



AX Series

**Turning centre with 3 axes
High precision multitasking machine**

Performance
Technology
Power
Accuracy





AX Series

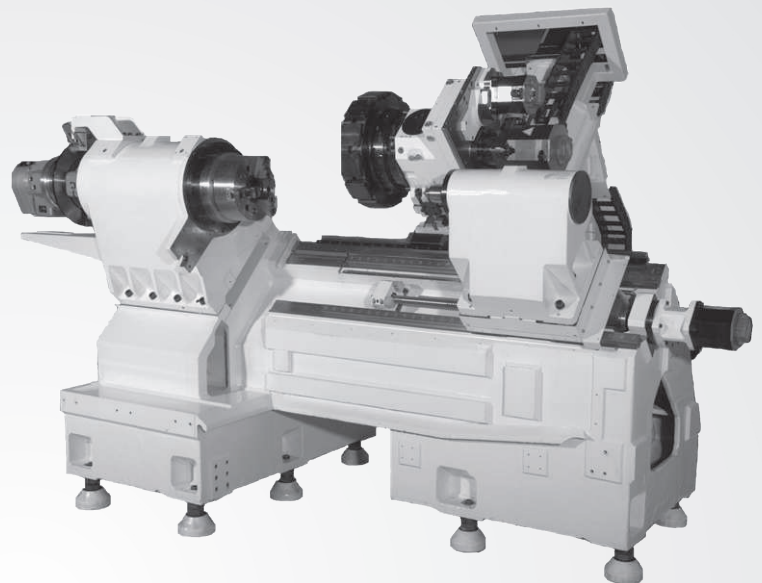
Flexible and rigid, the AX range has been designed to meet the most varied needs of the customers.

Thanks to a C axis and a Y axis, the turning center AX is able to performe all kinds of turning and milling operations.

It is the ideal tool for mass production of small mechanical parts for automotive, hydraulic industry or electronic parts.

Structure and axes

- Architecture with 45° slant bed
- High-quality cast iron structure for maximum stiffness
- Rigid and robust monoblock construction for excellent vibration damping
- Very high quality of surfacing
- Linear guide rails equipped with roller recirculating bearings to increase stiffness with feedrates up to 35 m/min
- Positioning accuracy and high repeatability thanks to the measuring scales on X and Z linear axes
- Machining of complex parts in one setup



Numerical controller

- Ergonomics design, color screen and complete alfanumerical keyboard
- Accessible and intuitive
- Graphic simulation before machining for an optimal safety
- Conversational programming with ShopTurn

Productivity

- Possibility to add equipments such as various hydraulic chucks with jaws, bar feeder, tool probe, coolant 10 bar through the tool center, batch of tool holders, parts catcher, steady rest

Ergonomics

- Orientable and easy-to-use control panel for the operator
- Excellent chips removal
- Compact machine, reduced footprint



Turning spindle

- High speed spindle and rigid spindle headstock
- Main turning spindle equipped with C axis
- Hydraulic chuck
- Secondary spindle in option ; possibility to synchronize both spindles
- Motorized tailstock

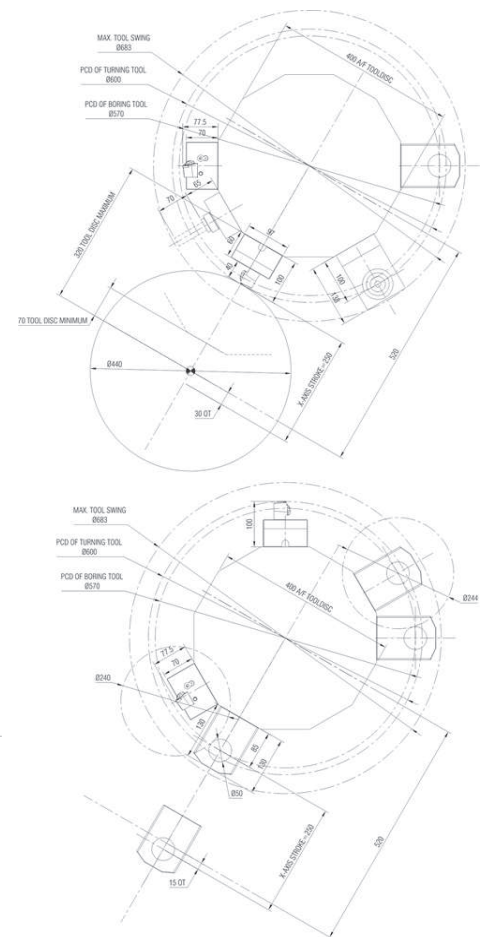
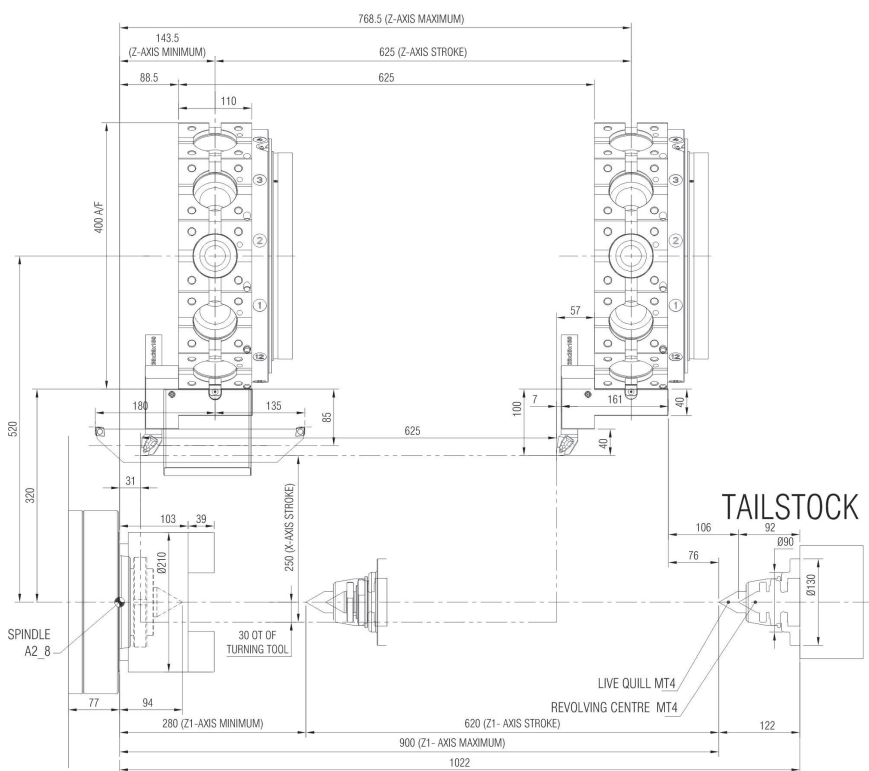
Y axis

