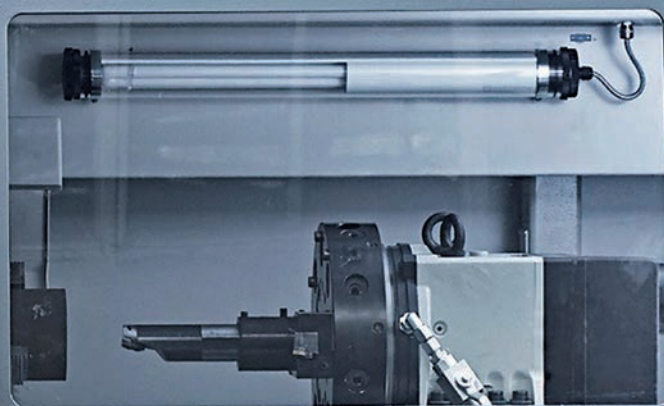




TUR 560/630/710 MN

POWER...PRECISION...PERFORMANCE!



HACO FAT TUR MN



HACO

FAT

for impressive
performances



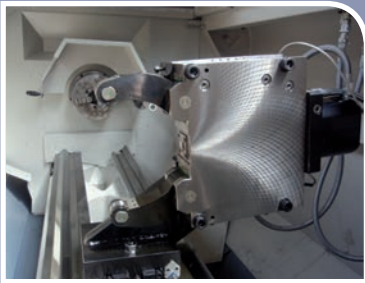
TUR 560/630/710 MN SERIES LATHES

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!

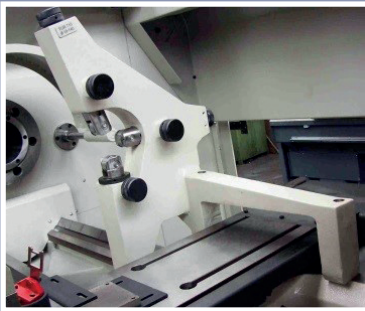
Lathe:

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.

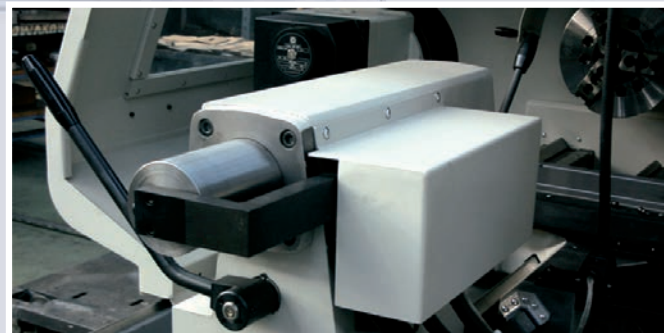
The high level of standard equipment makes the TUR MN lathe a powerful tool which will increase capacity of your work shop from the first day of operation! A large range of easy to install options will fulfil any special requirements.



Wide range of self centering hydraulic steady rests



Follow rest

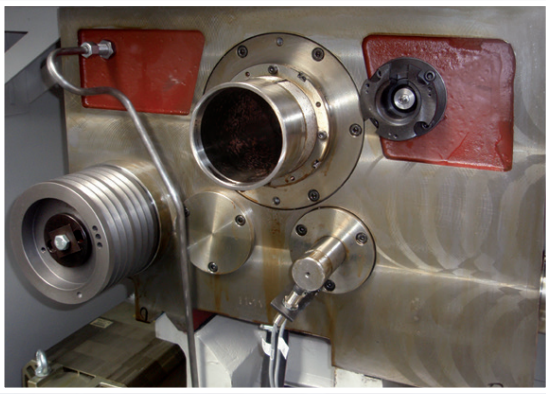


Hydraulic tailstock as an option. Quill diameter 100mm and specially extended neck. Thanks to this solution there is easy access for machining close to the tailstock's centre and high rigidity of total construction.



Fanuc or Fagor controller as an option

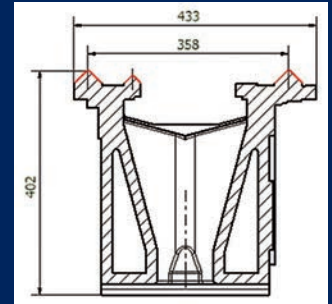




The heavy duty headstock is actually located on the two V's of the induction hardened and ground bed surface, hand scraped to ensure correct alignment and the best possible fit.



