

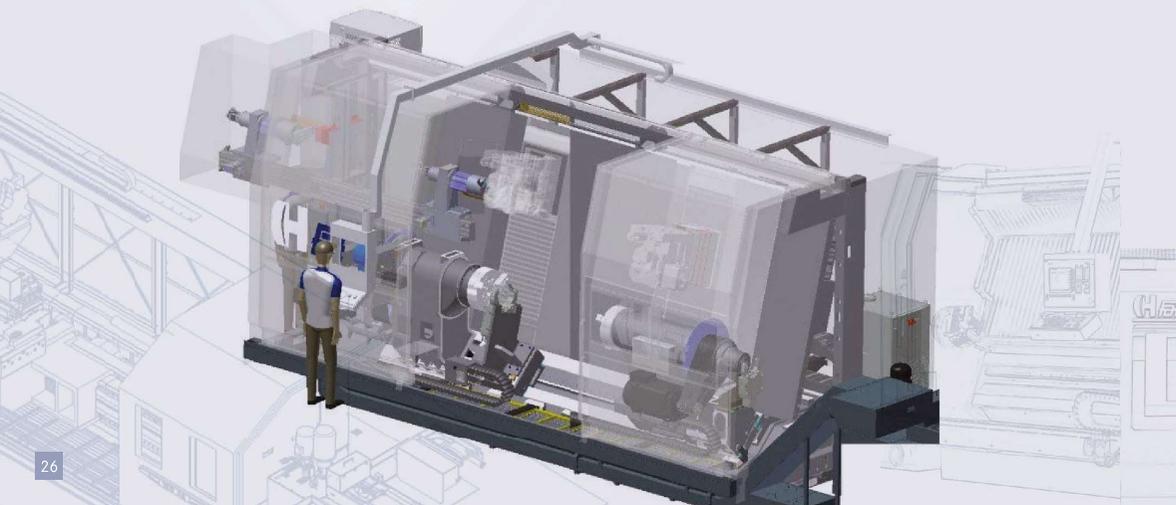
## FCTS 900

Modern machining center FCTS 900 is one of a range of CNC machine models manufactured in Europe by FAT-Haco. Due to the special design of the bed and the column, 900 mm turning diameter is not limited by the carriage slide. It ensures also optimum swarf removal, easy setting and operation, together with the best distribution of cutting forces. Constructed from high quality and high-tech components which offers manufacturers the highest level of machining with pure accuracy. The machine tool is available in three versions: standard FCTS 900, one with an integrated Y-axis (FCTS 900 Y) and another version, FCTS YH, with a higher column, enabling the integration of the milling head with the B axis, tool magazine and the extended Y-axis.



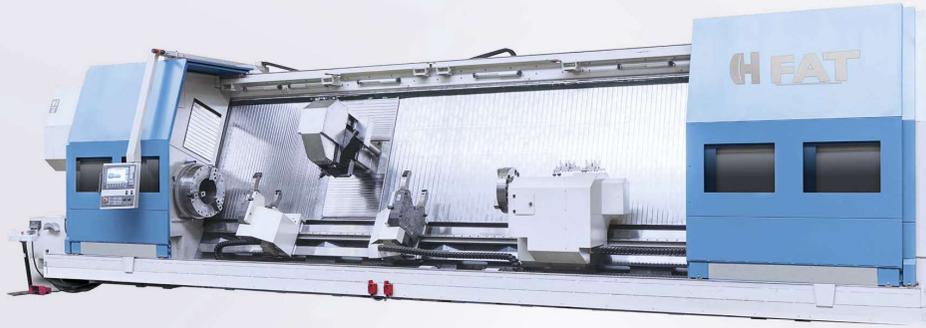
### STANDARD EQUIPMENT:

- Siemens Sinumerik One
- 12-position turret for static tools
- Complete coolant system
- Hydraulic tailstock quill
- Hydraulic aggregate
- Programmable positioning of tailstock with come-along system; hydraulic clamping to bed
- Linear scale (direct measuring system) of the X-axis for higher repeatability and position accuracy
- Complete working area enclosure
- Chip conveyor
- Absolute encoders of axial motors



FCTS YH

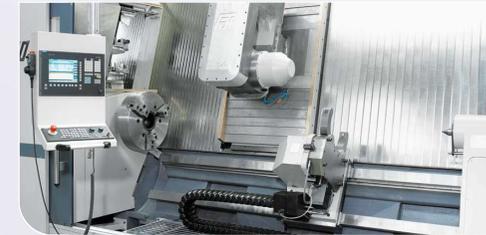
# OPTIONAL EQUIPMENT



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



Whirling aggregate



Hydraulic steady rest with independent independent NC drive



Pneumatic chuck with bore 360 mm (14.2")



Baruffaldi turret with a special disc



# OPTIONAL EQUIPMENT

## VARIOUS TOOLING SYSTEMS



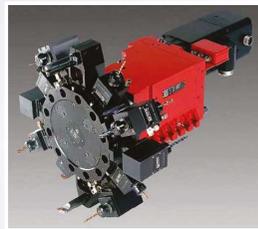
Turret with a special disc with axial and radial toolseats for driven and static tools



B-axis milling-turning head



Tool magazine



Turret with star type tool disc



Special disc with slots 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



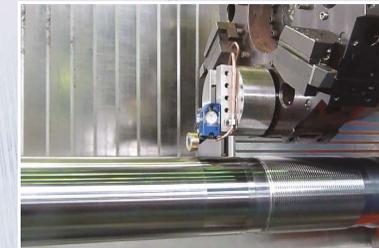
Combined tool setting system: non-contact measurement of rotating tools with laser ant touch probe for static tools



Manual tool measuring arm



Boring bar holder mounted on the B-axis milling head. Parking position on the tailstock facilitates quick assembly.



