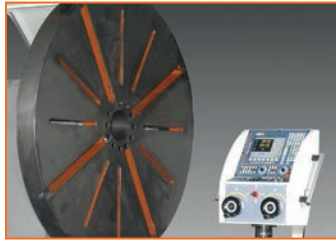
*The above specifications are subject to change without prior notice. No liability for printing mistakes. Machine may be shown with optional equipment.



CNC flat bed lathe

AXIOM 330 • 430 • 550 • 600 • 700

26x40" to 55x630"



- Powerful spindle motors with high torque for efficient processing even in difficult to cut materials
- The machine bed impresses with extremely high stiffness, due to the heavily ribbed casting
- Large bed widths from 585 to 1400 mm (23 to 55")

Optional configuration

- Siemens CNC control
- Fanuc CNC control
- Chip conveyors
- Chucks and face plates (various sizes)
- Spindle oil cooling
- Spindle taper on the rear side (left side) of the spindle box
- Hydraulic-driven tailstock quill
- Steady rest (various sizes)
- Follow rest (various sizes)
- Spindle drilling up
- to Ø 405 mm
- 4-way hydraulic tool clamping system
- 8 or 12-tool magazine (Diplomatic)
- VDI 40/50/60 tool changer with driven tools
- Integrated C-axis servo motor with HEIDENHAIN (Incremental ERM 280 with a positioning accuracy of 0.03°)
- Rear chuck system



Tailstock with hydraulic quill



4-pos. hydraulic tool changer

Specifications		AXIOM				
		330 26" swing	430 34" swing	550 43" swing	600 47" swing	700 55" swing
Workpiece length	mm	1000, 1500, 2000, 3000, 4000, 5000, 6000, 7000, 8000, 9000, 10000, 11000, 12000, 13000, 14000, 15000, 16000 (39.4–630")				
Swing over bed	mm	660 (26")	860 (34")	1100 (43")	1200 (47")	1400 (55")
Swing over carriage	mm	310 (12")	510 (20")	750 (29")	820 (26")	1020 (40")
Bed width	mm	558 (22")		692 (27")		
Chuck mount		D1-11, A2-11, A2-15, A2-20, A2-28			A2-11, A2-15, A2-20, A2-28	
Spindle bore	mm	Ø130 (5"), Ø165 (6.5"), Ø230 (9"), Ø310 (12"), Ø360 (14"), Ø410 (16")			Ø165 (6.5"), Ø230 (9"), Ø320 (13"), Ø360 (14"), Ø410 (16")	
Speeds	rpm	40–1200, 20–660, 20–660, 20–400, 20–300, 20–250			20–660, 20–660, 20–310, 20–300, 20–250	
Spindle taper		MT15				
Axis travel	X mm	330 (13")	430 (17")	550 (21.6")	600 (24")	700 (28")
	Z mm	as peak width is reduced by 350 (14")			as peak width is reduced by 650 (26")	
Axis feed	X m/min	5 (197"/min)				
	Z m/min	5 (197"/min)				
Cutting feed rate	mm/rev.	0.001–500 (0.00004–20"/rev)				
Main drive motor	kW	22 (30 Hp)	30 (40 Hp)		37 (50 Hp)	
Power servo motor	X kW	2.5 (3.3 Hp)			3.7 (5 Hp)	
	Z kW	8 (11 Hp)			11 (15 Hp)	
Ball screw diameter	X mm	40 (1.6")				
	Z mm	63/80 (2.5/3.1")			80 (3.1")	
Tailstock quill diameter	mm	115 [opt. 160] (4.5" [opt. 6.3"])			140 [opt. 200] (5.5" [opt. 7.9"])	
Tailstock quill travel	mm	300 (11.8")		350 (13.8")	350 (13.8")	
Tailstock taper		MT6				

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