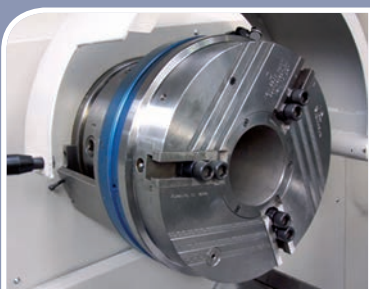
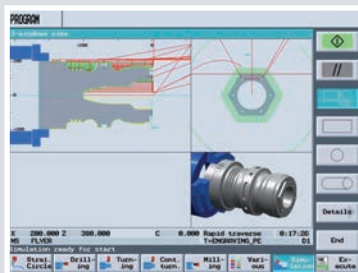
Special 3-V design of machine bed with its deep induction hardened and ground guide ways provides exceptional rigidity and stability on all lathes. All bed lengths are made as one mono-block casting.



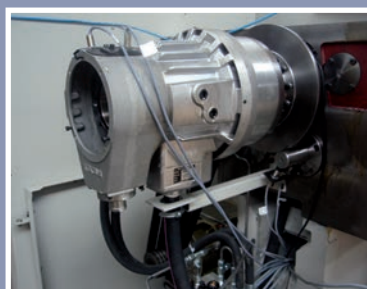
Surprisingly easy programming! TUR MN with Siemens 840D SL allows you to work manually, semi-automatic or full CNC. The user friendly Siemens Shop Turn Conversational Programming System will make your work efficient and enjoyable.

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



Pneumatic chuck



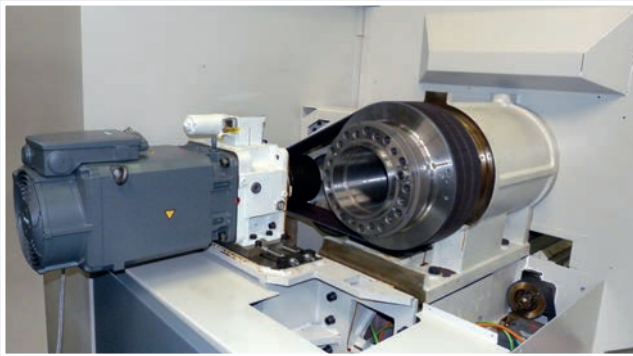
Actuating cylinder for hydraulic chuck



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!



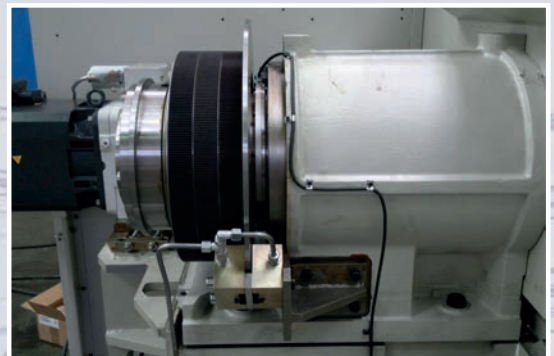
Direct spindle drive with automatic, programmable planetary gearbox.



Second spindle nose with complete interlocked covers.



TUR PMN 630 equipped with bar feeder

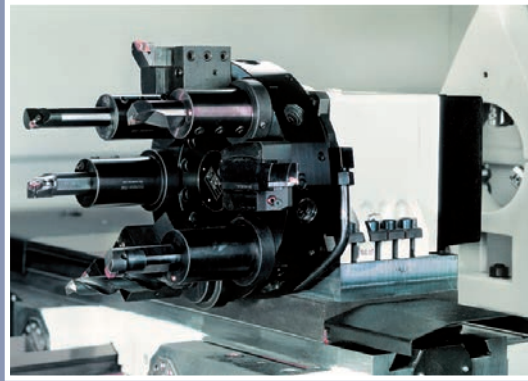


Spindle brake

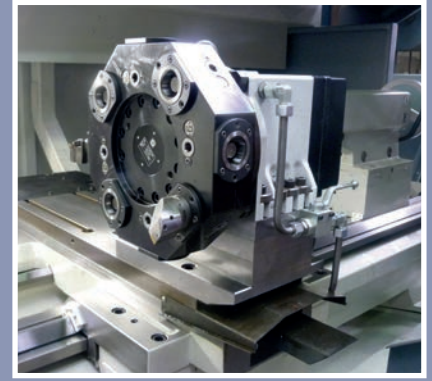
MANY DIFFERENT TOOLING SYSTEMS:



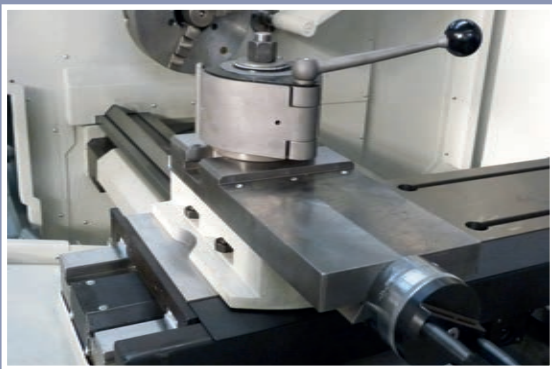
▲ Combination of 2 Sauter horizontal head turrets



▲ Sauter disc turret for static tools



▲ Tool turret with Capto seats



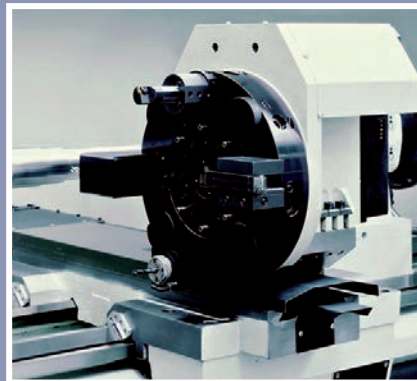
▲ Manual upper cross-slide



▲ Installation of whirling unit



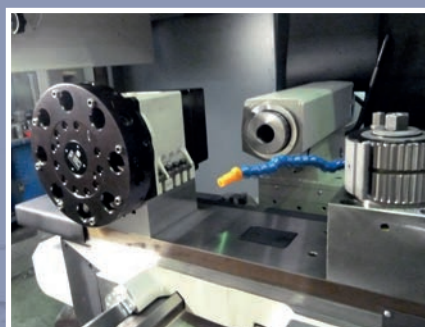
▲ Boring bar attachment mounted on cross-slide T slots



▼ Sauter 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



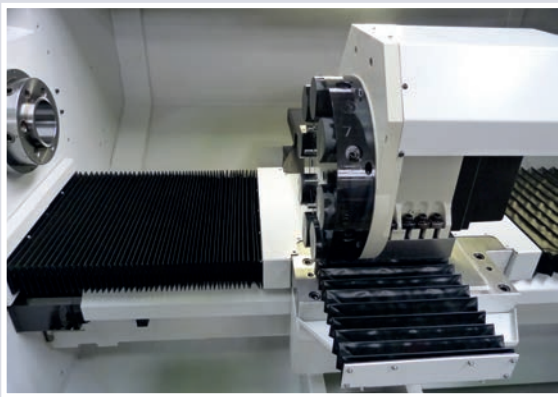
▲ WTO tooling system for turning, drilling and milling operation



▲ Multifix- turret combination



▲ Parat turret optionally with Capto seats



Z and X guideways covers



Oil mist collector

STANDARD EQUIPMENT:

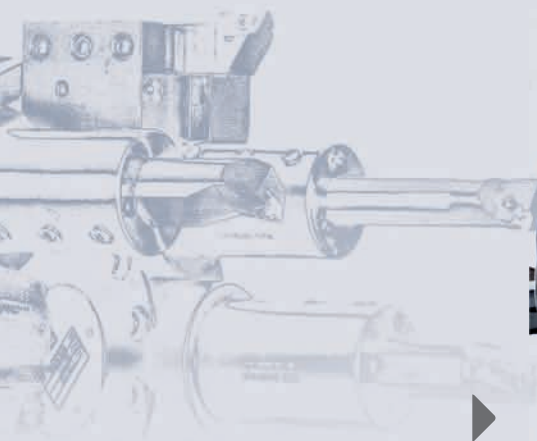
- Siemens CNC System: Sinumerik 840D SL
- Quick change toolpost type Multifix Size C (without tool holders and sleeves)
- Complete coolant system
- Hydraulic aggregate (option for P machine)
- Rotating operator panel
- Come-along tailstock system – quick coupling between tailstock and cross slide
- Electrical 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



