



# CNC TURN-MILL CENTERS FCT 700, FTM 700, FTM 1000

POWER...PRECISION...PERFORMANCE!



for impressive  
performances



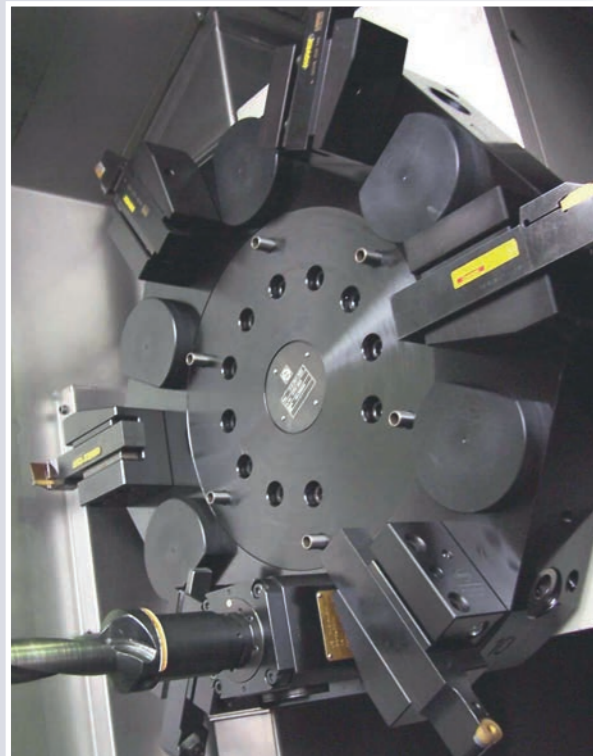
## FCT 700

FCT 700 lathe is a perfect slant-bed lathe for fast, precise and heavy-duty turning and milling of large workpieces. FCT 700 provides a significant increase in productivity. The 70° inclined bed ensures optimal chip removal, easy setting and inspection of the tools and ergonomic access to the workpiece for the operator.



## FTM 700 / 1000

FTM 700/1000 slant bed CNC lathe has a heavy duty 60° inclined bed with 70° column. Thanks to this exceptional solution the carriage does not reduce the turning diameter on total length. Swing over bed (real turning diameter) is 700/1000mm. Distance between centers: from 1.500mm up to 12.500mm.



Standard 12 position tool turret

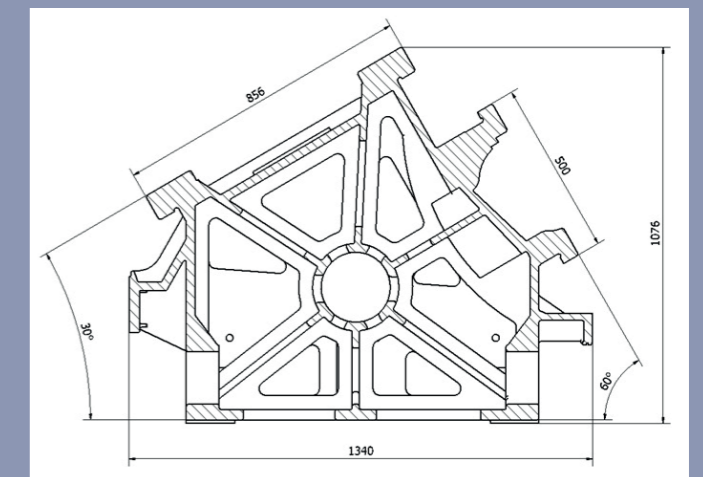
### MACHINE STANDARD EQUIPMENT

- CNC Siemens 840D SL
- 12-position tool turret Sauter
- Complete coolant system
- Hydraulic tailstock quill with built-in bearing system
- Hydraulic aggregate
- Programmable positioning of tailstock with come-along system; hydraulic clamping to bed
- Chip conveyor
- Linear scale (direct measuring system) on the X-axis for higher repeatability and position accuracy
- Complete working area enclosure



