

TUR SMN 800/930/1100

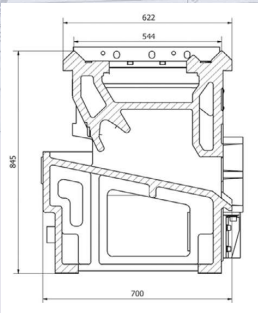
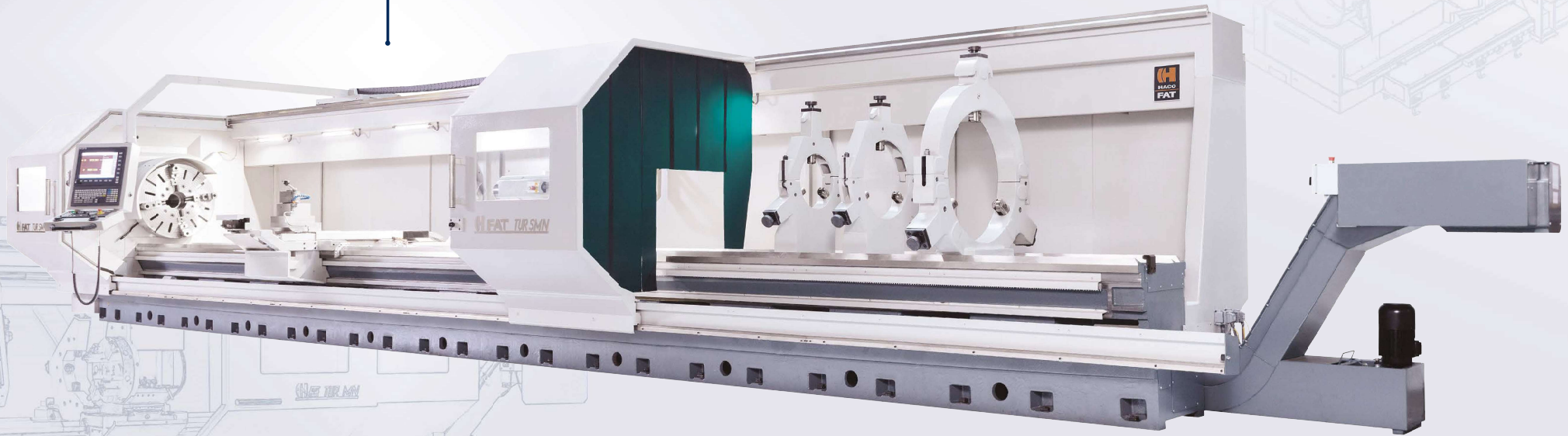
TUR SMN 800/930/1100 is designed for heavy machining of up to 1,100 mm in diameter and offering manufacturers exceptional stability and high precision with a monolithic bed. FAT have many years of experience in the production of machine tools and innovative design. Every stage of the production process is carefully taken to guarantee reliability in the products available.



Easy access to the working area.
Surprisingly small distance to spindle axis.

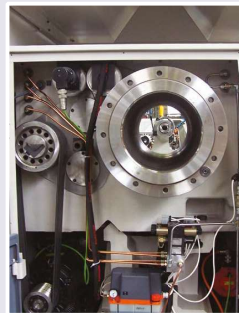


The standard tailstock has 125 mm (4.9") quill diameter. For heavy duty machining the diameter can be increased up to 140 mm (5.5") or 160 mm (6.3"). The quill is located in a specially extended body. Optionally the tailstock can be equipped with hydraulic quill, bearing system for the dead center, independent NC drive and hydraulic clamping system to the bed.



Special, mono-block type bed made of cast iron is a rigid structure which perfectly absorbs vibrations. Extra wide, deeply hardened and ground guide ways 3-V ensure precise machining and excellent surface quality. All of the above guarantee long-life accurate operation of the lathe.

The headstock is made of one mono-block casting. Hand scraped contact surfaces ensure the best fit and durable alignment. High precision spindle bearings guarantee excellent stability and accuracy of machining.



