



GENERAL CATALOGUE

POWER...PRECISION...PERFORMANCE!



for impressive performances

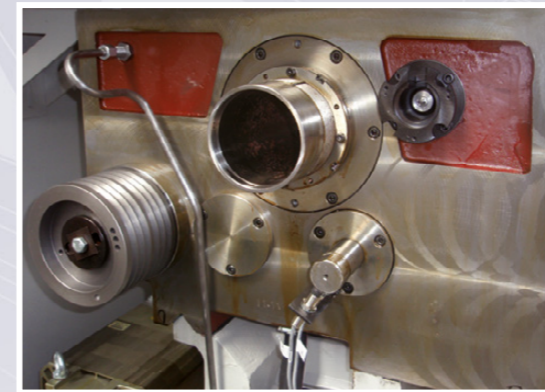


TUR 560/630/710 MN SERIES LATHES

Exceptional stability with high precision and unrivalled quality, FAT lathes will provide many years of reliable service for your business. The best combination of price and high efficiency – your most cost effective solution. We are confident there is no better choice for your work shop on the market today!

Lathe:
TUR 560/630/710MN is a high precision, high quality European product manufactured 100% in Poland. The purchased parts used in all our products only come from the world leaders in machine tools parts manufacture and supply.

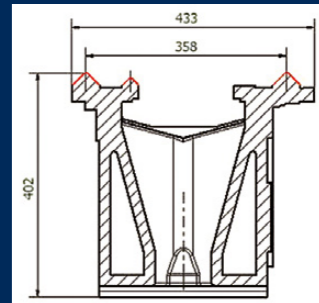
The high level of standard equipment makes the TUR MN lathe a powerful tool which will increase capacity of your work shop from the first day of operation! A large range of easy to install options will fulfil any special requirements.



The heavy duty headstock is actually located on the two V's of the induction hardened and ground bed surface, hand scraped to ensure correct alignment and the best possible fit.



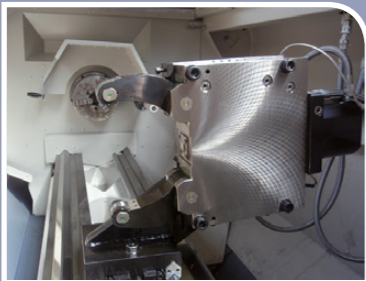
Special 3-V design of machine bed with its deep induction hardened and ground guide ways provides exceptional rigidity and stability on all lathes. All bed lengths are made as one mono-block casting.



Surprisingly easy programming! TUR MN with Siemens 840D SL allows you to work manually, semi-automatic or full CNC. The user friendly Siemens Shop Turn Conversational Programming System will make your work efficient and enjoyable.

Siemens features:

- easy programming using graphics and without need for knowledge of DIN/ISO
- extremely short programming time
- clear display of all technical in machining sequence
- no programming mistakes thanks to dynamic online graphics
- simply management of tools
- wide range of standard machining and measuring cycles



Wide range of self centering hydraulic steady rests



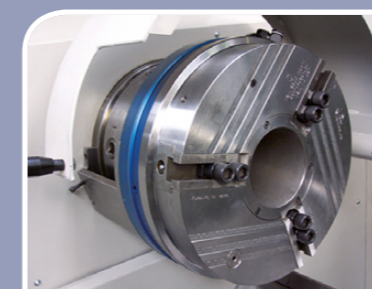
Follow rest



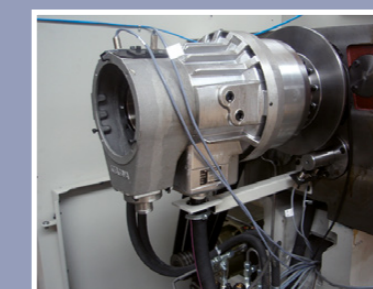
Hydraulic tailstock as an option. Quill diameter 100mm and specially extended neck. Thanks to this solution there is easy access for machining close to the tailstock's centre and high rigidity of total construction.



Fanuc or Fagor controller as an option



Pneumatic chuck



Actuating cylinder for hydraulic chuck



Hydraulic chuck

TUR MNP 630 / 710

The special version of TUR MN 560/630/710 machine designed for pipe machining.
Large spindle bore (standard $\varnothing 165$ mm and $\varnothing 190$ as an option) makes pipe machining surprisingly easy!



Direct spindle drive with automatic, programmable planetary gearbox.



Second spindle nose with complete interlocked covers.



TUR PMN 630 equipped with bar feeder



special feeder for rotating bar

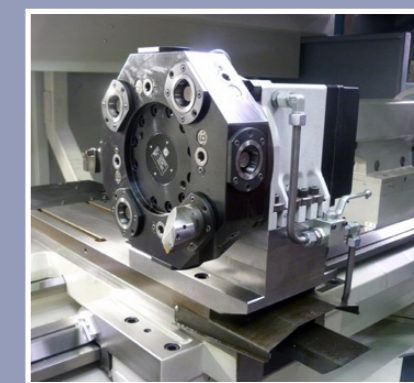
MANY DIFFERENT TOOLING SYSTEMS:



Combination of 2 horizontal head turrets



Disc turret for static tools



Tool turret with Capto seats



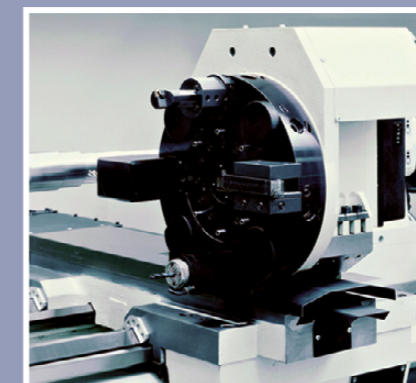
Manual upper cross-slide



Installation of whirling unit



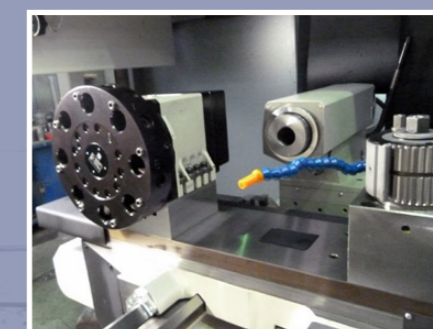
Boring bar attachment mounted on cross-slide T slots



Turret for driven tools with options for C-axis spindle positioning:
- indexing 2,5 degrees
- driven by main motor in combination with hydraulic brake and spindle encoder
- full contouring C-axis driven directly by separate servo motor



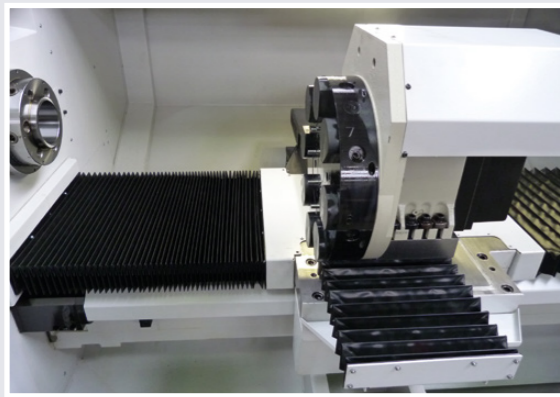
WTO tooling system for turning, drilling and milling operation



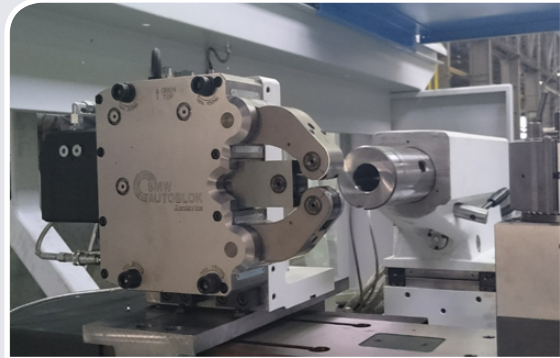
Multifix- turret combination



Parat turret optionally with Capto seats



Z and X guideways covers



Autoblock Hydraulic Self-Centering Steady Rest



Additional cover of tailstock area

Special machine with tool turret, milling unit and automatic workpiece positioning and clamping system.

STANDARD EQUIPMENT:

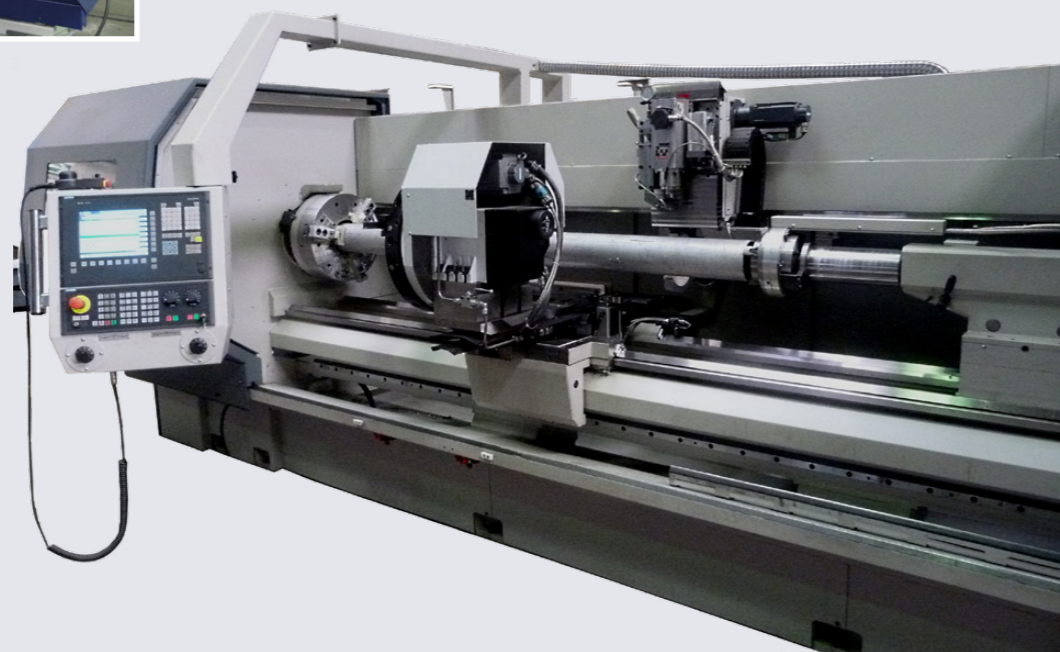
- Siemens CNC System: Sinumerik 840D SL
- Quick change toolpost type Multifix Size C (without tool holders and sleeves)
- Complete coolant system
- Hydraulic aggregate (option for P machine)
- Rotating operator panel
- Come-along tailstock system – quick coupling between tailstock and cross slide
- Electrical emergency contact between tailstock and cross slide
- Double t-slot on the rear of the cross slide
- Automatic lubrication system for headstock, carriage and cross slide
- Guards
- Automatic, programmable gearbox
- USB Port
- Siemens RSV service contract 1 year
- Absolute Encoders



Additional control panel with hand-wheels installed on support



Third Hand wheel (MPG mini handheld unit) Siemens



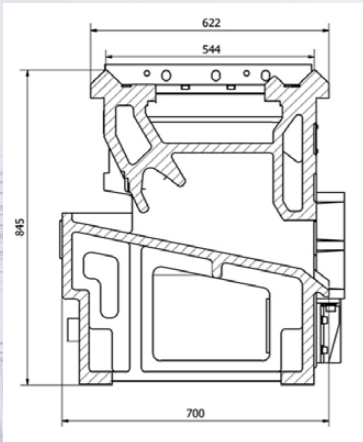
TECHNICAL PARAMETERS: TUR MN 560/630/630A/630P/710/710A/710P

TUR MN		MN 560	MN 630	MN 630 A	MN 710	MN 710 A
				MN 630 P		MN 710 P
CAPACITY						
Distance between centers	mm	1.000 - 2.000 – 3.000 – 4.000 – 5.000 – 6.000				
Swing over bed	mm	560	630	630	710	710
Swing over saddle	mm	300	370	370	450	450
Max. weight between centers (without steadies)	kg	2.000	2.000	2.000	2.000	2.000
Max. Weight in chuck only	kg	600	600	600	600	600
HEADSTOCK						
Number of spindle ranges		2	2	2	2	2
Top spindle speed ranges	rpm	I: 2 - 430, II: 200 - 2.500		I: 2 - 430, II: 200 - 1.850	I: 2 - 430, II: 200 - 2.500	I: 2 - 430, II: 200 - 1.850
Spindle nose DIN 55029 (standard and A) DIN 55026 (P version)		D-18	D-18	2 x D 1-11	D-18	2 x D 1-11
				2 x A2 - 11/15		2 x A2 - 11/15
Spindle inner taper	mm	115	115	150	115	150
				1:20		1:20
Spindle bore	mm	105	105	140	105	140
				165 / 190		165 / 190
Main drive motor power	kW (S6)	18,5	18,5	18,5	18,5	18,5
Max. Turning torque	Nm	1800	1800	2140	1800	2140
				2050		2050
SADDLE						
Cross slide travel X-axis	mm	365	390	390	410	410
Rapid travel Z-axis	m/min	8				
Rapid travel X-axis	m/min	8				
Feed force transverse	kN	10				
Feed force longitudinal	kN	15				
Ball screw Z-axis (1-3m b.c.)	mm	40				
Ball screw Z-axis (4m b.c.)	mm	63				
Ball screw X-axis	mm	32				
Carriage length on bedways	mm	610				
Width of cross slideways	mm	230				
QC Toolpost Type Multifix	Size	C				
TAILSTOCK						
Quill diameter	mm	100				
Quill taper	MT	5				
Quill stroke	mm	200				
GENERAL						
Width of bed	mm	433				
Total length of machine						
1.000 mm b.c.	mm	3 200				
2.000 mm b.c.	mm	4 200				
3.000 mm b.c.	mm	5 200				
4.000 mm b.c.	mm	6 200				
5.000 mm b.c.	mm	7 200				
6.000 mm b.c.	mm	8 200				
Width of machine	mm	2 500				
Height of machine	mm	2 100				
Weight of machine						
1.000 mm b.c.	kg	4 900	5 100	5 100	5 300	5 300
2.000 mm b.c.	kg	5 700	5 900	5 900	6 100	6 100
3.000 mm b.c.	kg	6 500	6 700	6 700	6 900	6 900
4.000 mm b.c.	kg	7 300	7 500	7 500	7 700	7 700
5.000 mm b.c.	kg	8 100	8 300	8 300	8 500	8 500
6.000 mm b.c.	kg	8 900	9 100	9 100	9 300	9 300

TUR SMN 800/930/1100

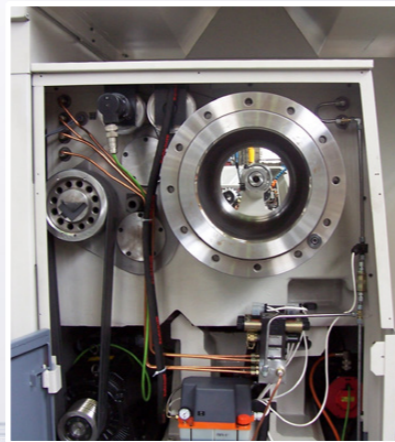
Exceptional stability with high precision and unrivalled quality, FAT lathes will provide many years of reliable service for your business. The best combination of price and high efficiency – your most cost effective solution. We are confident there is no better choice for your work shop on the market today!

TUR SMN 800/930/1100 is a high precision, high quality European product 100% manufactured in Poland. The purchased parts used in all our products only come from world leaders in machine tools parts manufacture and supply.



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.