Burnishing with tool turret



Touch probe for workpiece measuring



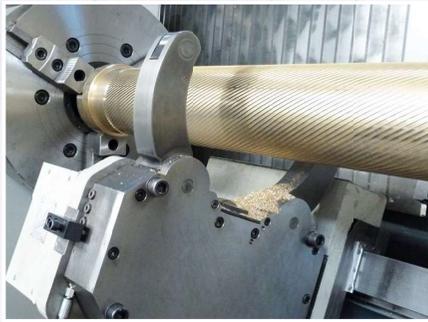
Special boring bar attachment. The unit is designed for boring bar 120 mm (4.7") in diameter. The boring bar is mounted on swivel holder that lets the bar be put on parking position without disassembling.



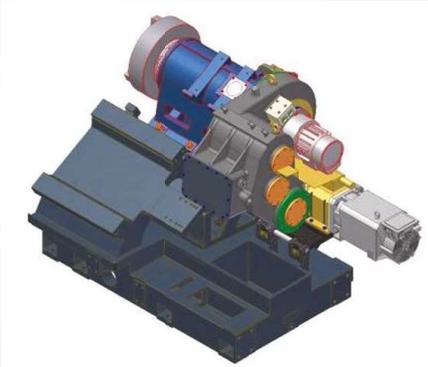
Hydraulic self-centering steady rest. Can be equipped with separate NC-drive.



Sub-spindle



Chuck and hydraulic steady rest



Additional heavy-duty gearbox for increasing torque of spindle



Turning-milling head with B axis

TECHNICAL PARAMETERS: FCTS 900		
		FCTS 900
<b>CAPACITY</b>		
Distance between centers Watch shorter travel of column in Z-axis	mm	1.900 – 2.900 – 3.900- 4.900 – 5.900 – 6.900 – 7.900
Swing over bed	mm	900
Swing over saddle	mm	900
Max. weight between chuck and tailstock (without steadies)	kg	4.500
Max. Weight in chuck only	kg	1.000
<b>HEADSTOCK</b>		
Number of spindle ranges		2
Main drive motor power (100%)	kW	41
Spindle bore	mm	140
Spindle speed	rpm	2.500
Max. turning torque with 2-range gearbox	Nm	3.500
Spindle nose (DIN 55026 / ISO702/1)	DIN 55026	A2-15
Spindle bore	mm	220
Spindle speed	rpm	2.000
Max. turning torque with 2-range gearbox	Nm	3.500
Spindle nose (DIN 55026 / ISO702/1)	DIN 55026	A2-15
<b>COLUMN</b>		
Cross slide travel X-axis	mm	650 / (990)
Z-axis travel	mm	1.350 / 2.350 / 3.350 ... / 7.350
Y-axis long travel	mm	210 (±105)
Increased Y-axis travel	mm	450 (+245/-205)
Rapid travel Z-axis	m/min	24
Rapid travel X-axis	m/min	15
Rapid travel Y-axis	m/min	15
Feed force transverse	kN	30
Feed force transverse in version FCTS YH	kN	40
Feed force longitudinal	kN	30
Feed force longitudinal in version FCTS YH	kN	35
Ball screw Z-axis	mm	63
Ball screw X-axis	mm	50
Ball screw Y-axis	mm	50
Width of slide ways	mm	X=600, Y=600, Z=645
<b>TOOLTURRET</b>		
12-position tool turret for static tooling	DIN69880	VDI 50
<b>TAILSTOCK</b>		
Quill diameter	mm	160
Quill taper	MT	MT 6
Quill stroke	mm	150
<b>SUBSPINDLE (option)</b>		
Spindle bore	mm	105
Top spindle speed	rpm	1800
Spindle nose (DIN 55026 / ISO702/1)	DIN 55026	A2-8
Max. turning torque	Nm	950
<b>Weight of machine (approx.)</b>		
FCTS 900 x 1.100	kg	22.000
FCTS 900 x 2.100	kg	24.000
FCTS 900 x 3.100	kg	26.000
FCTS 900 x 4.100	kg	28.000
FCTS 900 x 5.100	kg	30.000
FCTS 900 x 6.100	kg	32.000
FCTS 900 x 7.100	kg	34.000

\* The data in the table refer to the basic version of the lathe. They may differ depending on the version of the machine and equipment additional. In particular, the tool system, special covers and doors, type of tailstock, handle, steady rests and other options.