OPTIONAL EQUIPMENT:



◀ Machining of rotor shaft



▲ Additional chip conveyor at the front of the machine

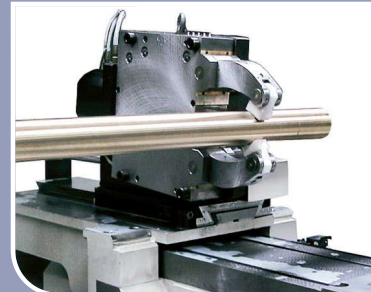
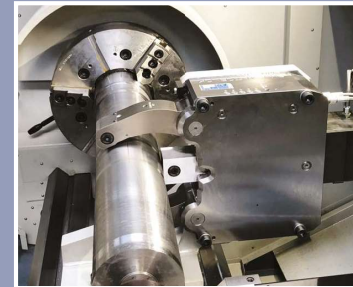
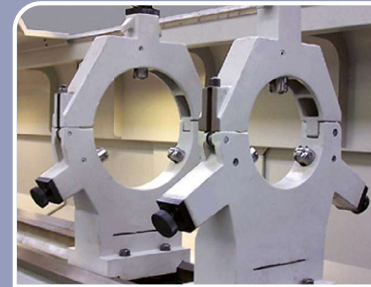


◀ CNC machine with steady rests system for long shafts and pipes

▼ Full enclosure



A wide range of rests is available to suit different machining applications: manual, hydraulic self-centring, steady or follow rests, C-form, ring rests and other.



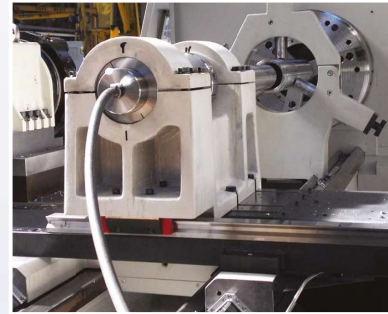
OPTIONAL EQUIPMENT:



LED light front



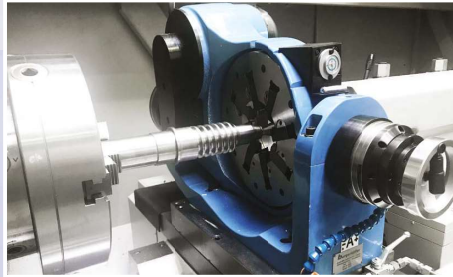
Mist collector



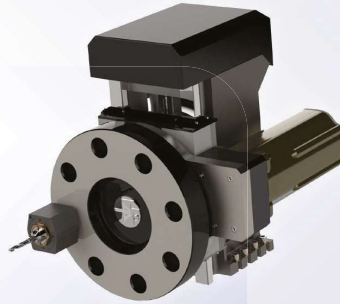
Heavy-duty boring bar attachment mounted on rear T-slots



A wide range of manual, hydraulic and pneumatic chucks



Whirling head



YAX-C-DEFINITIVA, Barruffaldi turret with Y axis



BMT driven tool head with integrated Y axis.



Additional coolant tank with filtration and high pressure pump

Tooling system:



Parat toolpost with optional Capto seat



Disc turret for static tools



Combination of two 4-positions head-type turrets



Head-turret with milling unit on the rear T-slots



Turret for driven tools with C axis



Standard Multifix D1 toolpost

Spindle equipment:



Available spindle bores:
 ø140mm (standard),
 ø220mm, ø320mm,
 ø360mm, ø450mm



Second spindle nose



Full contouring C axis with independent, direct drive on the spindle enables precise milling operations with interpolating workpiece

O5 C:

Milling-drilling units:



Tooling system mounted on cross-slide T slots



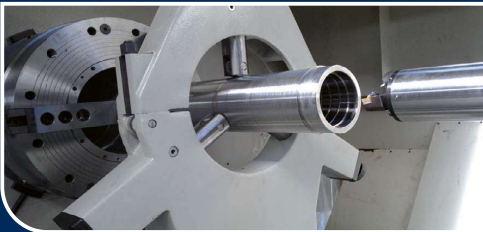
Unit mounted on tool turret



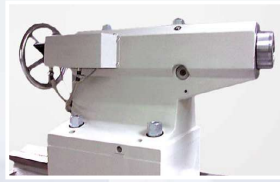
WTO system (VDI50) enables drilling and milling operations with a high torque. Normal turning is still possible. Available version with Y-axis.