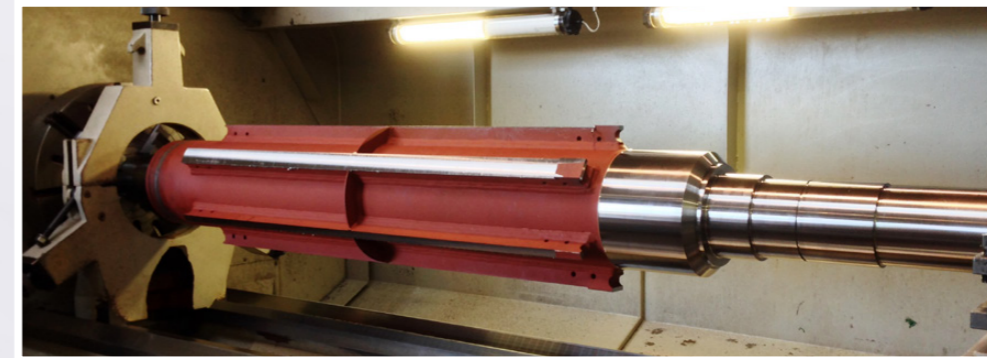
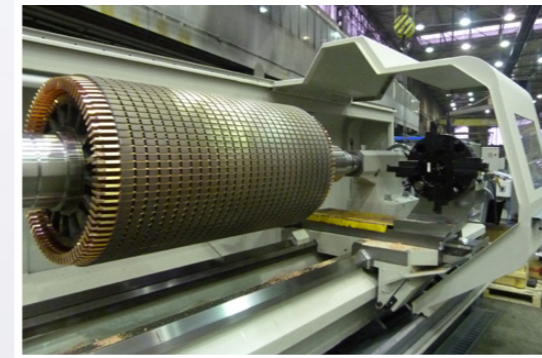
The headstock is made of one mono-block casting. Hand scraped contact surfaces ensure the best fit and durable alignment. High precision spindle bearings guarantee excellent stability and accuracy of machining.



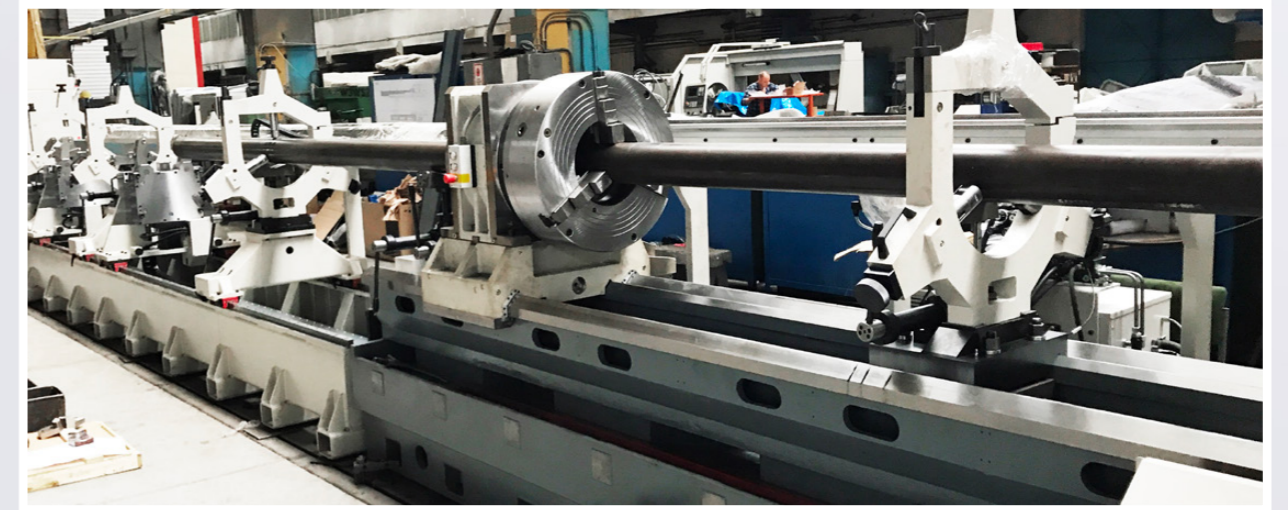
Easy access to the working area. Surprisingly small distance to spindle axis



The standard tailstock has 125mm quill diameter. For heavy duty machining the diameter can be increased up to 140mm or 160mm. 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.



Rotor shaft

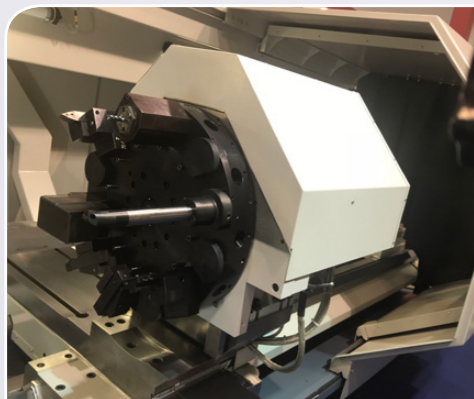


CNC machine with steady rests system for long shafts and pipes

Full enclosure



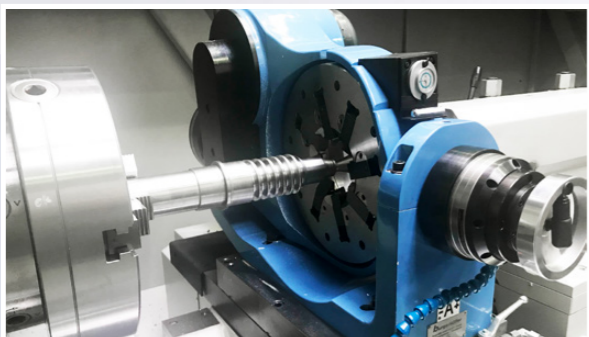
OPTIONAL EQUIPMENT:



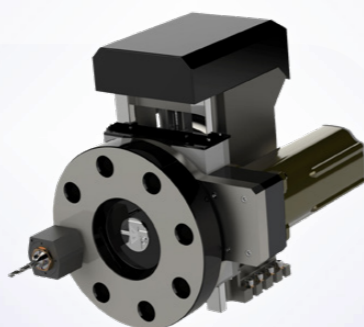
▲ Sauter Y axis; nazwa Turret with Y axis



▲ LED light front



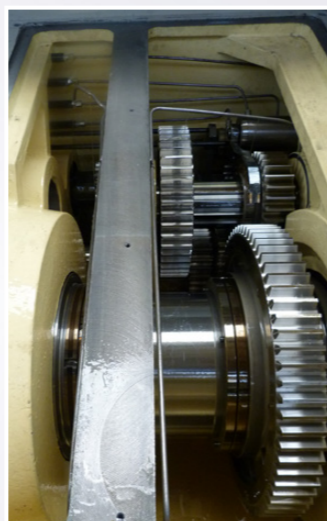
▲ Burgsmüller whirling head



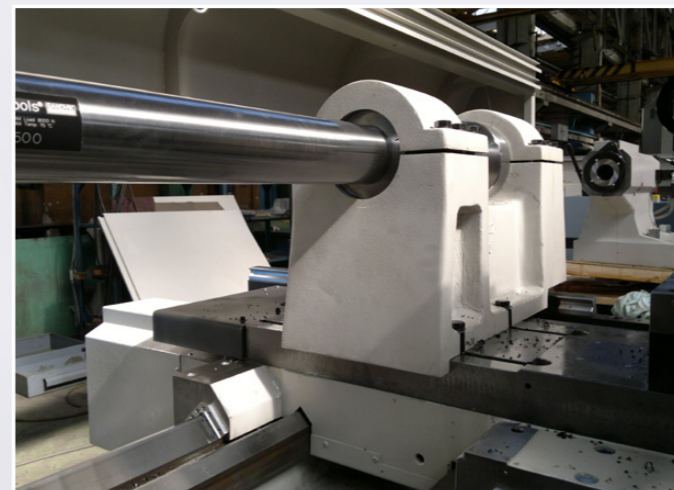
▲ YAX-C-DEFINITIVA, Barruffaldi with Y axis



▲ Oil and coolant mist vacuum filtration LTA



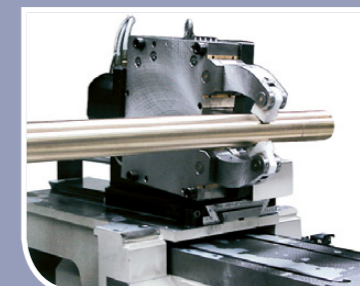
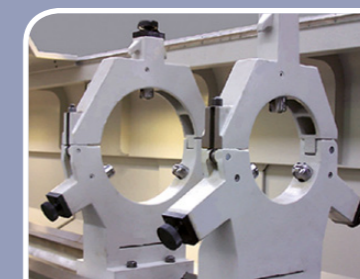
▲ inside the Headstock



▲ Robust attachment for heavy boring operations

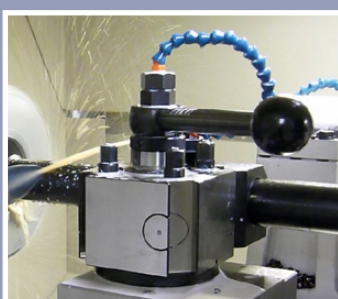


Wide variety of manual, hydraulic and pneumatic chucks

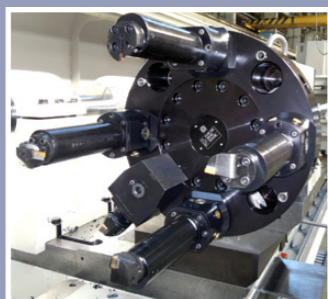


A wide range of rests is available to suit different machining applications: manual, hydraulic self-centring, steady or follow rests, C-form, ring rests and other.

Tooling system:



Parat toolpost with optional Capto seat



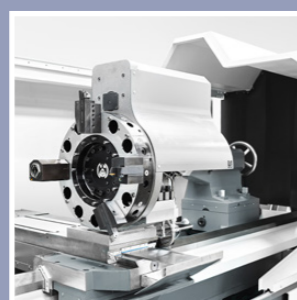
Disc turret for static tools



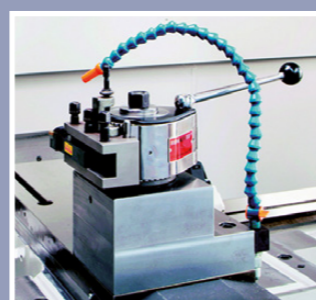
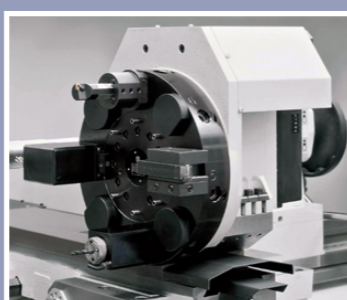
Combination of two 4-positions Sauter head-type turrets



Sauter head-turret with milling unit on the rear T-slots

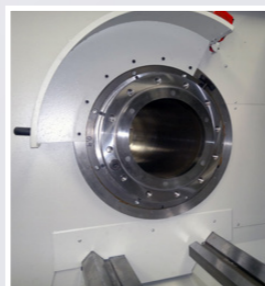


Sauter or Baruffaldi turret for driven tools with C axis



Standard Multifix D1 toolpost

Spindle equipment:

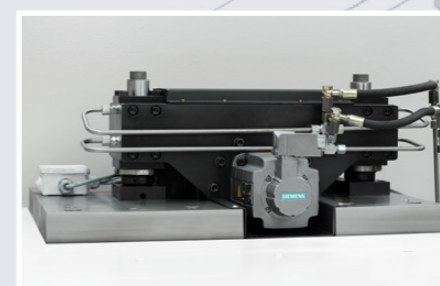


Available spindle $\phi 140\text{mm}$ (standard), 220mm , $\phi 320\text{mm}$, $\phi 360\text{mm}$, 450mm



Second spindle nose

C axis:



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

Milling-drilling units:



Tooling system mounted on cross-slide T slots



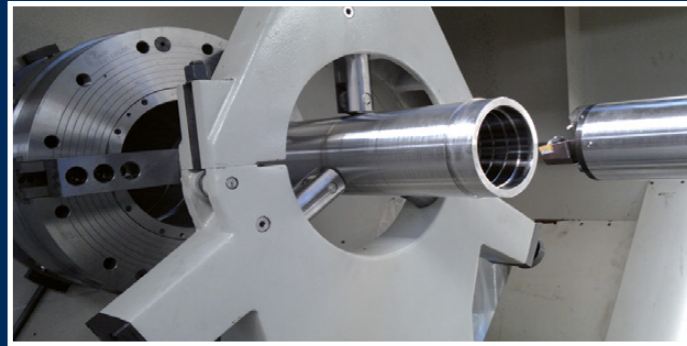
Unit mounted on tool turret



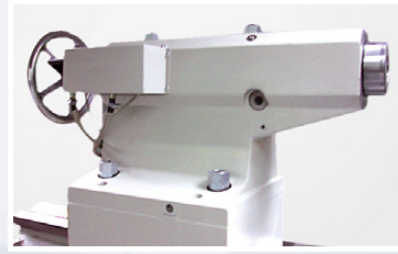
WTO system (VDI50) enables drilling and milling operations with a high torque. Normal turning is still possible. Available version with Y-axis and Capto seat.

MACHINE STANDARD EQUIPMENT

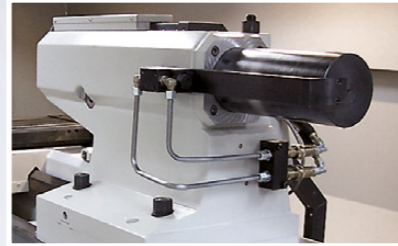
- CNC Siemens 840D SL
- Toolpost type Multifix Size D1
- Tube lights (24V) in working area
- Complete coolant system
- Hydraulic aggregate
- Independent Z position operator panel
- Come-along system – quick coupling between tailstock and carriage
- Emergency switch between tailstock and carriage
- Full rear guarding with sliding access doors
- Hand wheels for manual operation
- Automatic lubrication system
- Automatic gear change
- USB Port
- Absolute encoders



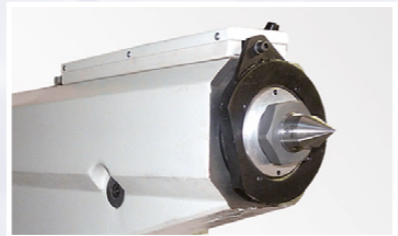
Tailstock executions:



Quill operated both manually and hydraulically



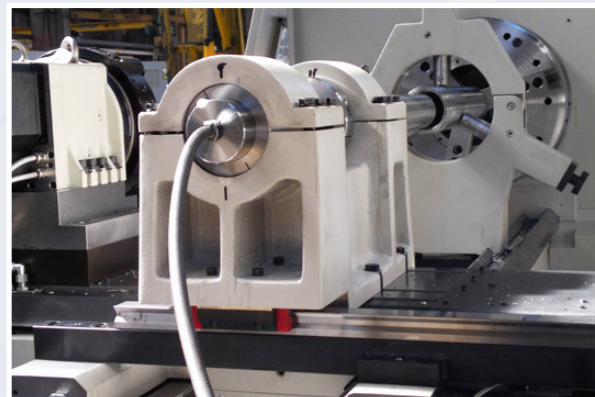
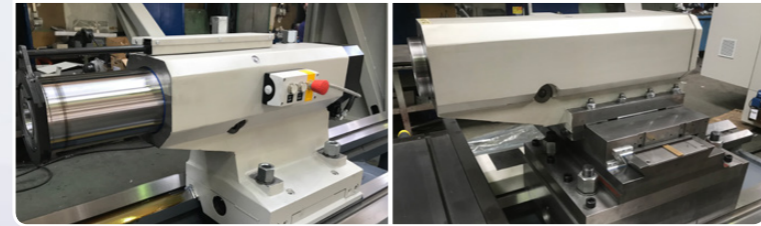
Hydraulic tailstock quill



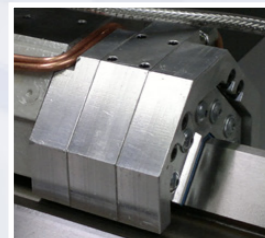
Heavy-duty tailstock with 160 mm quill diameter for increased rigidity and load capacity

Tailstock on additional X-axis

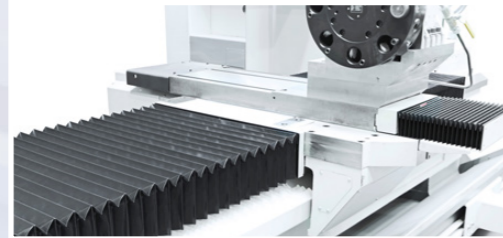
Tailstock with independent drive by push button



