TUR SMN 630/710

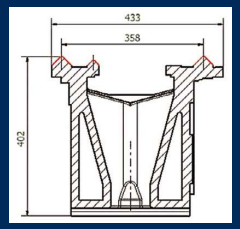
FAT lathes main features include exceptional structural stability and precision machining. With many years of experience in the production of machine tools, innovative solutions and attention to detail. The TUR SMN is true example of this with its durability and high precision. During assembly we guarantee high quality machines with high precision. Thanks to the perfect combination of high performance and affordability, our products are the most advantageous economic solution for your company.

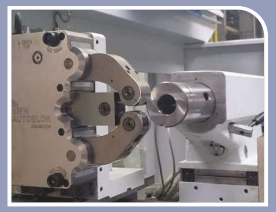
The TUR SMN 630/710 lathes are precise and of the highest quality that are made in Poland and all components used in our machines come from our reputable suppliers. Standard equipment makes the TURSMN lathes an advanced machine that increases efficiency in production from the very first day of use.

The standard equipment is extensive and makes the TUR SMN lathe an advanced work tool that increases the efficiency of your production from the very first day of use. The very large number of additional options that can be used allows special requirements to be met.

Chuck cover

The special 3-V design of the bed with deeply hardened and ground guides ensures stiffness and stability. All bed lenghts are made as one mo-no-block casting.





Wide range of self centering hydraulic steady restss

Follow rest

Surprisingly easy machine programming.
TUR SMN lathes with Siemens control Sinumerik One allows you to work in the mode manual, semi-automatic and full CNC. Operator-friendly control system ensures comfortable and effective work.

Main control features:

- easy programming with graphical representation that does not require knowledge of DIN / ISO
- very short programming time
- clear overview of all steps machining process
- simple tool management
- large selection of ready cycles
- machining and measuring

Steady rests

Fanuc or Fagor controller as an option

Pneumatic chuck

Headstock with full contouring C axis and actuating cylinder for hydraulic chuck

Hydraulic chuck in cooperation with robot

TUR SMN 630/710 P

The TURSMN 630/710 P has been designed for processing pipes due the large spindle bore the process is exceptionally simple. The standard bore available is Ø165mm and an optional spindle bore of Ø190 mm, giving manufacturers more options.

Direct spindle drive with automatic, programmable planetary gearbox.

Second spindle nose with complete interlocked covers

TUR MN 630 P equipped with bar feeder

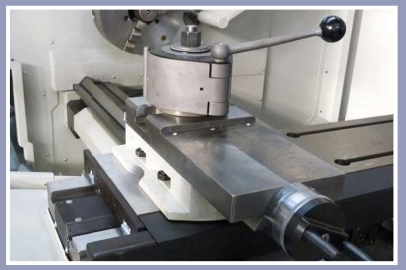
Special feeder for rotating bar

VARIOUS TOOLING SYSTEMS:

Combination of 2 horizontal head turrets

Disc turret for static tools

Tool turret with Capto seats



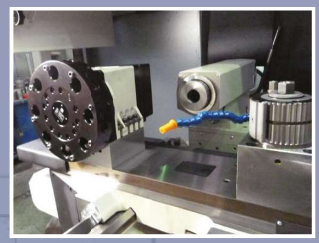
Manual upper cross-slide with Multifix C

Installation of whirling unit

Boring bar attachment mounted on cross-slide T slots

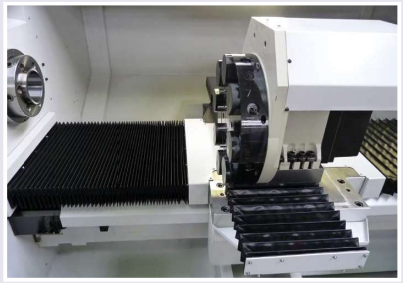
Turret for driven tools with options for C-axis spindle positioning:
- driven by main motor in combination with hydraulic brake and spindle encoder
- full contouring C-axis driven directly by separate servo motor