Hydraulic tailstock with automatic clamping to bed. Can be equipped with separate NC-drive

Heavily ribbed 60° inclined slant bed. **Monoblock one-piece bed** available up to 10.500 mm turning length



# MACHINE OPITIONAL EQUIPMENT

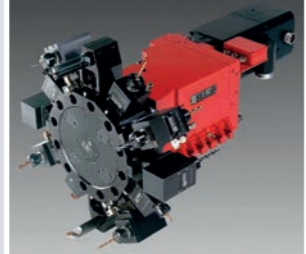
## MANY DIFFERENT TOOLING SYSTEMS



Tool turret for driven tools



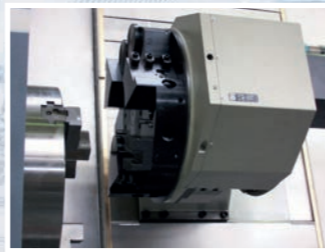
Turret with star type tool-disc Sauter or Baruffaldi



Tool magazine disc or chain type

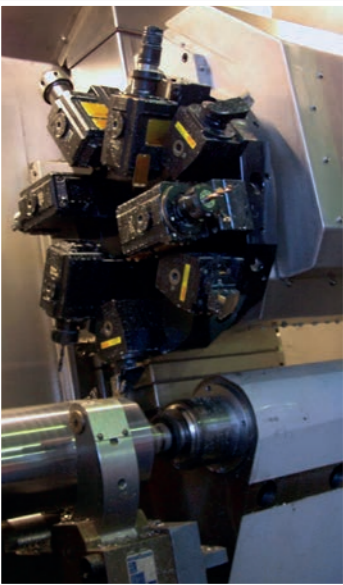


B-axis milling-turning head



Special disc with V-seats for boring bars

Automatic measuring arm is hidden in the spindle box area behind automatic door. It comes into working area from the top of spindle for measuring operations. With this system it is possible to measure the tools when the work piece is installed on the machine.



Tool turret for driven tools with integrated Y-axis



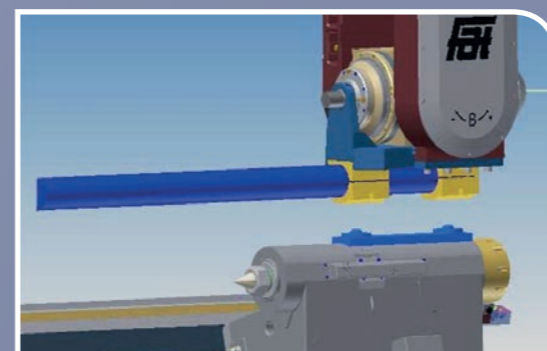
Manual tool measuring arm



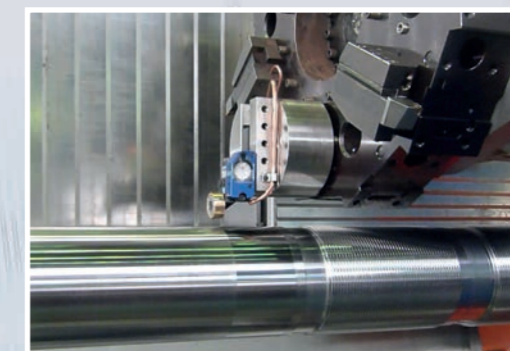
Combined tool setting system: non-contact measurement of rotating tools with laser and touch probe for static tools



Special boring bar attachment for deep boring operation. The unit is designed for boring bar 120 mm in diameter. The boring bar is mounted on swivel holder that lets the bar be put on parking position without disassembling.



