



# SUPERTURN HD FLAT BED CNC LATHES

**AJST660 - 1120**



Machine Tool Exporters to the World since 1940

# SUPERTURN HD FLAT BED CNC LATHES

**AJST660 - 1120**

The New AJAX SUPERTURN HD range is now heavier and stronger with the new Fanuc Oi TF control. These machines can be used as a manual lathe by using the electronic handwheels, the control is used as a simple DRO measuring system. For one-offs and small batch production the SUPERTURN HD can be programmed, using the flexible electronic turning cycles, its quick, its convenient and you do not have to be CNC trained to use the electronic cycles. You can produce tapers, radii, grooving, multi point profiles and screwcutting by answering simple questions direct from the Fanuc screen. These electronic cycles can then be linked together to give a complete electronic programme.

For complicated shapes and batch production, full ISO programming on the Fanuc Oi Turn Mate control is possible.

The AJAX SUPERTURN HD machines include fully enclosed guarding, meeting CE regulations, automatic 4 way indexing toolpost, automatic speed range change and new Fanuc touch screen control and monitor on sliding pendant. Machine programmes can be up and downloaded through the RS232 port or saved directly to the PMCIA card.



## AJST1120

### FEATURES INCLUDE:

- Fanuc Touch screen control
- Solid cast construction
- High power stock removal
- 8 station automatic turret
- Twin handwheels
- Hardened & ground solid ways.

### OPTIONS:

- 3 & 4 Jaw chucks
- 8 Station turrets
- Fixed & travelling steadies
- Live centres
- Face plates
- Power chuck & tail stock
- Live tooling & C Axis

### STANDARD ACCESSORIES

- Touch screen Fanuc Turn Mate control
- Interlocked guarding & chip collection system
- Coolant equipment
- Automatic lubrication of bed ways
- Electronic hand-wheels or X & Z Axes
- Feed override control
- Digital Fanuc AC spindle Motor
- Digital Fanuc AC Feed drives & motors
- High power lighting
- Fixed centres & reducing bush
- 4 station turret
- Instruction Manual
- Hardened bed to 400-450 HB

Model	AJST660	AJST760	AJST840	AJST1120
Centre height (mm)	330	380	420	560
Swing over bed (mm)	660	760	840	1120
Swing over cross slide (mm)	400	500	580	760
Distance between centres in M	1/1.5/2/3/4	1/1.5/2/3/4	1/1.5/2/3/4	1/1.5/2/3/4/5/6
Bed width in mm	420	420	420	610
Main spindle bore (mm)	105	105	105	152
Spindle nose	A2-8	A2-8	A2-8	A2-11
Spindle taper	6	6	6	6
Number of ranges	4	4	4	4
Variable speed (rpm) with CSS	20-1,300	20-1,300	20-1,300	6-500
Working feed rates mm/min	0-5000	0-5000	0-5000	0-3000
Rapid feeds M/min	5	5	5	5
Tailstock diameter	105	105	105	125
Tailstock quill travel	180	180	180	300
Tailstock quill taper	6	6	6	6
Main motor power in kW	15	15	15	22
Pump motor power in kW	0.75	0.75	0.75	0.75
Coolant Flow rate Lt/min	50	50	50	50

## TECHNICAL SPECIFICATIONS



**AJST760**

### **Turning has become Superturning.**

Centre lathe turning has progressed at an impressive rate since the conception of electronics, driving axis and spindles, and computer driven programming.

The AJAX Superturn HD range of machines, combines all the virtues of conventional turning, electronic cycle turning and full CNC turning all in ONE machine.

The AJAX Superturn HD machines can be used as a manual lathe by using the electronic handwheels and axis joy stick, the control is used as a simple DRO measuring system. For the 1 offs and small batch production the Superturn can be programmed, using the flexible electronic turning cycles, its quick, its convenient and you do not have to be CNC trained to use the electronic cycles. You can produce tapers, radii, grooving, multi point profiles and screwcutting by answering simple questions direct from the Fanuc screen. These electronic cycles can then be linked together to give a complete electronic programme.

For complicated shapes and batch production, full ISO programming on the Fanuc Oi Turnmate i control is possible.

The AJAX Superturn HD machines include fully enclosed guarding, meeting CE regulations, automatic 4 way indexing toolpost, automatic speed range change and new Fanuc touch screen control and monitor on sliding pendant.

Machine programmes can be up and downloaded through the RS232 port or saved directly to the PMCIA card.

The range starts at 500mm centre height to 560mm centre height, with bed lengths varying from 1000mm to 6000mm, spindle speeds vary for sizes of machines but all have CSS fitted as standard. Axis and spindle drives are all Fanuc to give reliability and longevity of service.

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