- Possibility to make milling operations thanks to the Y axis

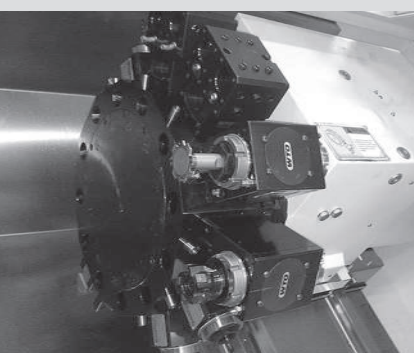
Turret

- 12 live tools
- BMT attachment for higher rigidity
- Bidirectional turret for rapid tool changement

Interference layout (example with AX 300)



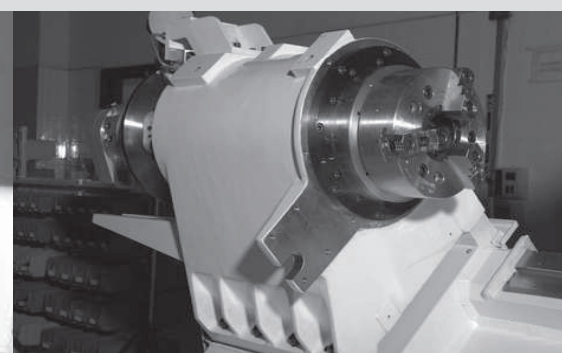
Turret



AX 300 with tailstock



Chuck



Technical characteristics

Capacities		AX 200	AX 200 M	AX 200 MY	AX 200 MSY	AX 300	AX 300 M	AX 300 MY	AX 300 MSY
Max. Ø swing over bed	mm	550			550	650	650		
Max. turning Ø	mm	350			350	480	440		
Max. turning length	mm	325 or 625*			625	600	600		
Travels									
X	mm	200				250			
Z	mm	325 or 625*			625	625			
Y	mm	-	-	± 40	± 40	-	-	± 50	± 50
Rapid feedrates	m/min	X = 24 - Z = 30		X / Y = 24 - Z = 30		X = 24 - Z = 30		X / Y = 24 - Z = 30	
Main spindle									
Rotating speed	rpm	5.000				4.000			
Spindle nose		A ₂₆				A ₂₈			
Power	kW	16,8 - 21,6				28 - 36			
Torque	Nm	100 - 135				300 - 385			
Spindle bore	mm	65				75			
Max. bar capacity	mm	52				65			
Secondary spindle (option)									
Rotating speed	rpm	-	-	-	5.000	-	-	-	5.000
Spindle nose		-	-	-	A ₂₆	-	-	-	A ₂₆
Power	kW	-	-	-	16,8-21,6	-	-	-	16,8-21,6
Torque	Nm	-	-	-	100 - 135	-	-	-	100 - 135
Spindle bore	mm	-	-	-	65	-	-	-	65
Tailstock									
Taper		MT 3				-	MT 4		-
Quill Ø	mm	85				-	130		-
Quill travel	mm	330/630				-	620		-
Thrust	daN	500				-	500		-
Revolver turret									
Type of turret		Servo			Live tools		Servo		Live tools
Qty of stations		12				12			
Live tool holder		VDI 30		BMT 45		VDI 40		BMT 65	
Max. tool speed	rpm	-			4.500		-		4.000
Accuracies X / Z (VDI DGQ 3441)									
Measuring scales included									
Positioning (P)	mm					0,005			
Repeatability (Ps medium)	mm					0,003			
Over-all measurements									
Weight of the machine	kg	4.500	4.600	4.800	5.000	6.300	6.500	6.500	6.700
Length	mm	1.735	1.735	1.735	1.735	2.050	2.050	2.050	2.050
Width	mm	2.910	2.910	2.910	3.220	4.770	4.770	4.770	5.050
Height	mm	1.960	1.960	1.960	1.960	2.205	2.205	2.205	2.205

*Depends on clamping, tooling and workpiece.

All descriptions, data and photos are supplied for information only. Huron Graffenstaden reserves the right to make changes to the models described for technical or commercial reasons at any time. The standard description, accessories and technical data conforms to our pricelist, and not to the photo of machines shown in the catalogue.



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