Boring bar holder for milling head with parking position on tailstock



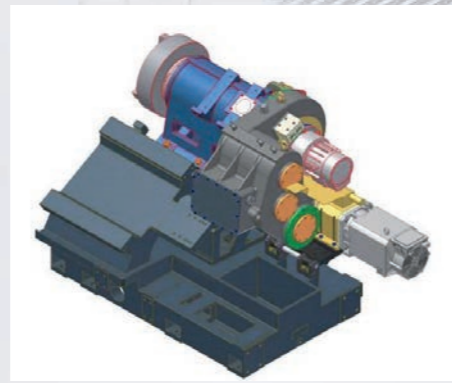
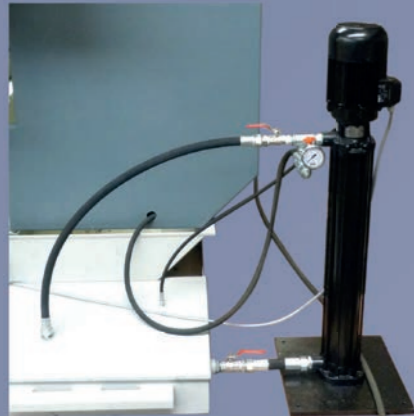
Burnishing with tool turret



Touch probe for work-piece measuring



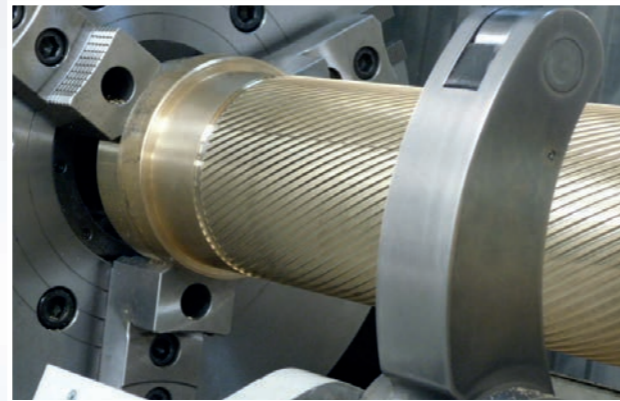
Coolant stations with high pressure pumps and filtration



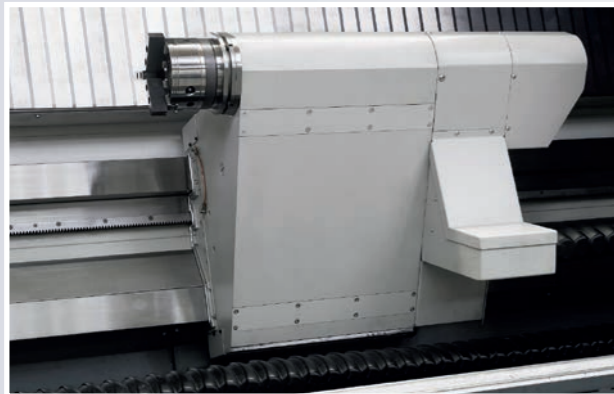
Additional heavy-duty gearbox for increasing torque of spindle