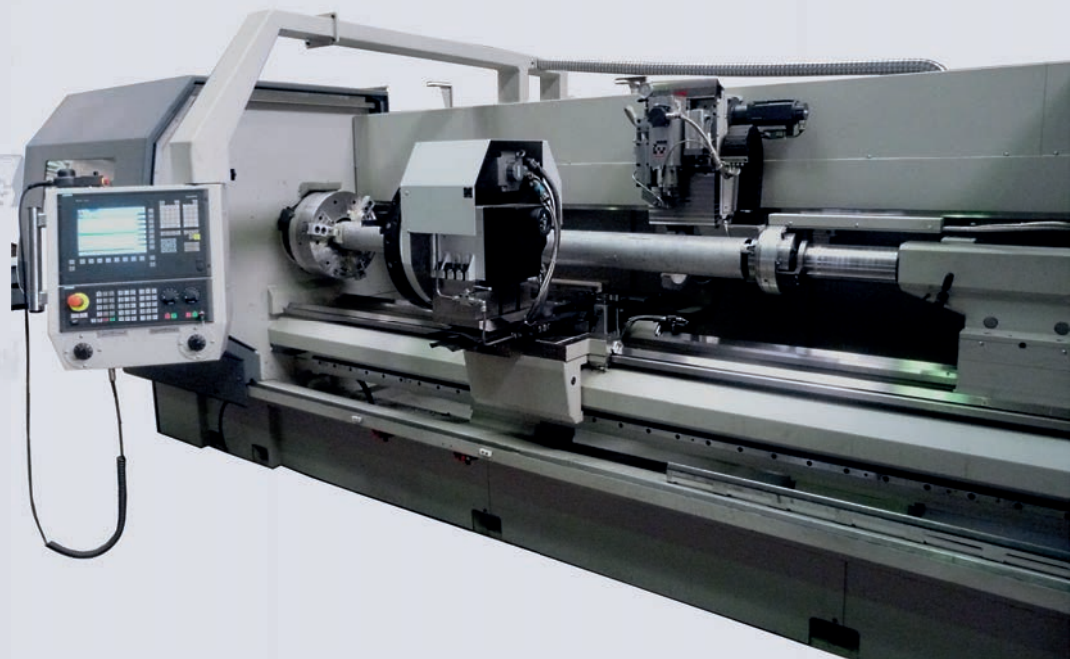
Additional cover of tailstock area



Additional control panel with hand-wheels installed on support



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



TECHNICAL DATA

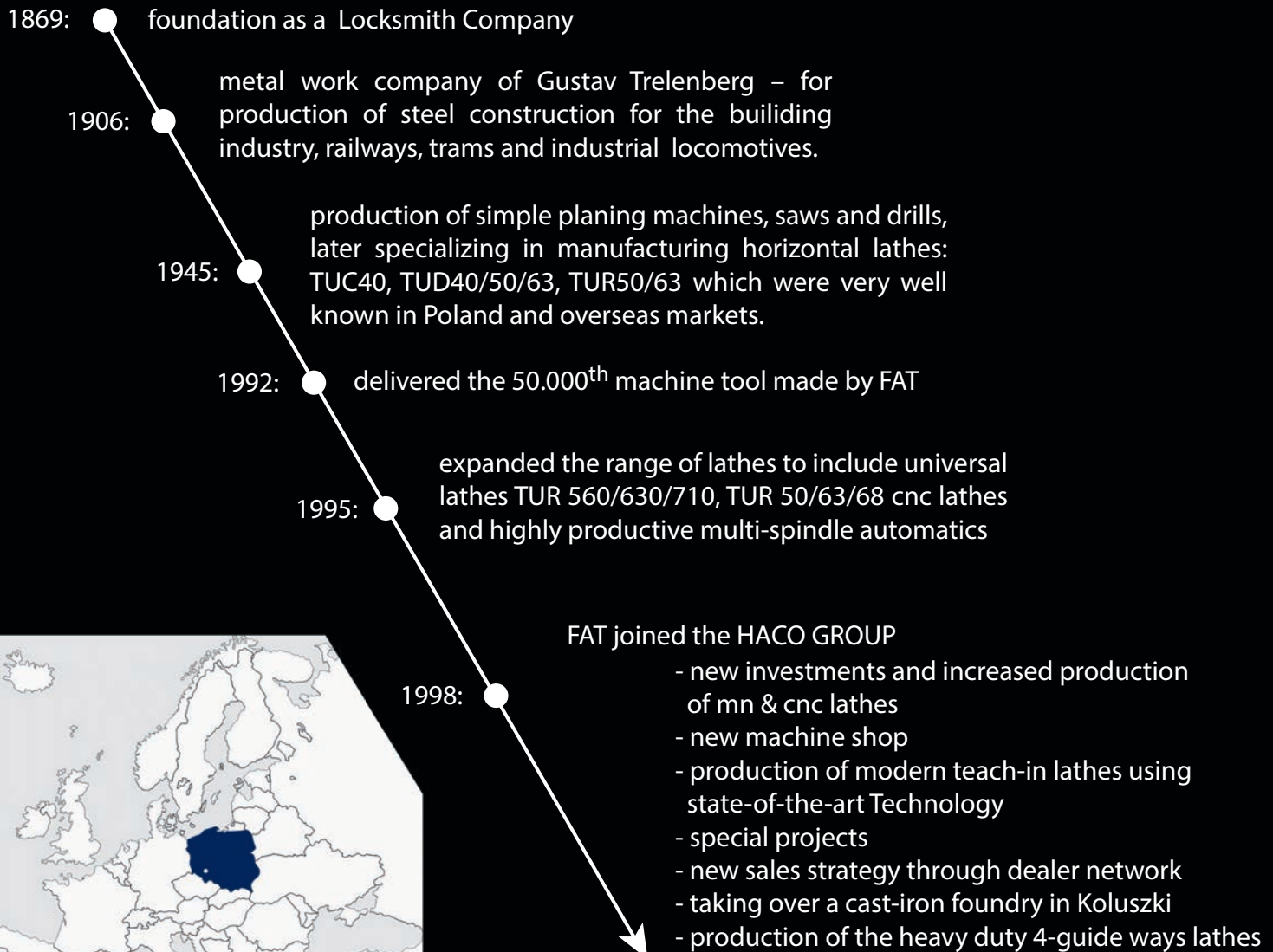
TUR MN		MN 560	MN 630	MN 630 A	MN 710	MN 710 A
				MN 630 P		MN 710 P
CAPACITY						
Distance between centers	mm	1000 - 2000 – 3000 – 4000 – 5000 – 6000				
Swing over bed	mm	560	630	630	710	710
Swing over saddle	mm	300	370	370	450	450
Max. Weight between centers	kg	2000	2000	2000	2000	2000
Max. Weight in chuck only	kg	600	600	600	600	600
HEADSTOCK						
Top spindle speed ranges	rpm	2 - 2500		2 - 1800	2 - 2500	2 - 1800
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	8	8	8	8
Rapid travel X-axis	m/min	8	8	8	8	8
QC Toolpost Type Multifix	Size	C				
TAILSTOCK						
Quill diameter	mm	100	100	100	100	100
Quill taper	MT	5	5	5	5	5
Quill stroke	mm	200	200	200	200	200
GENERAL						
Width of bed	mm	433	433	433	433	433
Total length of machine (1000/2000/3000/4000/5000/6000)		3200 / 4200 / 5200 / 6200 / 7200 / 8200				
Width of machine	mm	2500	2500	2500	2500	2500
Height of machine	mm	2100	2100	2100	2100	2100
WEIGHT OF MACHINE						
1.000 mm	kg	4900	5100	5100	5300	5300
2.000 mm	kg	5700	5900	5900	6100	6100
3.000 mm	kg	6500	6700	6700	6900	6900
6.000 mm	kg	8900	9100	9100	9300	9300

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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