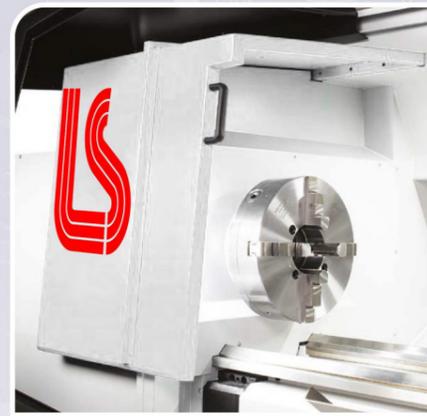


# LODGE & SHIPLEY POWERTURN 630/710

LODGE & SHIPLEY 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 POWERTURN 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 POWERTURN 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 POWERTURN lathes an advanced machine that increases efficiency in production from the very first day of use.

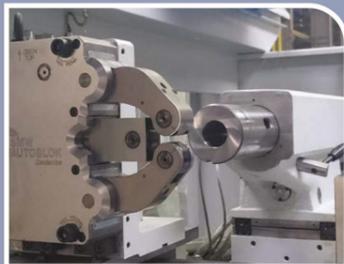
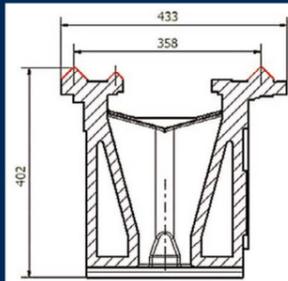
The standard equipment is extensive and makes the POWERTURN lathe an advanced work tool that increases the efficiency of your production from the very first day of use. The very large number of additional options that can be used allows special requirements to be met.



Chuck cover



The special 3-V design of the bed with deeply hardened and ground guides ensures stiffness and stability. All bed lengths are made as one mono-block casting.



Wide range of self centering hydraulic steady restss



Follow rest



Surprisingly easy machine programming. POWERTURN 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

# LODGE & SHIPLEY POWERTURN 630/710 P

The POWERTURN 630/710 P has been designed for processing pipes due the large spindle bore the process is exceptionally simple. The standard bore available is  $\varnothing 165$  mm and an optional spindle bore of  $\varnothing 190$  mm, giving manufactures more options.



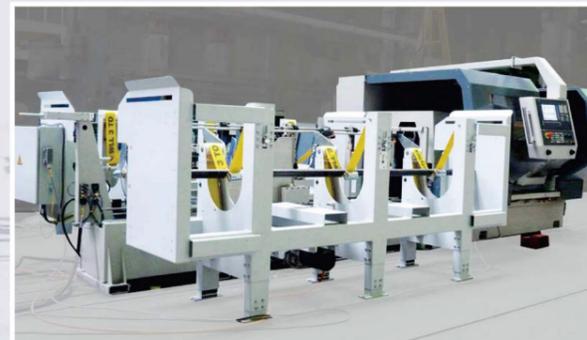
Direct spindle drive with automatic, programmable planetary gearbox.



Second spindle nose with complete interlocked covers



TUR MN 630 P equipped with bar feeder



Special feeder for rotating bar

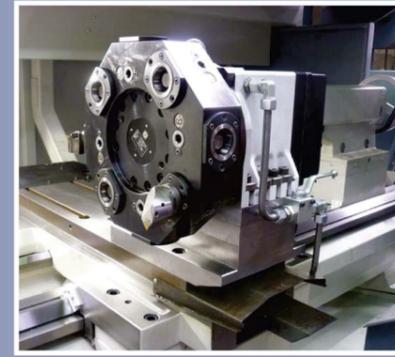
## VARIOUS TOOLING SYSTEMS:



Combination of 2 horizontal head turrets



Disc turret or static tools



Tool turret with Capto seats



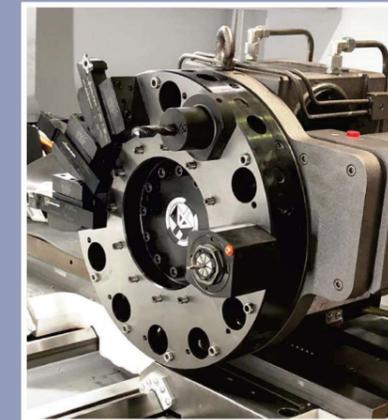
Manual upper cross-slide with Multifix C



Installation of whirling unit



Boring bar attachment mounted on cross-slide T slots

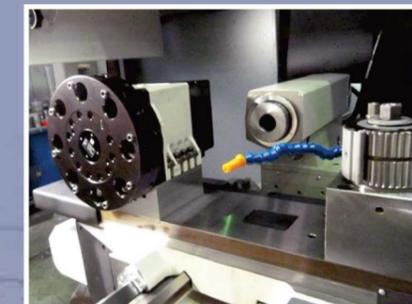


Turret for driven tools with options for C-axis spindle positioning:

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



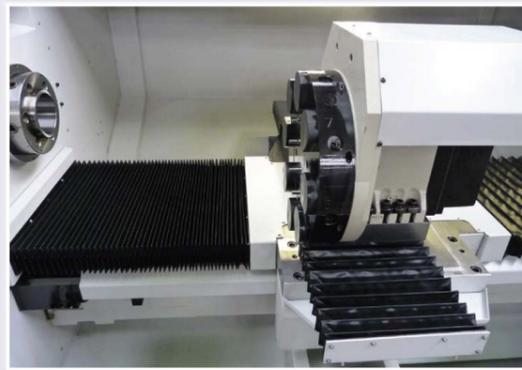
WTO tooling system for turning, drilling and milling operation



Multifix-turret combination



Parat turret optionally with Capto seats



Z and X axis guideways bellows covers

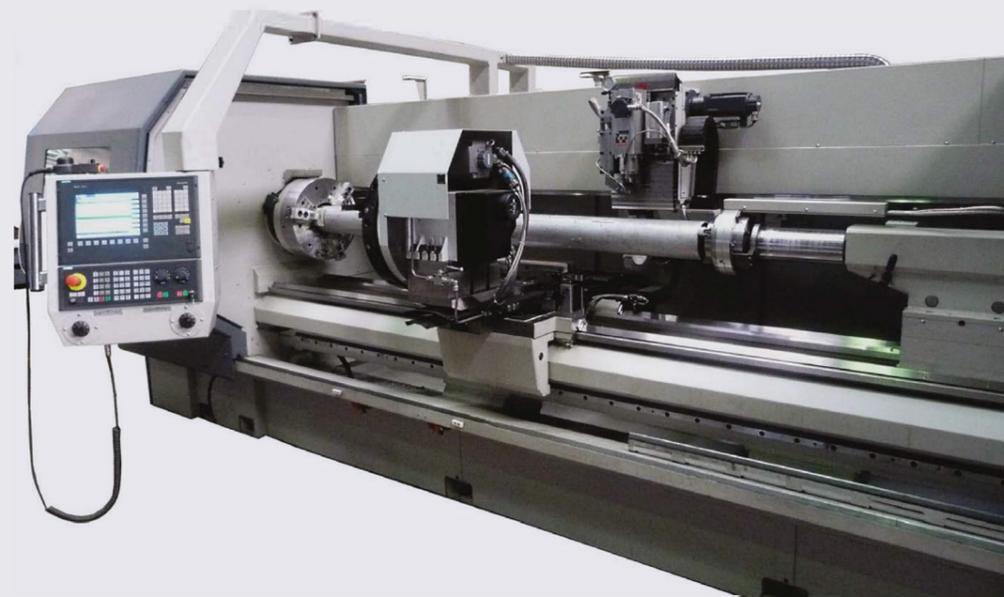


Chip pan at the front of the machine



Additional cover of tailstock area

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



Additional control panel with hand-wheels installed on support



Third Hand wheel (MPG mini handheld unit) Siemens



**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

**TECHNICAL PRAMETERS: POWERTURN 630/630P/710/710P\***

POWERTURN		630	630 P	710	710 P
<b>CAPACITY</b>					
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	
<b>HEADSTOCK</b>					
Number of spindle ranges		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	2xA2-11/15 DIN 55026	D 1-11 DIN 55029	2xA2-11/15 DIN 55026
Internal taper of the spindle	mm	150		1:20	
Spindle bore	mm	140		165 / 190	
Main drive motor power	kW	22,5 (S1)		23 (S6)	
Max. Turning torque	Nm	2.200		2.050	
<b>SUPPORT</b>					
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.b.c.)	mm	40			
Bal screw Z-axis (4m b.c.)	mm	63			
Ball screw X-axis	mm	32			
QC Toolpost Type Multifix	Size	C			
<b>TAILSTOCK</b>					
Quill diameter	mm	100			
Quill taper	MT	5			
Quill stroke	mm	200			
<b>GENERAL</b>					
Width of bed	mm	433			
Width of machine	mm	2.500			
Height of machine	mm	2.100			
<b>WEIGHT OF MACHINE</b>					
1.000mm	kg	5.100		5.300	
2.000mm	kg	5.900		6.100	
3.000mm	kg	6.700		6.900	
4.000mm	kg	7.500		7.700	
5.000mm	kg	8.300		8.500	
6.000mm	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.