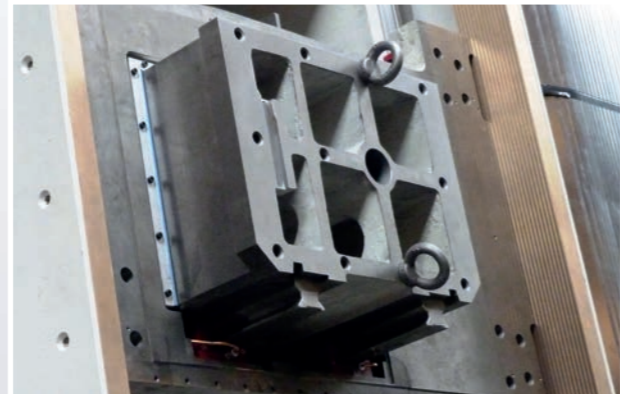
Oil mist extraction



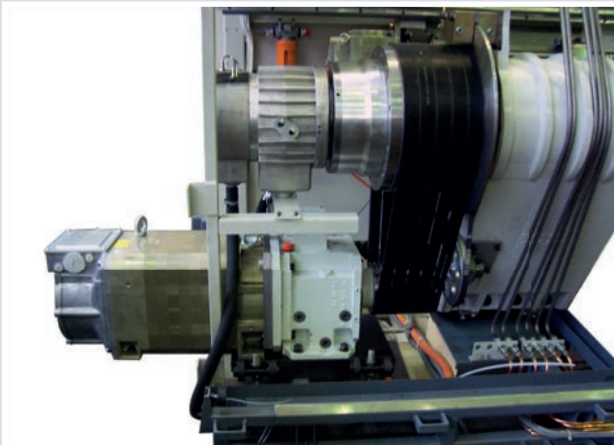
Hydraulic chuck



Motorized sub-spindle



Y-axis integrated with column



To achieve a higher torque at lower speeds for heavy machining of big workpieces, the machine is equipped with an automatic 2-step gearbox (option FCT 700).



Hydraulic self-centering steady rest. Can be equipped with separate NC-drive.