Heavy-duty boring bar attachment mounted on rear T-slots. Large 15" touchscreen



Scrapers with compressed air for guideways



Bellows cover



Additional coolant tank with filtration and high pressure pump

TECHNICAL PARAMETERS: TUR SMN 800/930/1100

		TUR 800 SMN	TUR 930 SMN	TUR 1100 SMN
CAPACITY				
Distance between centres (other lengths on request)	mm	2.000 – 3.000 – 4.000 – 5.000 – 6.000 – 8.000 ... – 16.000		
	in	79 – 118 – 157 – 197 – 236 – 315 ... 630		
Swing over bed	mm / in	800 / 31,5	950 / 37,4	1.100 / 43,3
Swing over saddle	mm / in	500 / 19,7	630 / 24,8	790/830 / 31,1
Max. weight between centres*	kg / lbs	7.000 / 15.500	7.000 / 15.500	7.000 / 15.500
Max. weight between centres with standard spindle box	kg / lbs	4.000 / 8.800	4.000 / 8.800	4.000 / 8.800
Max. weight between centres (with one steady)	kg / lbs	4.500 / 9.900	4.500 / 9.900	4.500 / 9.900
Max. weight between centres (with two steadies)	kg / lbs	5.000 / 11.000	5.000 / 11.000	5.000 / 11.000
Max. weight in chuck only	kg / lbs	1.000 / 2.200	1.000 / 2.200	1.000 / 2.200
HEADSTOCK				
Number of spindle ranges		2	2	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 (S6)	kW / hp	33 / 46		
Max. Turning torque	Nm / ft-lb	4100 / 3020	4900 / 3600	4900 / 3600
Standard execution				
Spindle nose Camlock **	DIN55029	D1-11		
Spindle inner taper	mm / in	150 / 5,9	150 / 5,9	150 / 5,9
Spindle bore	mm / in	140 / 5,5	140 / 5,5	140 / 5,5
Optional execution				
Spindle nose	DIN55026	A2-15		
Max speed	rpm	1200	1200	1200
Spindle bore	mm / in	165 / 6,5	165 / 6,5	165 / 6,5
Special execution 220				
Spindle nose	DIN55026	A2-15		
Max speed	rpm	700	700	700
Spindle bore	mm / in	220 / 8,6	220 / 8,6	220 / 8,6
Max. Turning torque	Nm / ft-lb	4900 / 3600	4900 / 3600	4900 / 3600
Special execution 320				
Spindle nose	DIN55026	A2-20		
Max speed	rpm	700	700	700
Spindle bore	mm / in	320 / 12,5	320 / 12,5	320 / 12,5
Max. Turning torque	Nm / ft-lb	4900 / 3600	4900 / 3600	4900 / 3600
Special execution 360				
Spindle nose	DIN55026	A2-20		
Max speed	rpm	-	500	400
Spindle bore	mm / in	-	360 / 14,2	360 / 14,2
Max. Turning torque	Nm / ft-lb	-	6100 / 4501	6100 / 4501
Special execution 450				
Spindle nose	DIN55026	A2-28		
Max speed	rpm	-	350	350
Main drive motor power	kW	-	22	22
Spindle bore	mm / in	-	450 / 17,7	450 / 17,7
Max. Turning torque	Nm / ft-lb	-	6100 / 4501	6100 / 4501
SADDLE				
Cross slide travel X-axis	mm / in	505	570	610
Rapid travel Z-axis	m/min / ipm	6 / 235	6 / 235	6 / 235
Rapid travel X-axis	m/min / ipm	6 / 235	6 / 235	6 / 235
Feed force transverse	kN / lbf	15 / 3300	15 / 3300	15 / 3300
Feed force longitudinal	kN / lbf	20 / 4400	20 / 4400	20 / 4400
Ball screw Z-axis	mm / in	63 / 2,5	63 / 2,5	63 / 2,5
Ball screw X-axis	mm / in	40 / 1,6	40 / 1,6	40 / 1,6
Carriage length bearing on bed ways	mm / in	810 / 31,9	810 / 31,9	810 / 31,9
Width of cross slide ways	mm / in	360 / 14	360 / 14	360 / 14
Manual Tool post Type Multifix	size	D1		
Automatic tool turret 8-pos.	DIN69880	VDI 50		
TAILSTOCK				
Quill diameter	mm	125 (140/160 option)	125 (140/160 option)	125 (140/160 option)
	in	4,9 (5,5 option)	4,9 (5,5 option)	4,9 (5,5 option)
Quill taper	size	810 / 31,9	810 / 31,9	810 / 31,9
Quill stroke	mm	300	300	300
	in	11,8	11,8	11,8
GENERAL				
Width of bed	mm / in	622 / 24,4	622 / 24,4	622 / 24,4
Weight of machine (approx.) ****				
2.000 mm b.c.	kg / lbs	10.100 / 22.266	10.500 / 23.149	10.900 / 24.030
3.000 mm b.c.	kg / lbs	11.000 / 24.250	11.400 / 25.132	11.800 / 26.140
4.000 mm b.c.	kg / lbs	11.900 / 26.235	12.300 / 27.113	12.500 / 27.557
5.000 mm b.c.	kg / lbs	12.800 / 28.100	13.200 / 29.200	13.600 / 30.300
6.000 mm b.c.	kg / lbs	13.700 / 30.203	14.100 / 31.085	15.200 / 33.510
6.000 mm b.c.	kg / lbs	22.700 / 50.044	23.100 / 50.926	23.500 / 51.808

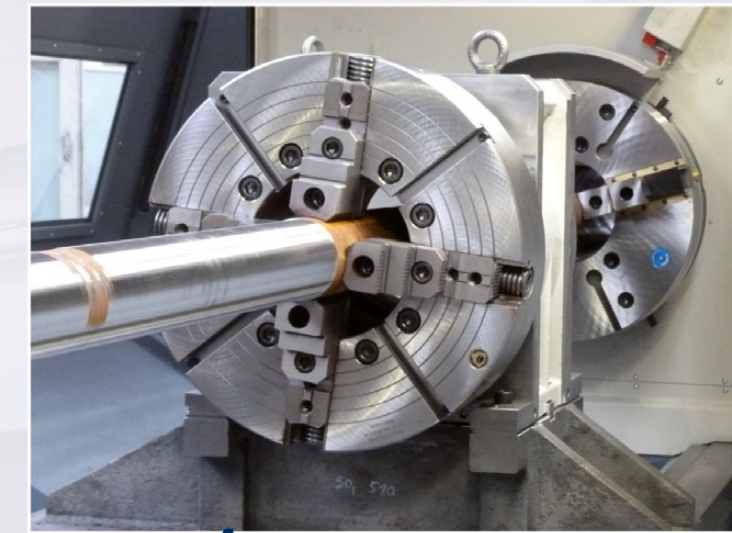
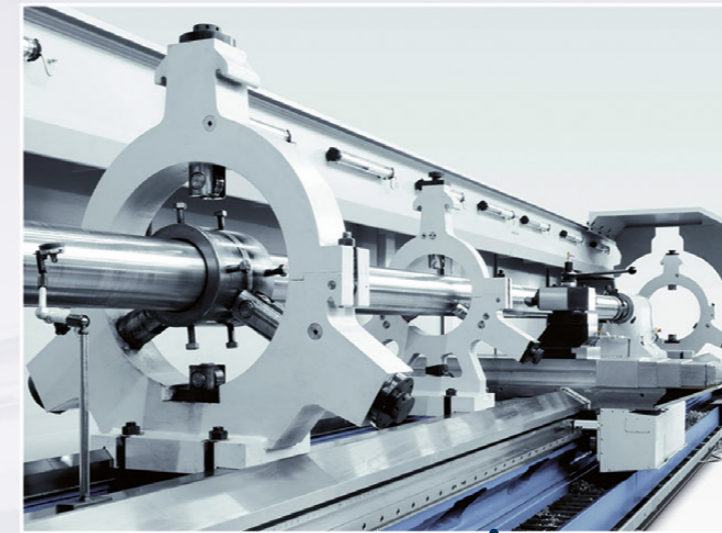
TUR 1150/1350/1550 MN SERIES

The TUR 1150/1350/1550 MN is been designed for machining of heavy work pieces with diameter up to 1550 mm. These heavy duty lathes have exceptional stability and high precision. The TUR MN is a durable, tested and proven group of models, based on years of experience in producing lathes using innovative structure and design. The special care taken in every single detail of the manufacturing process guarantees failure-free operation when using our machines.

The best combination of price and high efficiency is **your cost most effective solution**. We are confident there is no better choice for your work shop on the market today!

TUR 1150/1350/1550 MN is a high precision, high quality **European product** 100% manufactured in Poland. The outsourced parts used in all our products only come from world leaders in machine tools parts manufacture and supply.

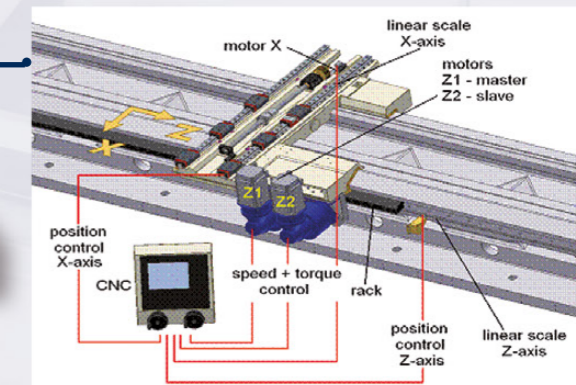
The **high level of standard equipment** makes the TUR MN lathe a powerful tool which will increase the capacity of your work shop from its first day of operation! A large range of easy to install options will fulfil any special requirements.



Manual steady rest. A wide range of steadies and rests is available to suit different machining applications, including: manual, hydraulic self-centering, follow rests, C-form, ring type and other.

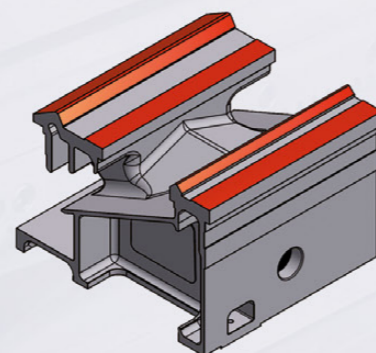
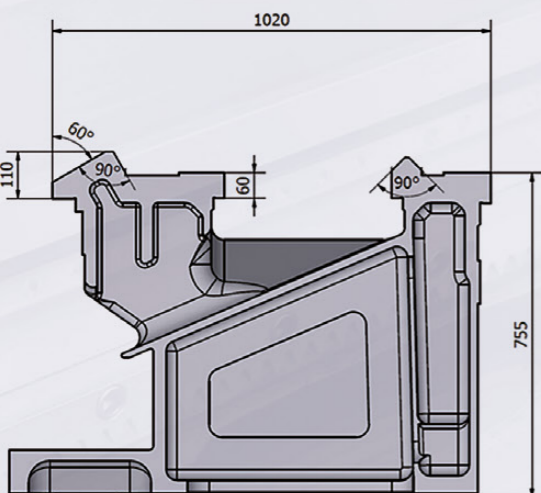
CARRIAGE

A „Master- Slave” drive system is used on lathes with machining lengths longer than 4M, using an automated backlash reduction system and linear scales to achieve very high accuracy. The carriage is driven by two synchronized motors, a gearbox and a rack. Lathes which have shorter machining length are equipped with a precise ball screw.

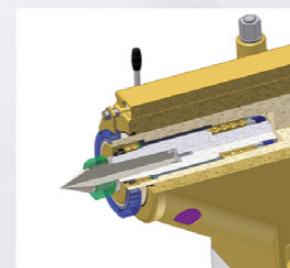


Advantages of “Master – Slave” solution:

- automatic backlash elimination
- high stiffness
- maintenance free and no readjustment needed

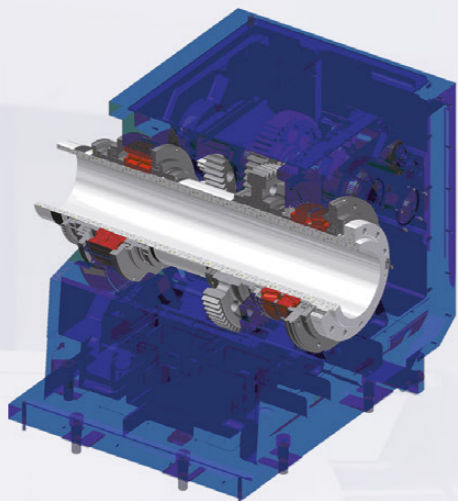


Special, mono-block type bed made of cast iron is a rigid structure which perfectly absorbs vibrations. Extra wide, deeply hardened and ground guide ways ensure precise machining of huge work pieces and excellent surface quality. All of the above guarantee long-life accurate operation of the lathe.

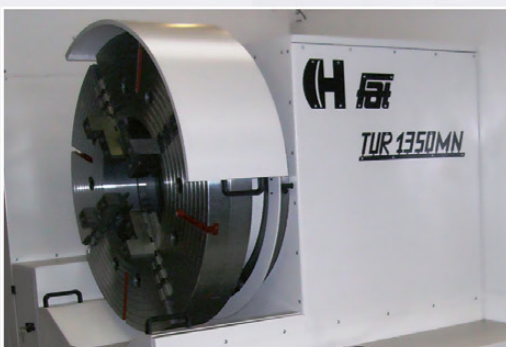


A robust tailstock with an extended stroke allows the full working range (between tailstock housing and carriage) to be used. Due to this solution, heavy duty machining of any work piece held in the tailstock center is possible. The hydraulically operated quill with a diameter is 200 mm is hardened and ground. The Quill has a built-in bearing sleeve with taper socket MT6 for dead center. Quick coupling between the tailstock and cross slide makes positioning time short. Optionally, the tailstock can be equipped with an independent drive.

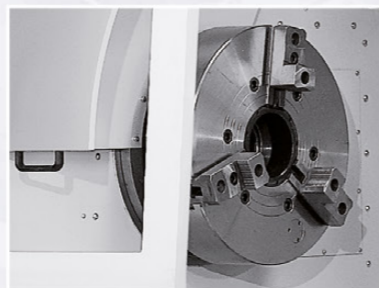
The TUR MN headstock housing is a special, ribbed structure which is tested with FEM analysis to eliminate the weakest points. The integrity of every single headstock is checked before the beginning of the machining process during every stage of assembly.



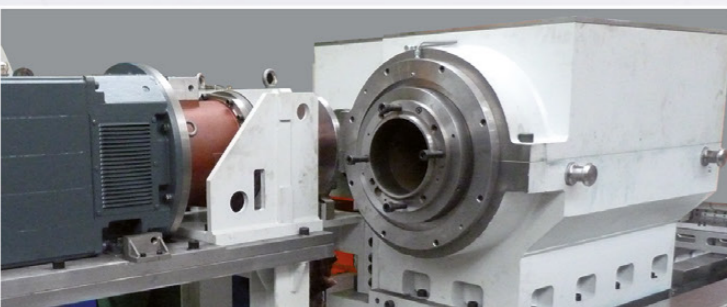
TUR MN 1150/1350/1550 main spindle has new special bearings: in the front two precision axial spherical roller bearings and in the rear one double, cylindrical roller bearing. Due to this arrangement, spindle rigidity and machining accuracy is increased. An automatic maintenance-free bearing lubrication system is used on TUR MN lathes to ensure a continuous, adequate flow for long life and reliability. Different executions are used to provide high heat stability and rigidity during machining of large work pieces and ensure excellent quality of machined surfaces. Diameter spindle bores are available 140, 220, 320, 360, 450 mm.