STANDARD EQUIPMENT:

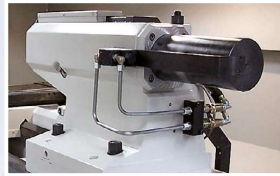
- Siemens Sinumerik One
- Tool post MULTIFIX D1 (without tool holders)
- Coolant system
- Hydraulic aggregate
- Rotary operator panel on a sliding arm
- Easy connection of the tailstock and support thanks to the „come-along” system
- Absolute encoders of X and Z axis motors
- Sliding rear covers
- Front doors with interlock
- Handwheels with „click” positions
- Automatic programmable gearbox
- USB port
- One-year Siemens service contract
- Central lubrication system



Tailstock executions:



Quill operated both manually and hydraulically



Hydraulic tailstock quill



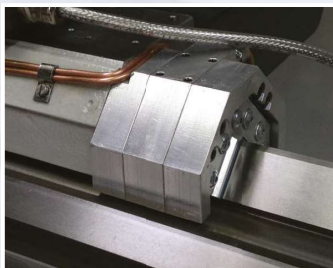
Heavy-duty tailstock with 160 mm (6.3”) quill diameter for increased rigidity and load capacity



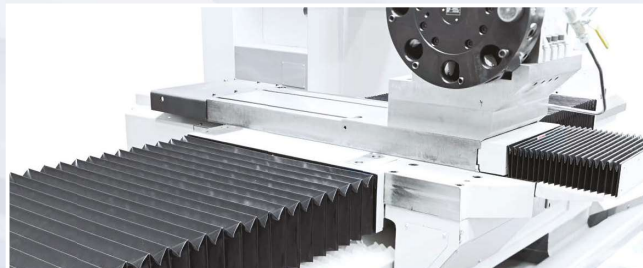
Tailstock with independent drive by push button



Tailstock on additional X-axis



Scrapers with compressed air for guideways



Bellows covers

TECHNICAL PARAMETERS: TUR SMN 800/930/1100				
		TUR 800 SMN	TUR 930 SMN	TUR 1100 SMN
CAPACITY				
Distance between centres	mm	2.000 – 3.000 – 4.000 – 5.000 – 6.000 – 8.000 ... – 16.000		
Swing over bed	mm	800	950	1.100 (OPTIONAL 1.200)
Swing over saddle	mm	500	630	790 (OPTIONAL 830)
Max. weight between chuck and tailstock (without steadies)	kg	4.000 (opcjonalnie 7.000)		
Max. weight in chuck only	kg	1.000		
HEADSTOCK				
Number of spindle ranges		2		
Top spindle speed ranges (standard machine with 140 mm spindle bore)	rpm	I: 4-360, II: 200-1800	I: 4-300, II: 160-1200	
Main drive motor power 100%	kW	25		
Max. Turning torque	Nm	4.100	4.900	
Spindle nose Camlock	DIN55029	D1-11		
Spindle inner taper	mm	150		
Spindle bore	mm	140		
Spindle nose	DIN55026	A2-15		
Max speed	rpm	1.000		
Spindle bore	mm	220		
Max. Turning torque	Nm	6.100		
Spindle nose	DIN55026	A2-20		
Max speed	rpm	500/700		
Spindle bore	mm	320		
Max. Turning torque	Nm	6.100		
Spindle nose	DIN55026	A2-20		
Max speed	rpm	-	500	
Spindle bore	mm	-	360	
Max. Turning torque	Nm	-	6.100	
Spindle nose	DIN55026	A2-28		
Max speed	rpm	-	350	
Spindle bore	mm	-	450	
Max. Turning torque	Nm	-	6.100	
SUPPORT				
Cross slide travel X-axis	mm	505	570	610
Rapid travel Z-axis	m/min	6		
Rapid travel X-axis	m/min	6		
Feed force longitudinal	kN	27/31		
Feed force transverse	kN	20		
Ball screw Z-axis	mm	63		
Ball screw X-axis	mm	40		
Manual Tool post Type Multifix	Size	D1		
TAILSTOCK				
Quill diameter	mm	125 (140/160 option)		
Quill taper	MT	6 (MT5 for option with bearing system)		
Quill stroke	mm	300		
GENERAL				
Width of bed	mm	700		
Weight of machine				
2.000 mm	kg	10.100	10.500	10.900
3.000 mm	kg	11.000	11.400	11.800
4.000 mm	kg	11.900	12.300	12.500
5.000 mm	kg	12.800	13.200	13.600
6.000 mm	kg	13.700	14.100	15.200
16.000 mm	kg	22.700	23.100	23.500

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