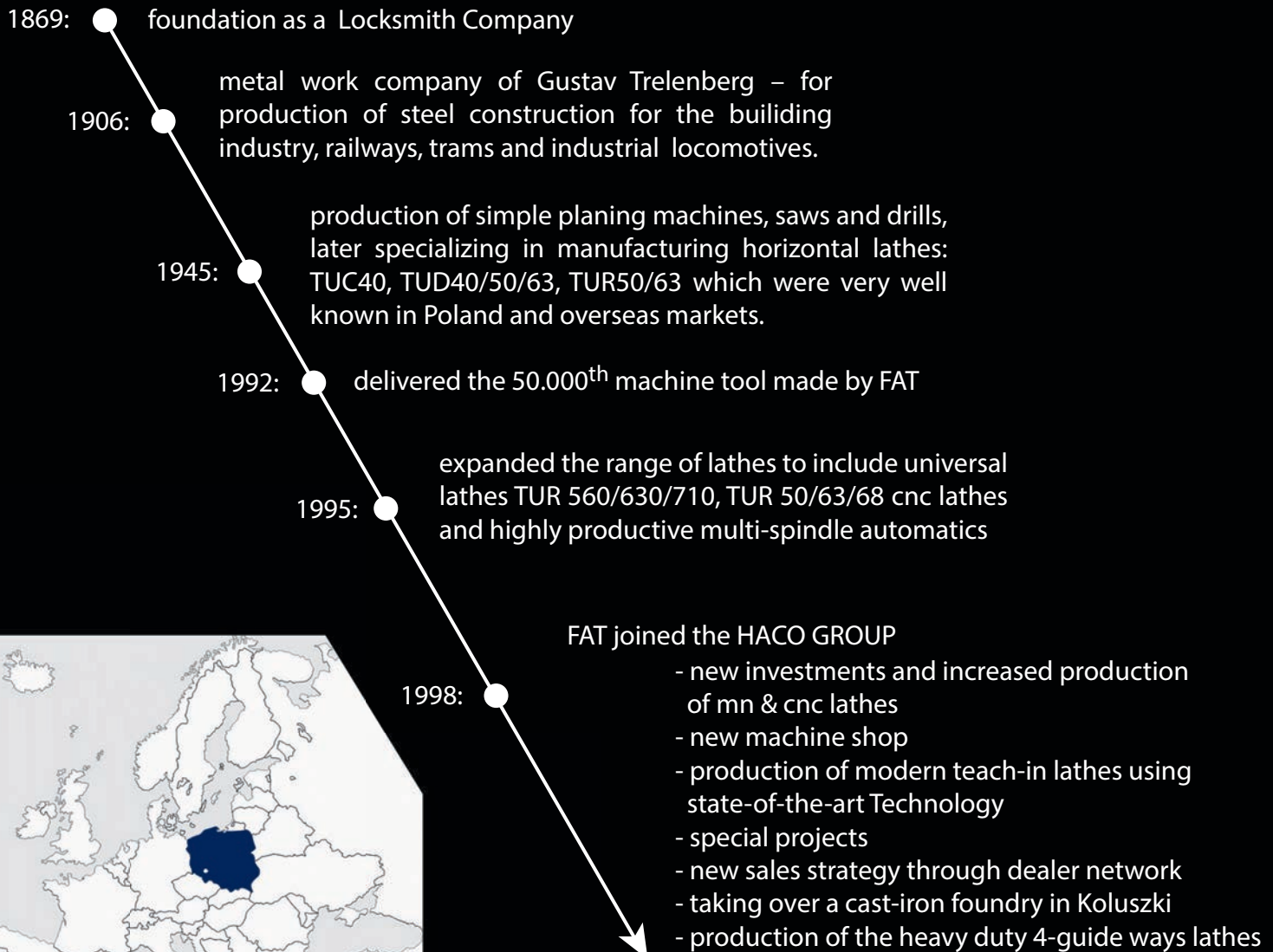
## TECHNICAL PARAMETERS

		FCT 700	FTM 700	FTM 1000
<b>CAPACITY</b>				
Distance between centers	mm	1.100 – 1.600 – 2.100 – 3.100 – 4.100	2.100 – 3.100 – ... – 12.100	1.500 – 2.500 – ... – 12.500
Swing over bed	mm	700	700	1.000
Swing over saddle	mm	490	700	1.000
Max turning diameter	mm	700	700	1.000
Max weight between centers (without steadies)	kg	2.500	6.500	7.500
Max weight in chuck only	kg	800	2.500	2.500
<b>HEADSTOCK</b>				
Number of spindle ranges		2 step automatic gearbox (option for FCT 700)		
Main drive motor power (S6)	kW	33	33	56
Max. turning torque (option with additional gear box)	Nm	750 (3.000)	3.700 (6.700)	4.000 (7.300)
<b>STANDARD SPINDLE</b>				
Spindle bore	mm	105	140	
Top spindle speed	rpm	2.200	1.800	
Spindle nose (DIN 55026 / ISO702/l)		A2-8	A2-15	
<b>SPECIAL SPINDLE</b>				
Spindle bore	mm	140/220	220/320/360/450	
<b>SADDLE</b>				
Cross slide travel X-axis	mm	460	660/990	
Y-axis travel	mm	±55	±100	±200
Rapid travel Z-axis	m/min	20	22	
Rapid travel X-axis	m/min	20	16	
Rapid travel Y-axis	m/min	10	10	
<b>TOOL TURRET</b>				
12-position tool turret for static tooling	DIN69880	VDI 50	VDI 50	VDI 60
Capacities of optional tool drive (max speed/power/torque)	rpm/kW/Nm	2.500 / 11,3 / 65		2.250/12,5/100
<b>TAILSTOCK</b>				
Quill diameter (built-in bearings for dead centre)	mm	120	160	200
Quill taper		MT 5	MT 6	MT 6
Quill stroke	mm	100	150	300
<b>GENERAL</b>				
Total length of machine				
FCT, FTM 700x2100 / FTM1000x2500	mm	6.000	8.300	8.850
FCT, FTM 700x3100 / FTM1000x3500	mm	7.400	9.300	9.850
FCT, FTM 700x7100 / FTM1000x7500	mm	-	13.300	13.850
Weight of machine (approx.)				
FCT, FTM 700x2100 / FTM1000x2500	kg	12.600	21.500	28.500
FCT, FTM 700x3100 / FTM1000x3500	kg	14.100	24.500	31.500
FCT, FTM 700x7100 / FTM1000x7500	kg	-	36.500	43.500
Width of machine	mm	2.360	3.000	3.000
Height of machine	mm	2.540	3.450	3.450

FAT Haco offers you the benefit of our vast experience – since the year 1945 over 50.000 machine tools have been sold in many countries around the world!

Our excellently equipped machine shop, assembly facility, research office and our own foundry allows us to manufacture most components by ourselves - complete from casting to the finished product. FAT works closely with you to develop the absolute best product for your needs. Our experience and quick reaction time will save you both time and money.

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