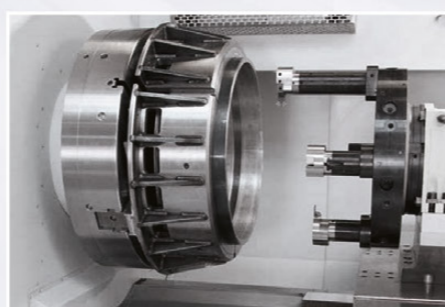
Dual nose spindle with a 450mm diameter bore



Hydraulic chuck



Special headstock with high powerful motor and additional planetary gearbox. With this solution it is possible to obtain a torque of up to 32 000 Nm



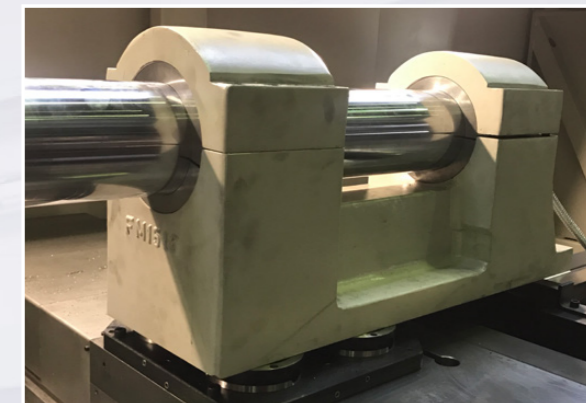
Special jaws



MACHINE STANDARD EQUIPMENT

- Siemens CNC Control System: Sinumerik 840D SL,
- Third movable hand-wheel for easy tool-setting (MPG)
- Automatic programmable change 2-step gearbox
- Tool-post type Multifix Size D2
- 2 tube lights in working area
- Complete coolant system
- One movable front door (connected to cross slide)
- Full back guard
- Hydraulic tailstock quill 200mm diameter with 300 mm stroke
- Electrical emergency contact between tailstock and cross slide
- Hydraulic unit
- Automatic lubrication system
- Front chip conveyor integrated with bed and coolant system
- Rotating operator panel
- Direct measuring system in the X-axis
- Direct measuring system in the Z-axis for lathes longer than 4000mm between centres
- Double T-slot on the rear of the cross slide
- Absolute encoders

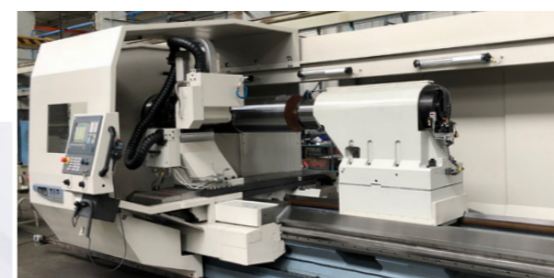
Zero Point Clamping Modules - system for quick change of different tooling solutions "Power grip"



Heavy duty tailstock 280 mm

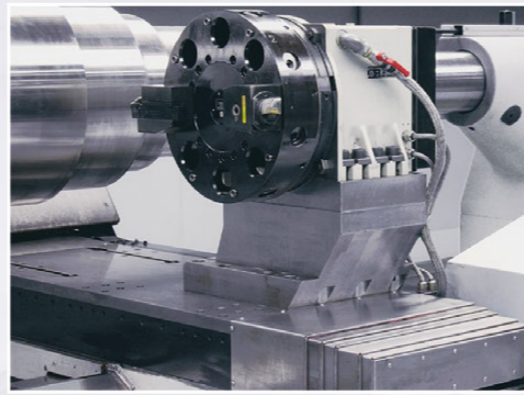
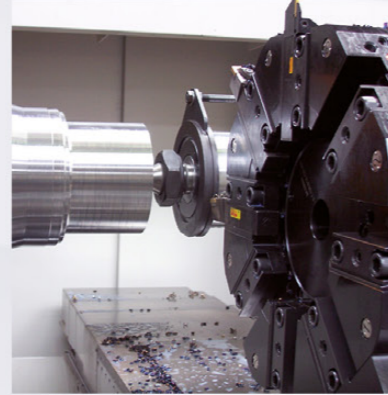


"Power Grip" system with replaceable units for quick change tools system



MN 1550 x 10000 1400 swing over cross slide, heavy duty tailstock for 20 000 kg capacity without steady rest, with two chip conveyors, 4 position turret Baruffaldi TAB 340, Milling unit with automatic Y axis



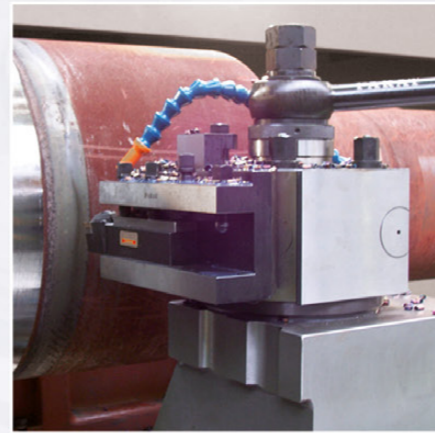


8-position tool turret

Milling units with automatic Y axis and double spindle, mounted on 4-position Sauter toolpost



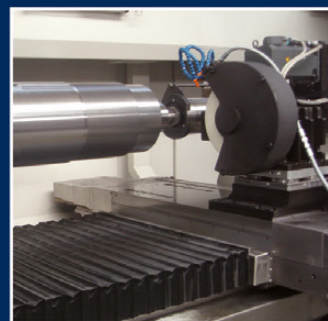
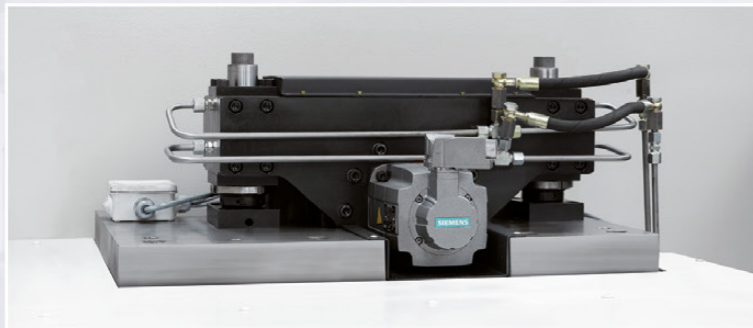
Standard Multifix D toolpost



Parat toolpost with optional Capto seat

C axis with driven tools:

- driven by main motor in combination with hydraulic brake and spindle encoder
- full contouring C-axis driven directly by separate servo motor



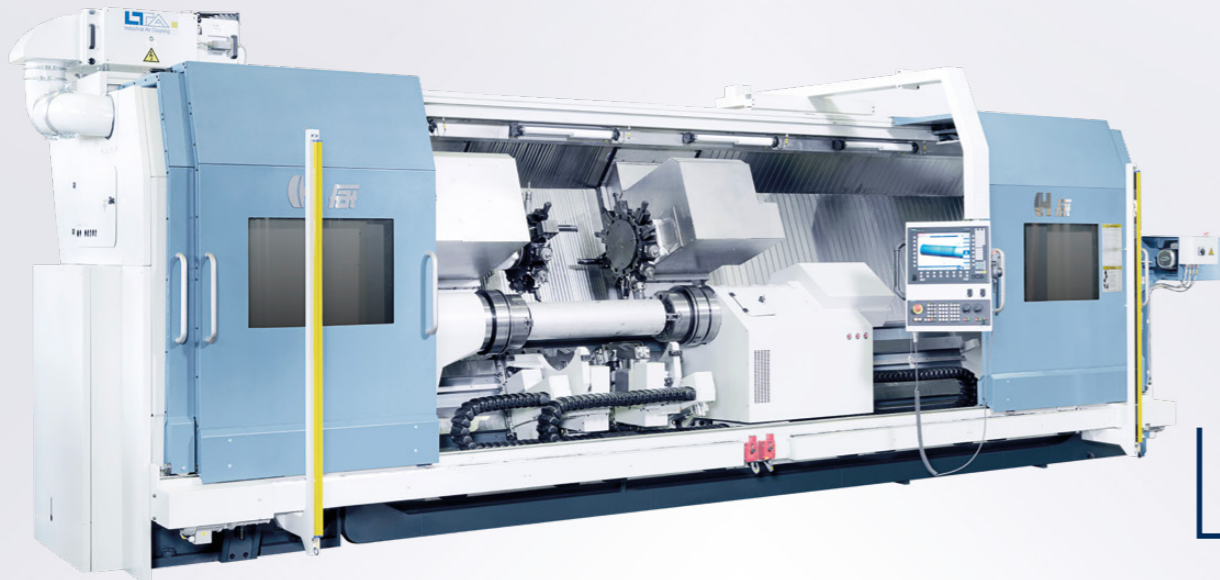
Double scrappers with compressed air for special guide ways security against grinding powder.

TECHNICAL PARAMETERS: TUR MN 1150/1350/1550

		TUR 1150 MN	TUR 1350 MN	TUR 1550 MN	
CAPACITY					
Distance between centers (other lengths on special request)	mm	2.000 – 4.000 – 6.000... – 16.000			
	in	79 – 157 – 236... – 630			
Swing over bed	mm / in	1150 / 45	1350 / 53	1550 / 61	
	mm	700	900	1.100/1.300	
Swing over bed	in	27,5	35,5	43,3/51,1	
	mm/in	580 / 22,8			
Max. weight between centers (without steadies)	kg / lbs	12.000 (20.000 option) / 26.400			
Max. weight between centers (with one steady)	kg / lbs	15.000 / 33.000			
Max. weight between centers (with two steadies)	kg / lbs	18.000 / 39.600			
Max. weight in chuck only	kg / lbs	3.000 / 6.600			
HEADSTOCK					
Number of spindle ranges		2	2	2	
Top spindle speed ranges (standard machine with 140 mm spindle bore)	rpm	I: 2–225, II: 180–1000	I: 2–225, II: 180–1000	I: 2–225, II: 180–1000	
Main drive motor power (S6)	kW	56	56	56	
Max. Turning torque	Nm	8 250; (optional up to 32 000)			
Standard execution 140:					
Spindle nose	DIN55026	A2-15			
Spindle bore	mm	140	140	140	
Front bearing	mm	250	250	250	
Special execution:					
Spindle nose	mm	220	320	360	450
Spindle nose	DIN 55026	A2-15	A2-20	A2-20	A2-28
Max speed	rpm	1000	500	450	350
SADDLE					
Cross slide travel X-axis	mm / in	650 / 25,5	750 / 29,5	775 / 30,5	
Rapid travel Z-axis	m/min / imp	8 / 310			
Rapid travel X-axis	m/min / imp	10 / 390			
Feed force transverse	kN / lbf	25 / 5.000			
	kN	35 / 47			
Feed force longitudinal	lbf	7700 / 10550			
Ball screw Z-axis (2,4m b.c.)	mm / in	80 / 3,1	80 / 3,1	80 / 3,1	
Drive Z-axis (6m and longer)	-	gear drive			
Ball screw X-axis	mm / in	40 / 1,6	40 / 1,6	40 / 1,6	
Carriage length bearing on bed ways	mm / in	1.150 / 45,3	1.150 / 45,3	1.150 / 45,3	
Width of cross guide ways (linear guide ways)	mm / in	366 / 14,4	366 / 14,4	366 / 14,4	
Manual Tool post Type Multifix	size	D2			
Automatic tool turret with 8-pos. tool disc (option)	DIN69880	VDI 60			
Automatic 4-pos. tool turret "HEAD-Type" (option)	DIN69881	NG40			
TAILSTOCK					
Quill diameter	mm / in	220 (280 option) / 8,6			
Quill taper for dead centre	size	MT 6			
Quill stroke	mm / in	300 / 11,8			
GENERAL					
Width of bed ways	mm / in	1020 / 40			
Height of bed ways	mm / in	755 / 30			
Total length of machine *					
2.000 mm b.c.	mm / in	5.200 / 205			
4.000 mm b.c.	mm / in	7.200 / 283			
6.000 mm b.c.	mm / in	9.200 / 362			
16.000 mm b.c.	mm / in	19.200 / 756			
Width of machine	mm / in	3.300 / 130			
Width of machine for transport	mm / in	2.350 / 93			
Height of machine	mm / in	2.250 / 100	2.250 / 100	2.750 / 108	
Weight of machine (approx.)					
2.000 mm b.c.	kg / lbs	16.500 / 36.383	17.300 / 38.147	18.100 / 39.911	
4.000 mm b.c.	kg / lbs	19.000 / 41.895	19.800 / 43.659	20.600 / 45.423	
6.000 mm b.c.	kg / lbs	21.500 / 47.408	22.300 / 49.172	23.100 / 50.936	
16.000 mm b.c.	kg / lbs	34.000 / 74.800	34.800 / 76.560	35.600 / 78.320	

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.



Standard 12 position tool turret

MACHINE STANDARD EQUIPMENT

- CNC Siemens 840D SL
- 12-position tool turret
- 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



FCT 700 x 4100 with double saddle and subspindle

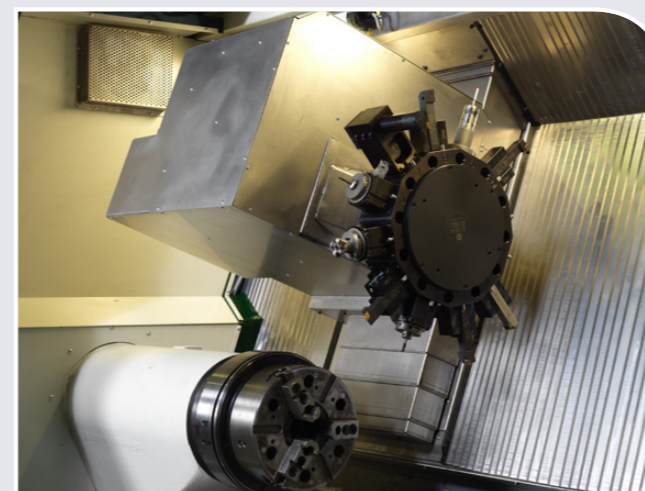
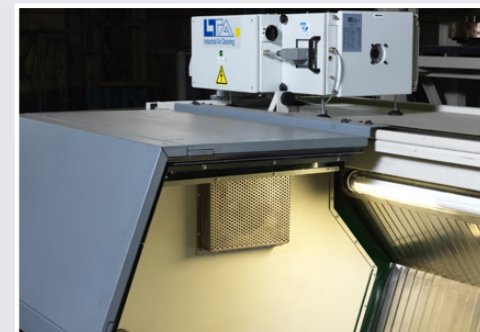


two machines FCT 700 x 2100 with robot integrated together with Fanuc system control



Sauter 12 position turret radial Tool drive

Oil mistextraction



Renishaw probe installed in turret socket





FCT 700 x 5100 with Fanuc OiF, automatic door, hydraulic chuck, self centering steady rest

FCT 700 x 1600 with 12 position disc turret with integrated Y-axis



TECHNICAL PARAMETERS: FCT 700

Standard execution 105:
Special execution 140 / 220:

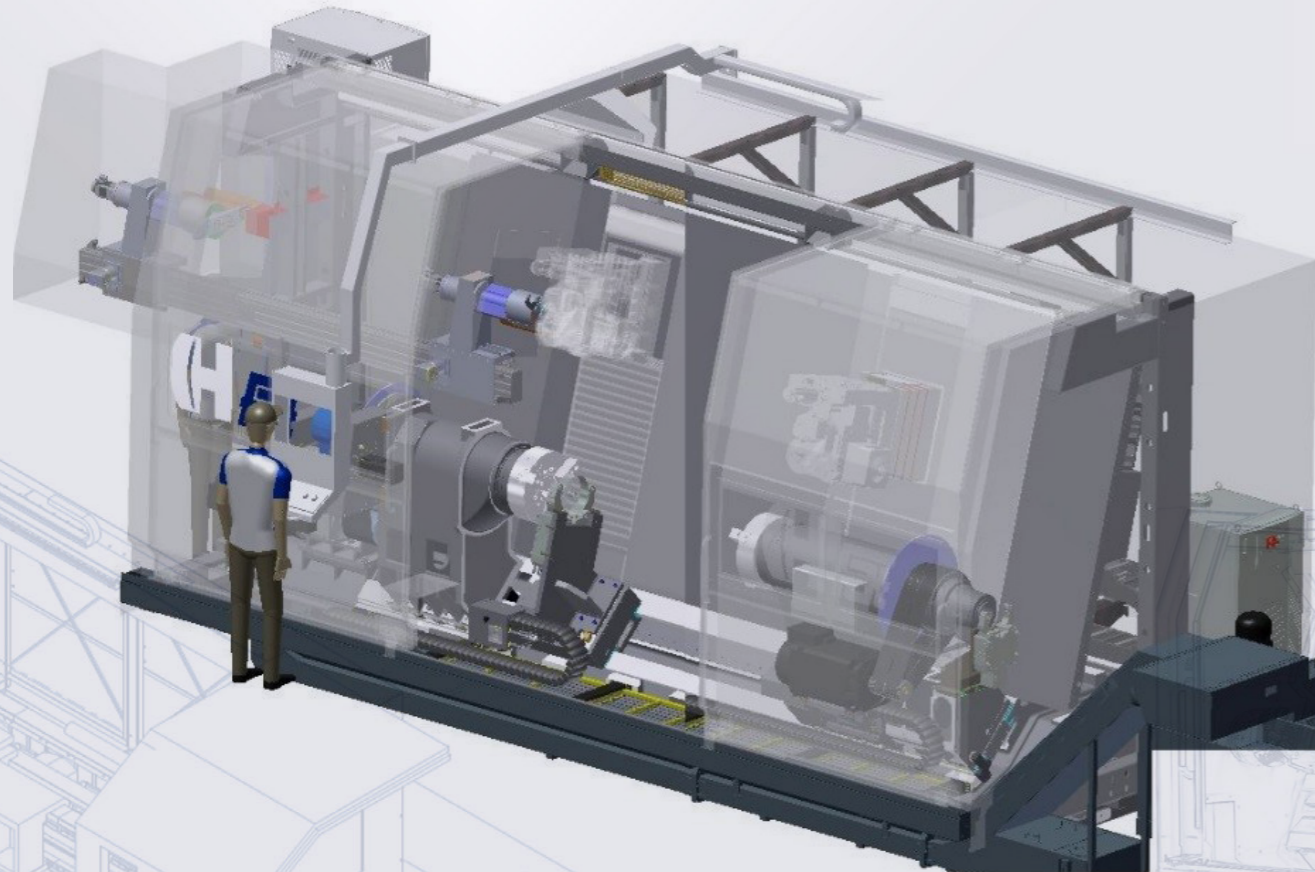
		FCT 700	
CAPACITY			
Distance between centres	mm	1100 - 1600 - 2100 - 3100 - 4100-5100	
Swing over bed	mm	700 (840 option)	
Swing over saddle	mm	490 (630 option)	
Max. weight between centres (without steadies)	kg	2.500	
Max turning diameter	for outside seat of tool disc	mm	630
	for inside seat of tool disc	mm	700
HEADSTOCK			
Spindle drive		Direct drive with C-axis positioning	
Main drive motor power	kW	33	
Spindle bore	mm	105	
Top spindle speed	rpm	2200	
Max. turning torque with direct drive	Nm	750	
Max. turning torque with 2-range gearbox	Nm	3000	
Spindle nose (DIN 55026 / ISO702/I)		A2-8	
Spindle inner taper	mm	115	
Spindle bore	mm	140	220
	Top spindle speed	rpm	1800
Max. turning torque with direct drive	Nm	750	
Max. turning torque with 2-range gearbox	Nm	3000	
Spindle nose (DIN 55026 / ISO702/I)		A2-11	A2-15
SADDLE			
Cross slide travel X-axis	mm	460	
Rapid travel Z-axis	m/min	20	
Rapid travel X-axis	m/min	20	
Feed force transverse	kN	21	
Feed force longitudinal	kN	21	
Ball screw Z-axis	mm	50	
Ball screw X-axis	mm	40	
Width of saddle slideways	mm	250	
TOOLTURRET			
12-position tool turret for static tooling		VDI 50	
12-position tool turret for rotating tools		VDI 50	
Capacities of tooldrive (max speed/power/torque)	rpm/kW/Nm	2500 / 11,3 / 65	
TAILSTOCK			
Quill diameter	mm	120	
Quill taper	MT	MT 5	
Quill stroke	mm	100	
SUB-SPINDLE			
Spindle bore	mm	90	
Top spindle speed	rpm	1800	
Spindle nose (DIN 55026 / ISO702/I)		A2-8	
Max. turning torque	Nm	950	
Max. motor power	kW	33	
GENERAL			
Width of bed guide ways - 70° slant bed	mm	395	
Total length of machine			
Width of machine	mm	2360	
Height of machine	mm	2540	
Weight of machine (approx.)			
FCT 700 x 1100	kg	9600	
FCT 700 x 1600	kg	11300	
FCT 700 x 2100	kg	12600	
FCT 700 x 3100	kg	14100	
FCT 700 x 4100	kg	15500	
FCT 700 x 5100	kg	16900	

FCTS900

The new **FAT FCTS slant bed CNC lathe** has a heavy duty bed made of cast iron. The swing over bed 900mm with distance between centers of 1100, 2100, 3100mm, 4100mm up to 5100mm. The machine is equipped with a Siemens 840 D SL CNC system with Shop Turn application for turning and milling. The machine can be equipped with different hydraulic power chucks, 12-position tool turret (VDI 50) with static or live tooling, hydraulic self-centering steady rest, C-axis, chip conveyor, milling head B-axis and many other options bringing you a powerful production unit.

Compared the FCTS machine with flat bed or other CNC lathes, main FCTS advantages are:

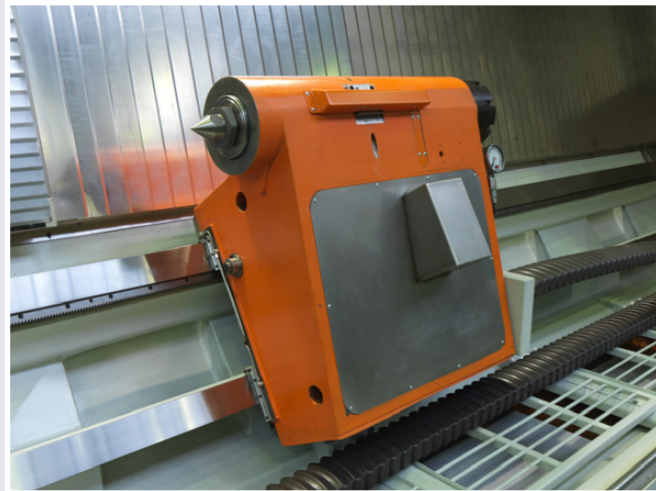
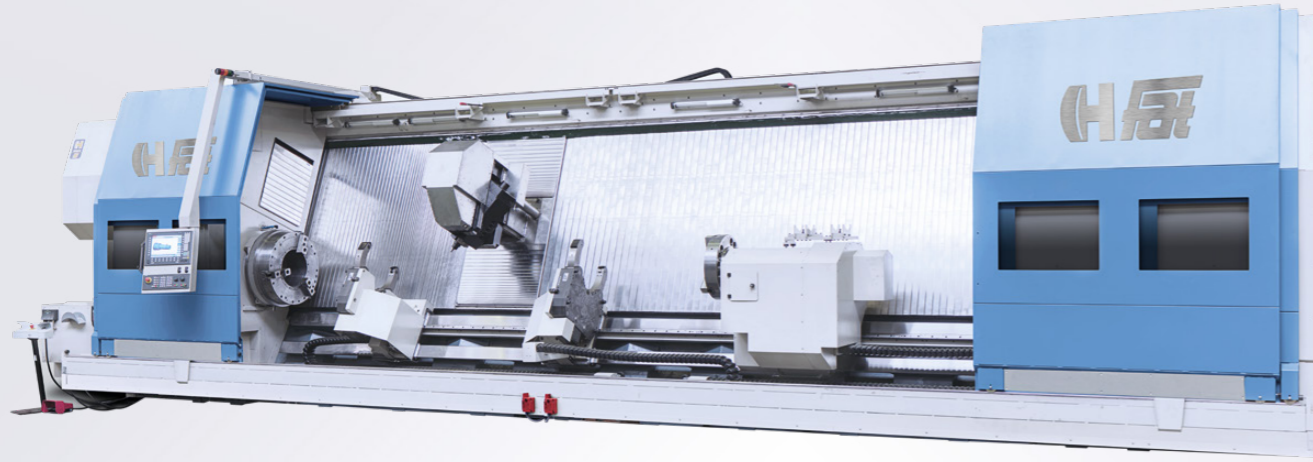
- 1) Easy chip disposal from within work area to a chip conveyor.
- 2) Easy access of an operator to the workpiece. Thus handling and operating the chuck is as easy as never before.
- 3) 4 guide ways system. Independent drive of the tool over steady rests.



TECHNICAL PARAMETERS: FCTS900		
		FTMS 900
CAPACITY		
Distance between centers	mm	1100 - 2100 – 3100- 4100 - 5100
Swing over bed	mm	900
Swing over saddle	mm	900
Max. Weight between centers (without steadies)	kg	4500
Max. Weight in chuck only	kg	1000
Max turning diameter	mm	900
HEADSTOCK		
Number of spindle ranges	2	Direct drive with C-axis positioning
Main drive motor power (S1 / S6)	kW	37/56
Standard execution 140:		
Spindle bore	mm	140
Top spindle speed	rpm	1800
Max. turning torque with 2-range gearbox	Nm	4000
Spindle nose (DIN 55026 / ISO702/I)		A2-11
Special execution 220:		
Spindle bore	mm	220
Top spindle speed	rpm	1200
Max. turning torque with 2-range gearbox	Nm	4000
Spindle nose (DIN 55026 / ISO702/I)		A2-15
SADDLE		
Cross slide travel X-axis / (with B-axis)	mm	620 / 990
Y-axis travel (option version FCTS Y)	mm	210 (±105)
Y-axis long travel (option version FCTS YH) Watch out the limits with big milling heads	mm	450 (+245/-205)
Rapid travel Z-axis	m/min	20
Rapid travel X-axis	m/min	20
Rapid travel Y-axis	m/min	20
Feed force transverse	kN	17,5
Feed force longitudinal	kN	17,5
Ball screw Z-axis	mm	63
Ball screw X-axis	mm	40
Ball screw Y-axis	mm	40
Width of slide ways	mm	X=600, Y=600, Z=640
TOOLTURRET		
12-position tool turret for static tooling	DIN69880	VDI 50
TAILSTOCK		
Quill diameter	mm	160
Quill taper	MT	MT 6
Quill stroke	mm	150
SUBSPINDLE (option)		
Spindle bore	mm	105
Top spindle speed	rpm	1800
Spindle nose (DIN 55026 / ISO702/I)		A2-8
Max. turning torque	Nm	950

FTM 1000

FTM 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 1000mm. Distance between centers: from 1.500mm up to 12.500mm.

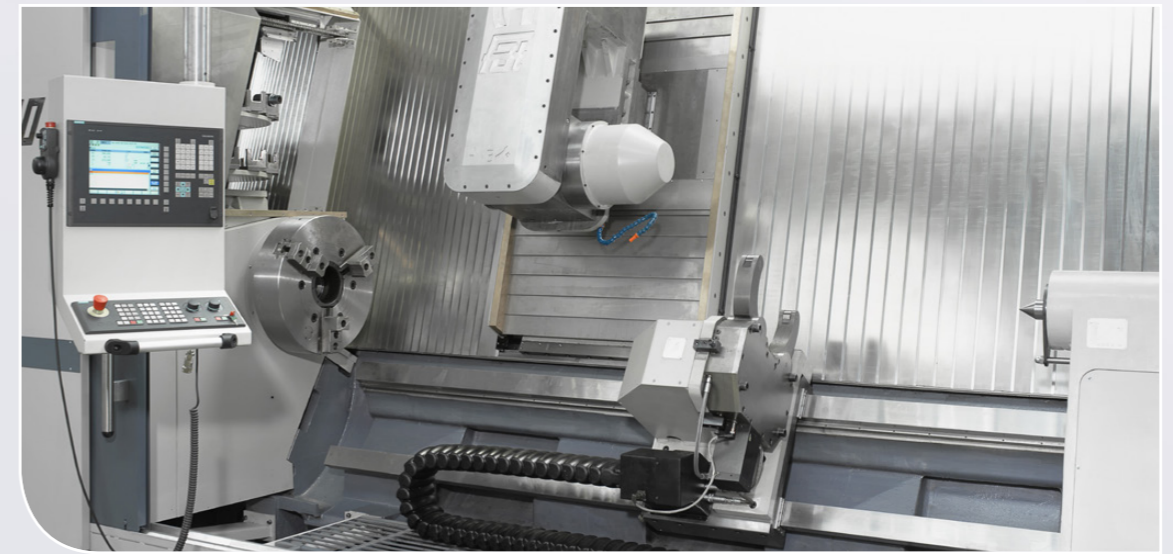
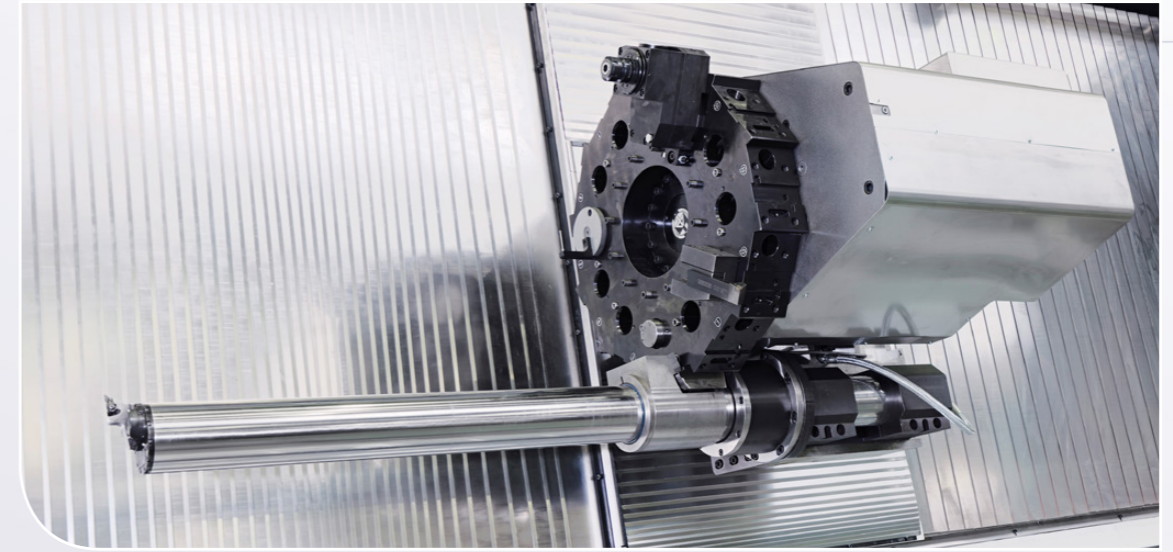


Hydraulic tailstock with automatic clamping to bed. Can be equipped with separate NC-drive



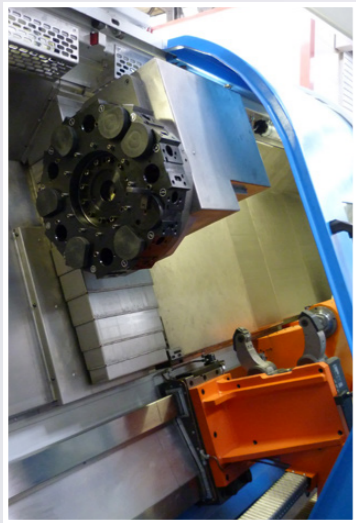
MACHINE STANDARD EQUIPMENT

- 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



MACHINE OPITONAL EQUIPMENT

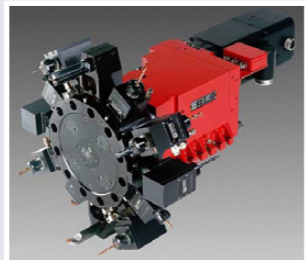
MANY DIFFERENT TOOLING SYSTEMS



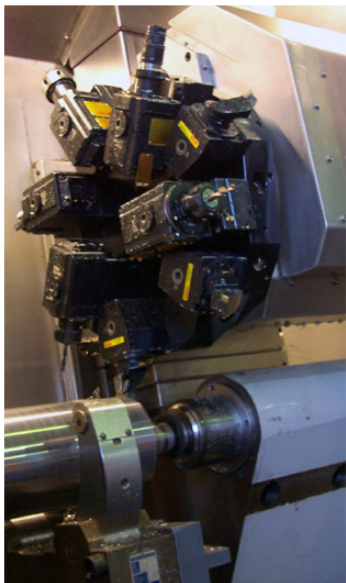
Tool turret for driven tools



Turret with star type tool-disc Sauter or Baruffaldi



Tool magazine disc or chain type



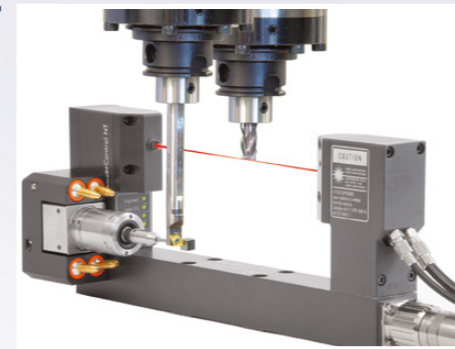
Tool turret for driven tools with integrated Y-axis