WTO tooling system for turning, drilling and milling operation



Multifix- turret combination

Parat turret optionally with Capto seats



Z and X axis guideways bellows covers

Chip pan at the front of the machine

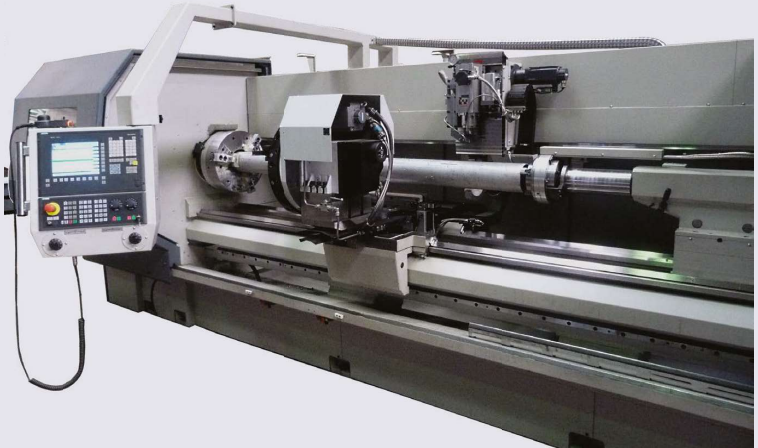
Additional cover of tailstock area

STANDARD EQUIPMENT:

- Siemens Sinumerik One
- Tool post MULTIFIX C (without tool holders)
- Coolant system
- Hydraulic aggregate (option for machines in P version)
- Rotary operator panel on sliding arm
- Easy connection of the tailstock and support thanks to the „come-along" system
- Absolute encoders of X and Z axis motors
- Fixed rear wall
- Front doors with interlock
- Handwheels for manual operation with „click" position
- Automatic programmable gearbox
- USB port
- One-year Siemens service contract
- Central lubrication system

Additional control panel with hand-wheels installed on support

Third Hand wheel (MPG mini handheld unit) Siemens



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

TECHNICAL PARAMETERS: TUR SMN 630/630P/710//710P*					
TUR SMN		**SMN 630**	**SMN 630 P**	**SMN 710**	**SMN 710 P**
CAPACITY					
Distance between centers	mm	1.000 - 2.000 – 3.000 – 4.000 – 5.000 – 6.000			
Swing over bed	mm	630		710	
Swing over saddle	mm	370		450	
Max. weight of workpiece between chuck and tailstock (without steadies).	kg	2.000		2.000	
Max. Weight of workpiece in chuck only	kg	600		600	
HEADSTOCK					
Number of spindle ranges		2	2	2	2
Spindle speed ranges	rpm	I: 2 - 560, II: 200 - 2.500	I: 2 - 430, II: 200 - 1.850	I: 2 - 560, II: 200 - 2.500	I: 2 - 430, II: 200 - 1.850
Spindle nose		D 1-11 DIN 55029	2 x A2-11/15 DIN 55026	D 1-11 DIN 55029	2 x A2-11/15 DIN 55026
Internal taper of the spindle	mm	150	1:20	150	1:20
Spindle bore	mm	140	165 / 190	140	165 / 190
Main drive motor power	kW	22,5 (S1)	23 (S6)	22,5 (S1)	23 (S6)
Max. Turning torque	Nm	2.200	2.050	2.200	2.050
SUPORT					
Cross slide travel X-axis	mm	390		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			
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			
Width of machine	mm	2.500			
Height of machine	mm	2.100			
WEIGHT OF MACHINE					
1.000 mm	kg	5.100		5.300	
2.000 mm	kg	5.900		6.100	
3.000 mm	kg	6.700		6.900	
4.000 mm	kg	7.500		7.700	
5.000 mm	kg	8.300		8.500	
6.000 mm	kg	9.100		9.300	

* 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.