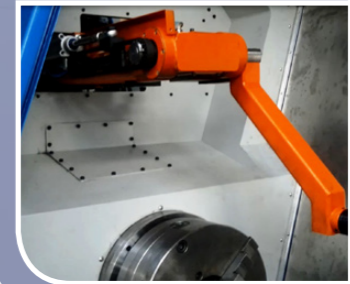
B-axis milling-turning head



Additional coolant station with high pressure pump and filtration



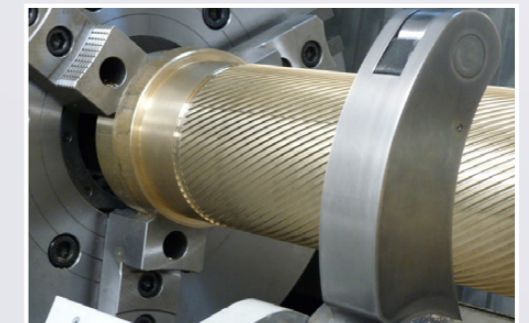
Combined tool setting system: noncontact measurement of rotating tools with laser and touch probe for static tools



Manual tool measuring arm



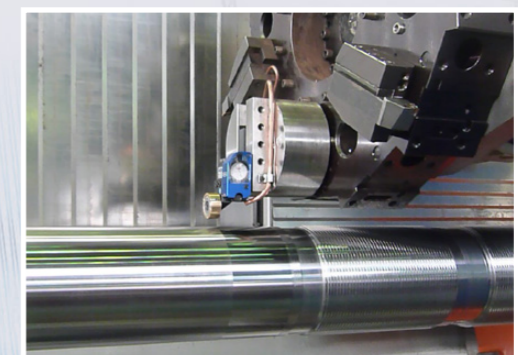
Hydraulic handle



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

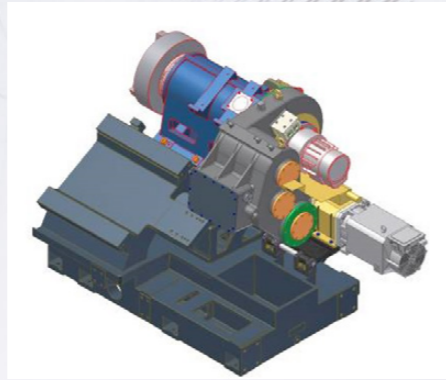
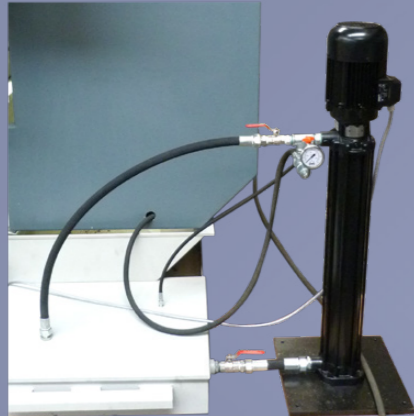


Touch probe for work-piece measuring

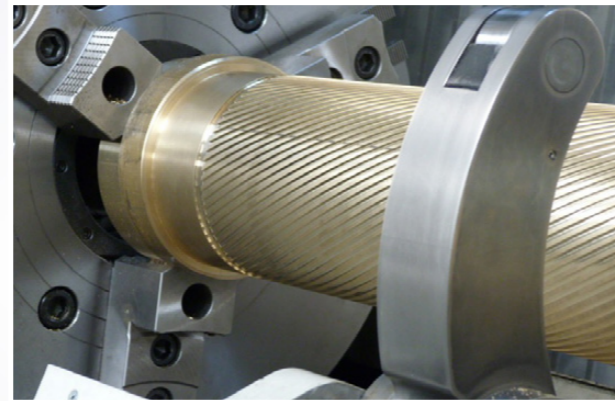
Automatic measuring arm is hidden in the spindle box area behind automatic door. It comes into working area from the top of spindle for measuring operations. With this system it is possible to measure the tools when the work piece is installed on the machine.



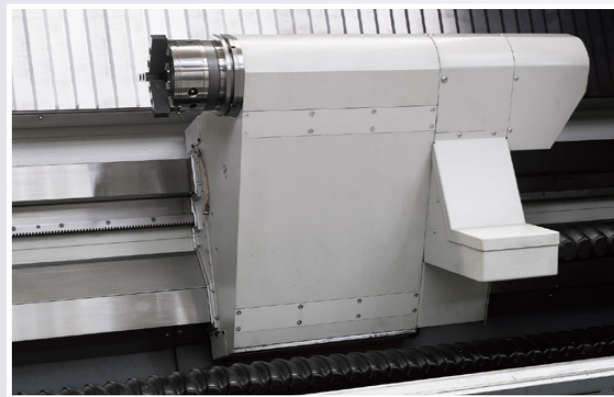
Coolant stations with high pressure pumps and filtration



Additional heavy-duty gearbox for increasing torque of spindle



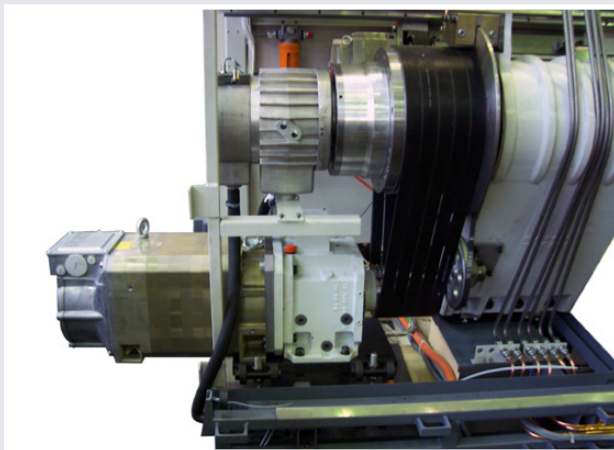
Hydraulic chuck



Motorized sub-spindle



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



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).

TECHNICAL PARAMETERS: FTM 1000

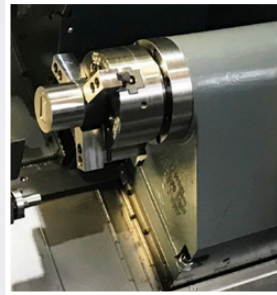
		FTM 1000		
CAPACITY				
Distance between centres	mm	1.500 – 2.500 – 3.500 – 4.500 ... 12.500		
Swing over bed	mm	1.000		
Swing over saddle	mm	1.000		
Max turning diameter	mm	1.000		
Max weight in chuck only (chuck included)	kg	2.500		
Max weight between centers (without steadies)	kg	7500		
HEADSTOCK				
Number of spindle ranges		2 step automatic gearbox		
Top spindle speed	rpm	1800		
Main drive motor power (S6)	kW	56		
Max. turning torque with 2-range planetary gearbox	Nm	4000		
Spindle nose	DIN 55026	A2-15		
Spindle inner taper	mm	150		
Spindle bore without hydraulic cylinder and chuck	mm	140		
Special spindle bore	mm	220	320	360
Top spindle speed for special spindle bores	rpm	1200	500	350
SADDLE				
Cross slide travel X-axis	mm	660		
Y-axis travel integrated with machine	mm	±200		
Rapid travel Z-axis	m/min	22		
Rapid travel X-axis	m/min	16		
Rapid travel Y-axis	m/min	10		
Feed force Z-axis	kN	43		
Feed force X-axis	kN	25		
Feed force Y-axis	kN	20		
TOOLTURRET				
12-position tool turret for static tooling	DIN69880	VDI 60		
TAILSTOCK				
Quill diameter (built in live quill)	mm	200		
Quill taper		MT 6		
Quill stroke	mm	300		
SUBSPINDLE (option)				
Motor power (S6)	kW	33		
Max torque (option)	Nm	750 (3000)		
Top spindle speed	rpm	2500		
Spindle bore	mm	105		
Spindle nose	DIN 55026	A2-11		
Rapid travel	m/min	7,5		
Feed force	kN	15		
Clamping force	kN	30		
GENERAL				
Total length of machine				
FTM 1000 x 1500	mm	7850		
FTM 1000 x 2500	mm	8850		
FTM 1000 x 7500	mm	13850		
Width of machine	mm	3000		
Height of machine	mm	3100		
Weight of machine (approx.)				
FTM 1000 x 1500	kg	25500		
FTM 1000 x 2500	kg	28500		
FTM 1000 x 7500	kg	43500		

FTM 165

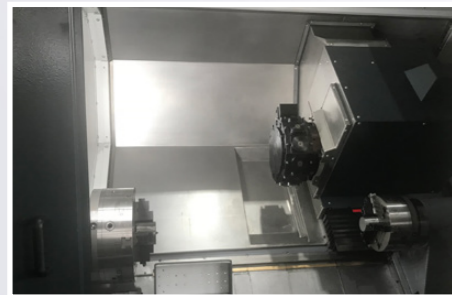
Based on our experience gained on the larger FTM machines, this new model is the smallest in the range of highly flexible turn / mill centres available from FAT Haco. Its exceptional stability is based on a machine whose structures are produced in our own foundry which, together with the use of high precision components and unrivalled quality of assembly, will ensure many years of reliable service.



Standard 12 position turret with static tools VDI 30 seats



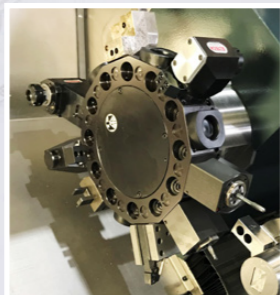
Sub-spindle



FTM 165 with Y axis turret and subspindle



Hydraulic tailstock stroke 15mm
Automatic part catcher



FTM 165 with turret „star” and subspindle and part catcher

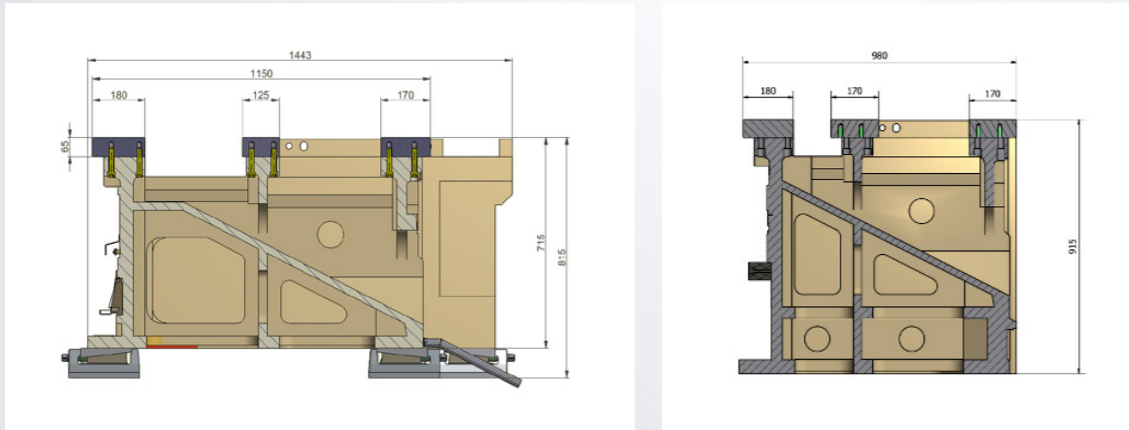
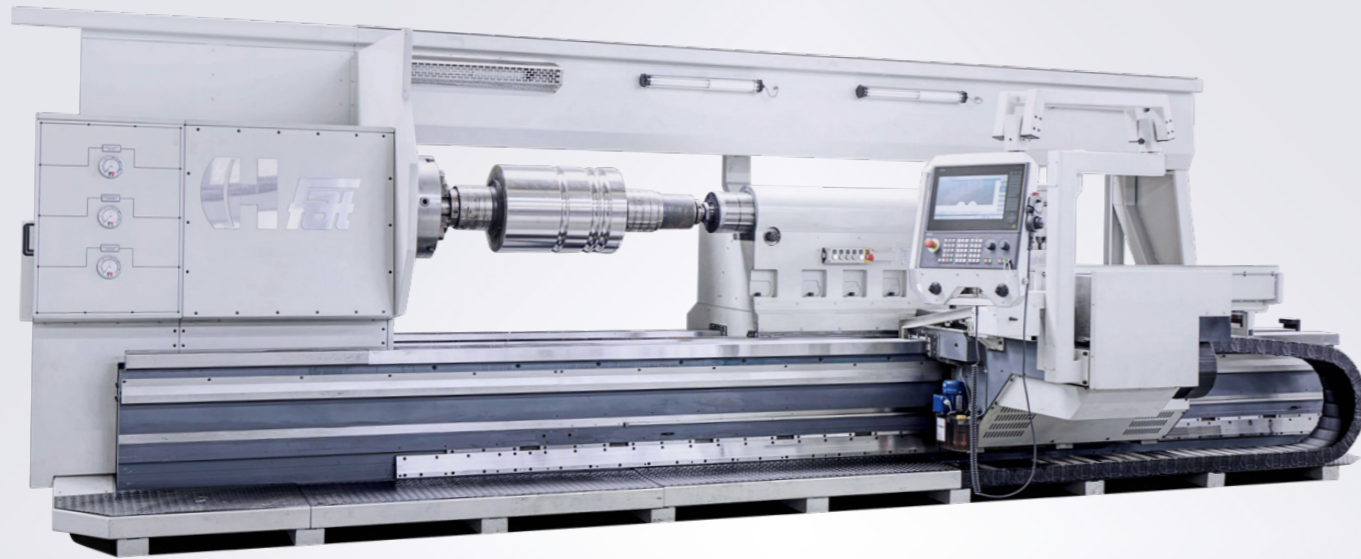


TECHNICAL PARAMETERS: FTM 165

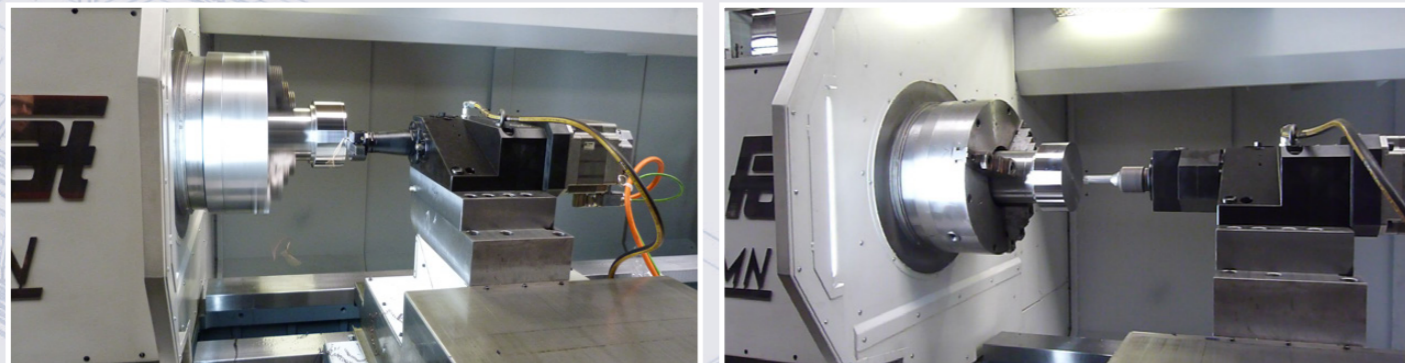
		FTM 165	
CAPACITY			
Distance between centers	mm	600 – 1.000	
Swing over bed	mm	550	
Max turning dia.	static tool disc VDI 30	mm	340
	driven tool disc VDI 30 (option)	mm	340
HEADSTOCK			
Top spindle speed	rpm	5.000	
Main drive motor power	kW	20	
Max. turning torque	Nm	190	
Spindle bore without hydraulic cylinder and chuck		80, 105-option	
SADDLE			
Cross slide travel X-axis	mm	210	
Rapid travel Z-axis	m/min	30	
Rapid travel X-axis	m/min	30	
TOOL TURRET			
12-position turret for static tools	VDI 30; VDI 40	210	
12-position turret for dynamic tools (o)	VDI 30; VDI 40	30	
Number of driven positions (o)	12	55	
Max speed of rotating tool (o)	rpm	6000	
Max torque of rotating tool (o)	Nm	16	
TAILSTOCK			
Quill taper	mm	MT4	
Travel method		auto positioning	
Quill diameter	mm	55	
Hydr. stroke of tailstock	mm	15	
Thrust	N	4.400	
SUBSPINDLE			
Speed rate	rpm	0-4500	
Rapid travel	m/min	30	
Spindle nose	DIN55026	A2-5	
Max. Turning torque	Nm	140	
Subspindle bore total	mm	30	
Subspindle bore partial	mm	45	
GENERAL			
Width of machine	mm	1.940	
Height of machine	mm	1.860	
Length of machine	mm	3.600 / 3.800	
Weight of machine (approx.)		140	
FTM 165 x 600 / 1000	kg	4500 / 5300	
Control system	Type	Siemens 840 D SL	

TUR 3MN/4MN

TUR 3MN is a lighter version of a 4 - guideways lathe. It enables machining of pieces at diameter up to 2.000 mm and weight to 15.000 kg. Similarly as in case of other FAT lathes, this machine can be designed in different configurations using many options.



Due to compact design of the bed, the machine takes little space while keeping rigidity. Standard version and compact version



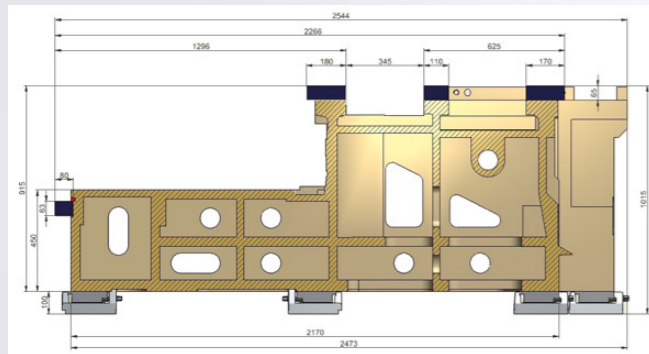
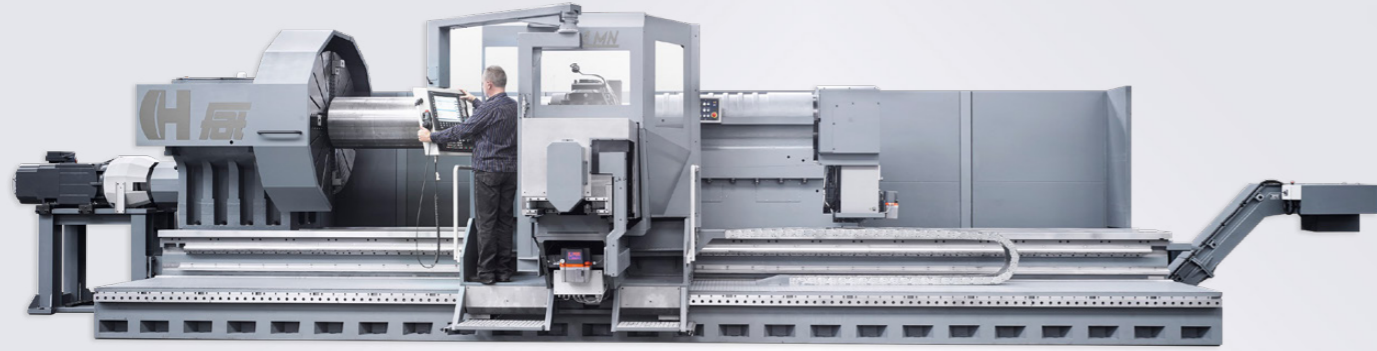
Tooling system WTO for turning, milling and drilling

TECHNICAL PARAMETERS: TUR 3MN

		TUR 3 MN			
		Standard	Heavy		
CAPACITY					
Distance between centres (other lengths on special request)	mm	4.800 – 6.400 – 8.000 – 9.600 ... 16.000			
	in	189 – 252 – 315 – 378 ... 630			
Swing over bed	mm	1.300 – 1500 – 1.800			
	in	51 – 71			
Swing over saddle	mm	1.100 – 1300 – 1.600			
	in	39 – 63			
Max. weight between centers (without steadies)	kg	12.000	20.000		
	lbs	19.800	44.000		
Max. weight in chuck only	kg	3.000	3.000		
	lbs	6.600	6.600		
HEADSTOCK					
Number of spindle ranges		2			
Top spindle speed ranges	rpm	I: 2–225, II: 180-1.000	I: 2–120 II: 100-700		
Main drive motor power (S1/S6)	kW	37/83	80/98		
	hp	50/112	108/133		
Max. Turning torque	Nm	9.000	32.000		
	ft-lb	6.630	23.600		
Normal execution:					
Spindle bore diameter:	mm	140	260		
	in	5,5	10,2		
Spindle nose	DIN55026	A2-15	A2-15		
Max speed	rpm	1.000	700		
Special executions:					
Spindle nose	DIN55026	A2-15	A2-20	A2-20	A2-28
Max speed *	rpm	1.000	500	450	350
Spindle bore diameter	mm	220	320	360	450
	in	8,6	12,5	14	17,7
SADDLE					
Rapid travel Z-axis	m/min	6			
	ipm	236			
Rapid travel X-axis	m/min	6			
	ipm	236			
Feed force transverse	kN	35 / 47			
	lbf	7700 / 10550			
Feed force longitudinal	kN	40			
	lbf	8.900			
TAILSTOCK					
Quill diameter	mm	220	280		
	in	8,6	11		
Quill stroke	mm	300	300		
	in	11,8	11,8		

TUR 3MN/4MN

The TUR 4MN is a heavy duty 4-guideway lathe designed for highly efficient machining of long and heavy workpieces. This machine can be used for machining of workpieces at length up to 16 m and weight of 80.000 kg.



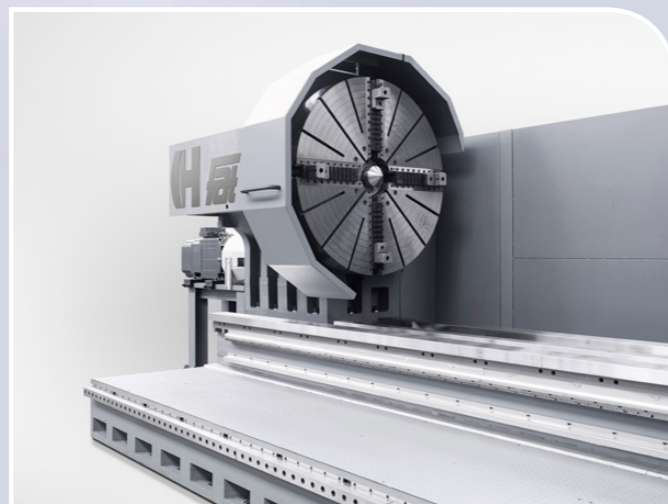
◀ The enormous wide step bed is made from high-grade cast iron. The upper guide ways are hardened and ground, with high quality steel inserts assembled using "Guide Easy FIX" technology.



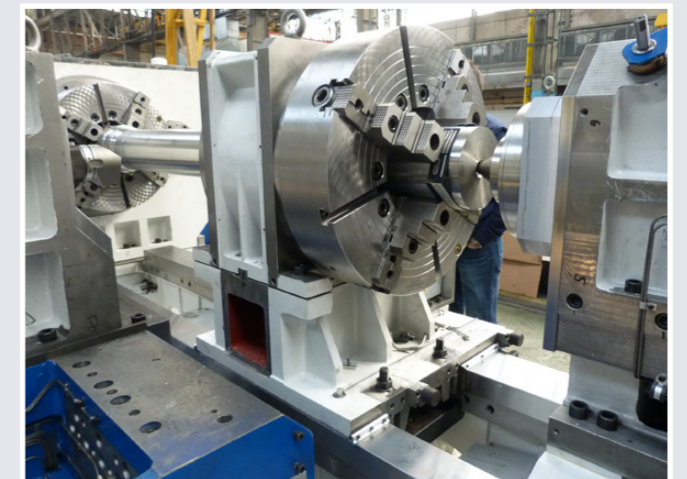
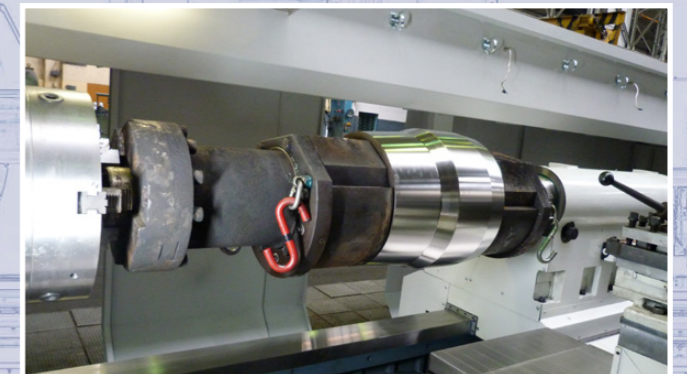
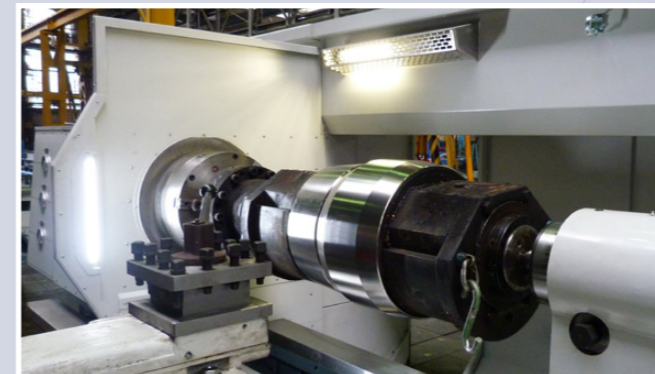
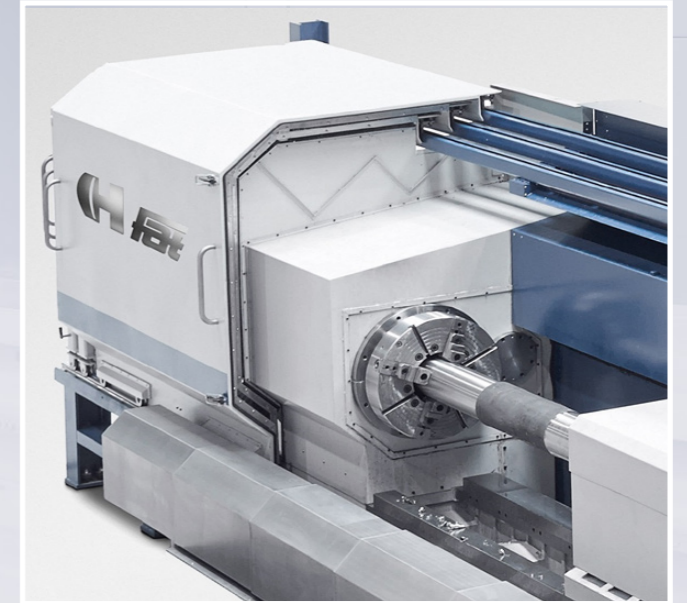
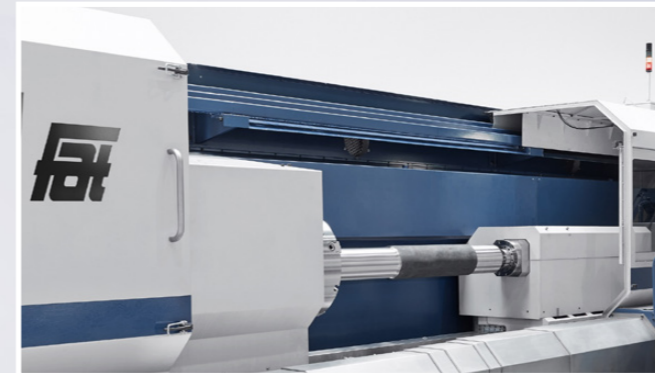
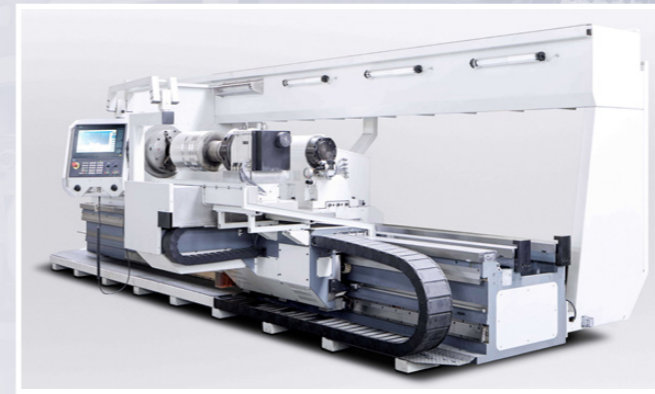
◀ 4 position tool turret

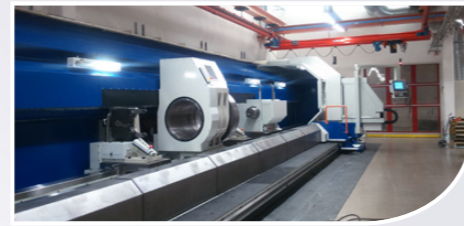
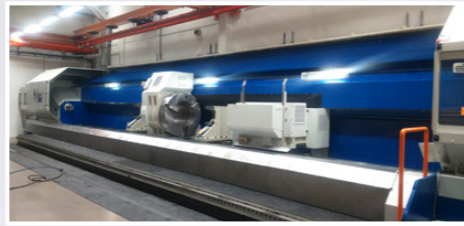
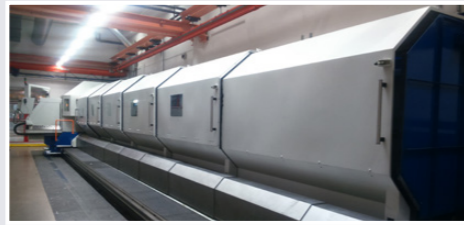
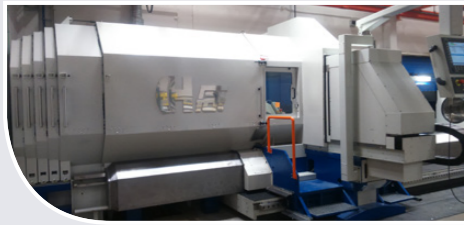


▲ Tailstock with quill's diameter 400 mm and stroke 300 mm.



▲ The heavy duty headstock is equipped with 185 mm spindle bore. Thanks to the planetary gearbox, the maximum turning torque is 100.000 Nm.





TUR 4MN with full enclosure

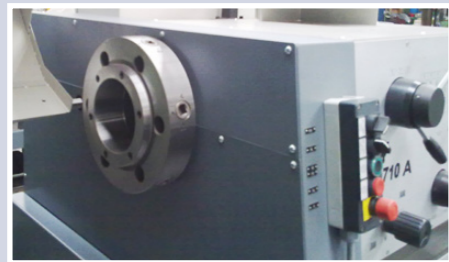
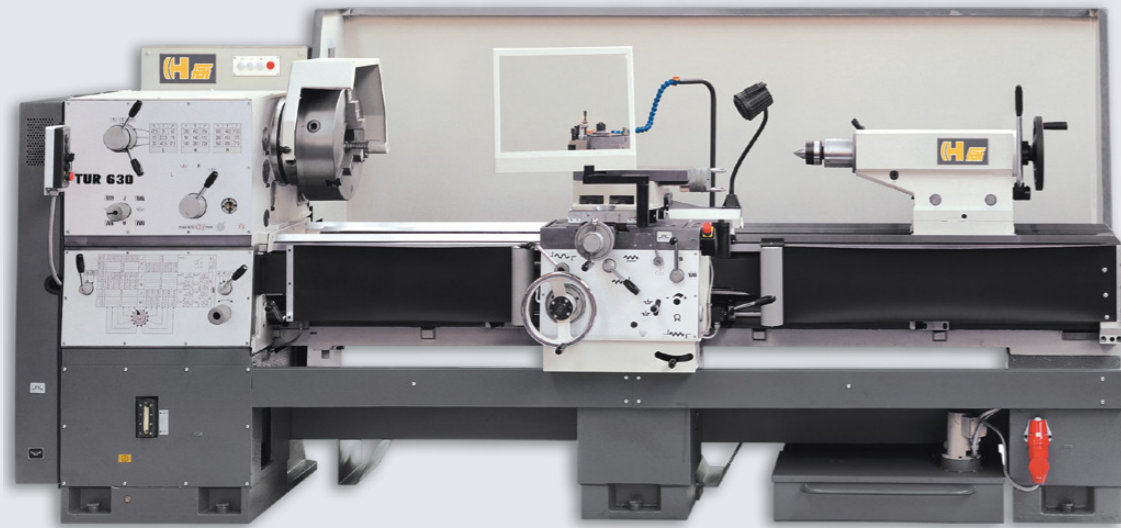


TECHNICAL PARAMETERS: TUR 4MN

		TUR 4 MN					
		Standard		Medium		Heavy duty	
CAPACITY							
Distance between centres (other lengths on special request)	mm	4800 – 6400 – 8000 – 9600 – 11200 – 12800 – 14400 – 16000					
	in	189 – 252 – 315 – 378 – 441 – 504 – 567 – 630					
Swing over bed	mm	700 – 1100 – 1600 – 1800 – 2000 – 2300					
	in	27,5 – 43,3 – 63 – 70,9 – 78,7 – 90,5					
Swing over saddle **	mm	700 – 1100 – 1200 – 1400 – 1600 – 1900					
	in	27,5 – 43,3 – 47 – 55 – 63 – 74,8					
Max. weight between centers (without steadies)	kg	12.000	15.000		30.000		Optionally up to 60.000
	lbs	19.800	33.000		66.000 / 132.000		
Max. weight in chuck only	kg	3.000	3.000		5.000		
	lbs	6.600	6.600		11.000		
HEADSTOCK							
Number of spindle ranges		2					
Top spindle speed ranges	rpm	I: 2-200, II: 180-900		I: 2-120, II: 100-700		I: 2-90, II: 80-360	
Main drive motor power (S1/S6)	kW	37/56		80/98		71/105	
	hp	50/76		108/133		96/142	
Max. Turning torque	Nm	8.250		32.000		45.000	
	ft-lb	6.082		23.594		33.179	
Spindle bore diameter:	mm	140		260		185	
	in	5,5		10,2		7,3	
Spindle nose	DIN55026	A2-15		A2-15		A2-20	
Max speed	rpm	900		700		400	
Front bearing	mm	250		400		460	
	in	9,8		15,7		18,1	
Spindle nose	DIN55026	A2-15	A2-20	A2-20	A2-28	-	A2-28
Max speed	rpm	700 (900)	500 (900)	350 (500)	350	-	350
Spindle bore diameter	mm	220	320	360	450	-	460
	in	8,6	12,5	14	17,7	-	18
Front bearing	mm	380	520	560	670	-	670
	in	15	20,5	22	26,4	-	18
BLADE SYSTEM SADDLE							
Rapid travel Z-axis	m/min	6					
	ipm	236					
Rapid travel X-axis	m/min	6					
	ipm	236					
Feed force transverse	kN	35					
	lbf	7800					
Feed force longitudinal	kN	40					
	lbf	8900					
TAILSTOCK							
Quill diameter/* dimension	mm	220		*280x280		400 / 480x480	
	in	8,6		*11x11		15 / 18,9 x 18,9	
Quill stroke	mm	300		250		300	
	in	11,8		9,8		11,8	
ELECTRIC AND CNC CONTROL							
Voltage		3x400 V AC +/-10%		3x400 V AC +/-10%		3x400 V AC +/-10%	
Frequency		50Hz +/-5%		50Hz +/-5%		50Hz +/-5%	

TUR CONVENTIONAL

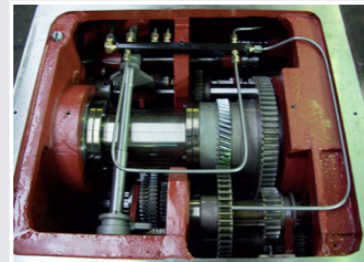
The rigid construction of the machine, the high motor power of 15 kW, the wide range of spindle speeds and high top cutting speeds all allow the operator to select cutting parameters and perform the machining of different materials.



Spindle with bore 140 mm and double nose



Taper turning attachment

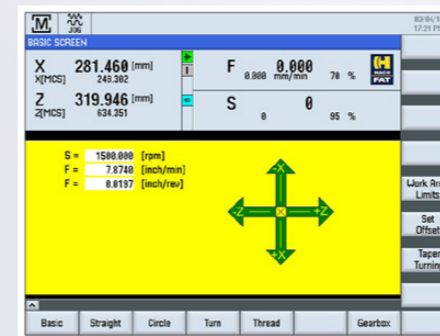


The head stock drives the spindle and contains the speed selection transmission which provides a range of 21 spindle speeds. The feed box contains a three chamber transmission for the selection of feeds and threads. The main spindle is powered by a 15 kW motor.

PARAMETRY TECHNICZNE: TUR conventional						
		TUR 560	TUR 630	TUR 630A	TUR 710	TUR 710A
CAPACITY						
Distance between centres	mm	1.000-2.000-3.000-4.000				
Swing over bed	mm	560	630	630	710	710
Swing over saddle	mm	320	380	380	440	440
Max. weight between centres (without steadies)	kg	1.500	1.500	1.500	1.500	1.500
HEADSTOCK						
Number of spindle speeds		21	21	21	21	21
Spindle speed	rpm	18-1.800	18-1.800	15-1.400	18-1.800	15-1.400
Spindle bore	mm	105	105	140	105	140
Main motor power	kW	15	15	15	15	15
SADDLE						
Cross slide travel	mm	345			407	
Top slide travel	mm	155				
TAILSTOCK						
Tailstock quill diameter	mm	100	100	100	100	100

TUR 560/630/710 SC

The TUR SC is a combination of a conventional and a CNC high-precision lathe. A great advantage to the user is the possibility of using defined machining operations without special programming knowledge. Reduced machining times, uniform precision of all parts in a batch, as well as taking away from the operator much routine work, demonstrates a new level of production efficiency.



Simplified controller allows the operator to use easy macros without knowledge of programming skills



Covers for manual operations



Compact headstock with direct drive and planetary gearbox

TECHNICAL PARAMETERS: TUR 560/630/710 SC				
		TUR SC 560	TUR SC 630	TUR SC 710
CAPACITY				
Distance between centres	mm	1.000-2.000-3.000-4.000		
Swing over bed	mm	560	630	710
Swing over saddle	mm	300	370	450
Max. weight between centres	kg	2.000		
HEADSTOCK				
Spindle speed	rpm	4 -1.800		
Main drive motor power (S1)	kW	12		
Spindle bore	mm	105		
SADDLE				
Cross slide travel X-axis	mm	365	390	410
TAILSTOCK				
Quill diameter	mm	100		

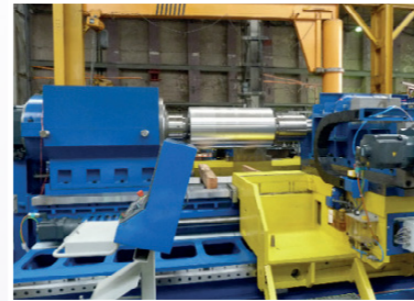
SPECIAL MACHINES

Based on the combination of our broad experience in lathe manufacturing, our constant development and improvements and fulfilling our customer's requests, our product range has been expanded to include special machines dedicated to meet specific requests from our clients. We are not only focused on producing standard, small horizontal lathes. Our aim is to provide huge stand-alone machines and also manufacture complete production lines for complicated machining operations to include turning, grinding, boring and other complex operations. Below, we have examples of completed and current projects.

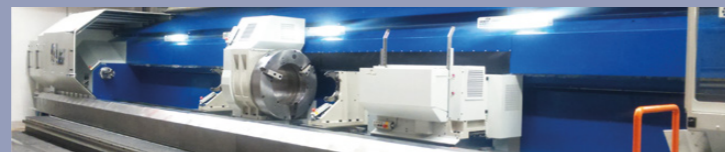
TUR 4 MN 3.000 x 22.000 - turning machine consists of two independent beds. This solution enables machining of shafts up to 3.000 mm in diameter and 22.000 mm in length. The machine is equipped with a



TUR 6 MN - a lathe equipped with a 6 guideway bed and double saddle system. Designed for highly efficient machining of aluminum billets.



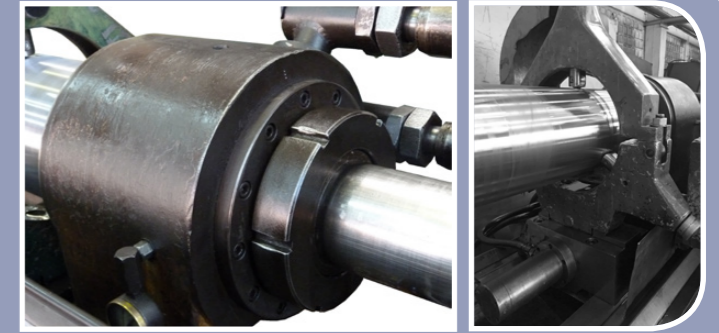
A lathe designed for machining of long pieces. Due to very special machining requirements, this lathe is equipped with movable headstock with separate drive. Thanks to this solution, the headstock can be positioned in every position along the bed.



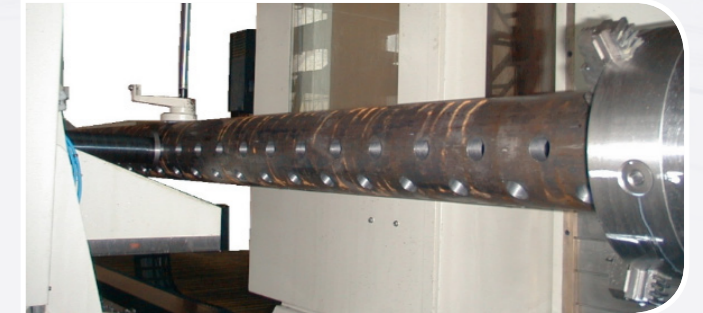
Machine with a simplified control system, designed for machining rubber printing shafts. The lathe is equipped with "Power grip" system for quick tool changing.



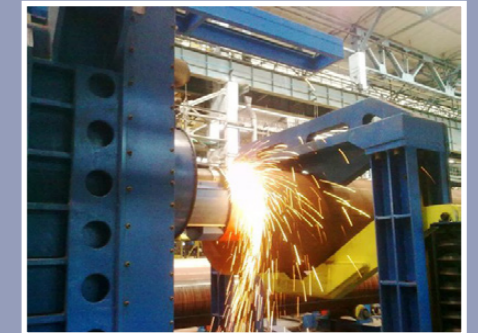
Deep drilling machine TUR FDD 100 x 6000. Range of drilling length is 1.200-6.000 and the diameter 20-100 mm



Production line for high efficient pipe drilling. The machine consists of lathe and loading/unloading station.



Production line for grinding of welded pipes



TUR RMN 240 - milling machine for railways switches



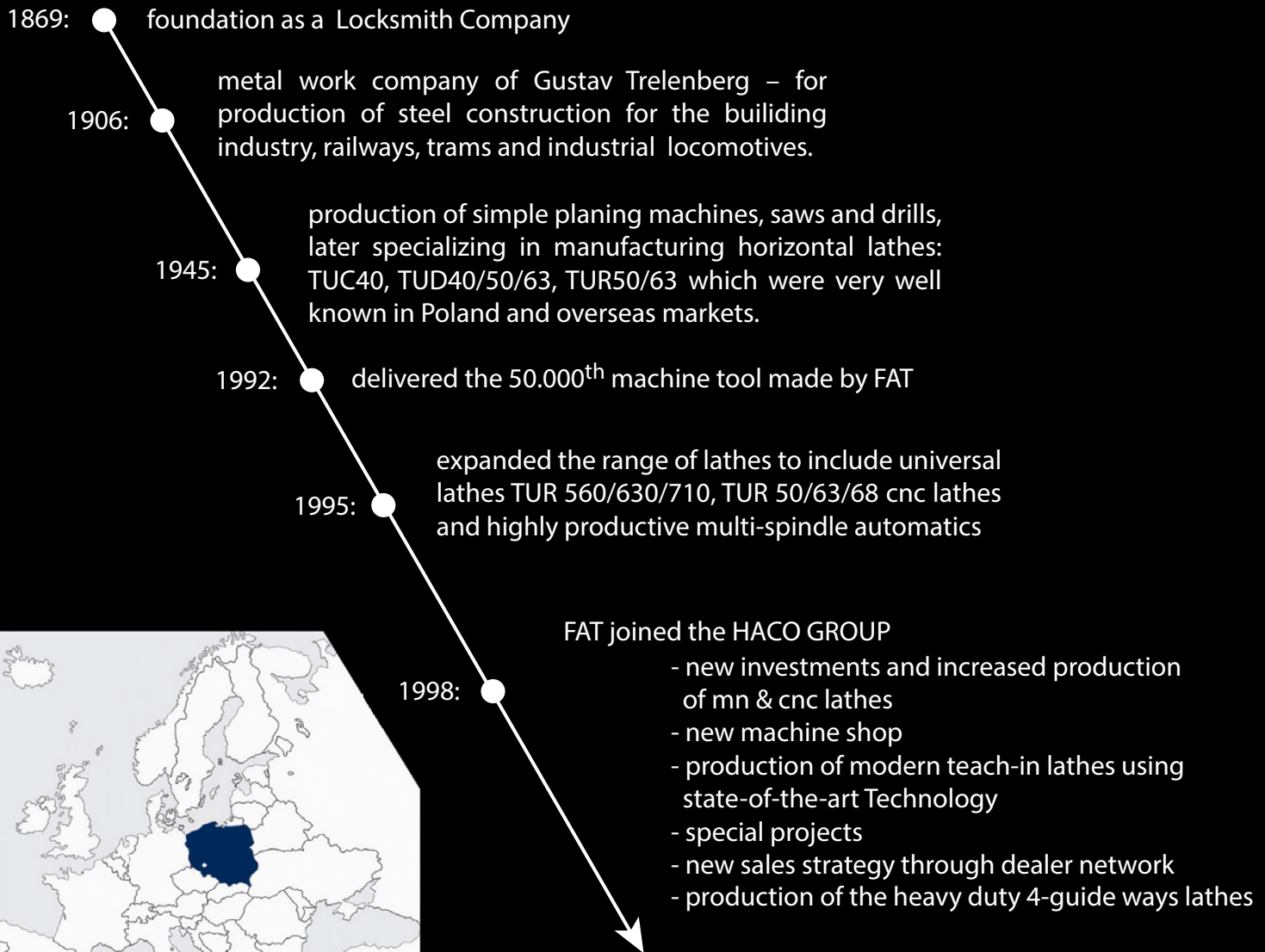
Turning-boring machine designed based on TUR MN



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.

Together, let's make creative imagination our only limitation!



for impressive performances

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