

Work speed and versatility in up to 3 axis

The new STS CNC lathe series is versatile, fast and accurate, developed under the robust quality standards of the JAP premium technology. The new JAP beds provides increased rigidity improving the dimensional and thermal stability of the machine and reduces the level of vibration during the machining process.

The STS series has a headstock equipped with a belt-drive servomotor and a high quality and low run-out main spindle, providing a lathe with high spindle speed, reduced noise level and high quality surface finish capability. The JAP STS are lathes with up to 3 axes that provide extraordinary versatility in the world of machine tools.



STANDARD EQUIPMENT

- Fanuc Oi-TF Control
- Dynamic graphics / trajectory
- Profile Editor
- Electronic handwheel for X and Z axes
- Increased width and stiffness of the bed
- Direct drive headstock with servomotor
- High precision main spindle
- Reducing bush of main shaft and dead centers
- 8-position automatic turret
- Automatic lubrication of the guideways
- Refrigeration equipment
- Cast iron pedestals
- Precision levellers
- LED Work light
- Instruction manual
- Verification standard DIN 8605
- CE Standard

OPTIONAL EXTRAS

- Control Fagor 8055i, Siemens 828D, Fagor 8058 or Fagor 8060
- C-axis*
- Chucks with 3 and 4 jaws
- Rear chuck
- Hydraulic power chuck
- Hydraulic collect chuck
- Hydraulic tailstock
- Fixed Steady Rest
- Large capacity fixed steady rest
- Follow Rest
- Livetool 12 positions
- Live center
- Chip conveyor
- Electric transformer
- Higher pressure cooling system
- Electric panel refrigeration
- Anti-vibration kit
- Remote jog unit
- Tool Presetter
- Bar feeder

Note: *Not available for STS 200

Working capacity			STS-200		STS-250				STS-350		
Distance between centres	mm / in		1000/40	1500/60	1000/40	1500/60	2000/80	3000/120	1000/40	2000/80	3000/120
Bed width	mm / in		300 / 11 3/4		350 / 13 3/4				425 / 16 3/4		
Centre height	mm / in		200 / 7 3/4		250 / 9 3/4				350 / 13 3/4		
Ø max. swing over bed	mm / in		400 / 15 3/4		500 / 19 1/2				700 / 27 1/2		
Ø max. swing over carriage	mm / in		360 / 14		450 / 17 1/2				600 / 23 1/2		
Ø max. over cross slide	mm / in		200 / 7 3/4		290 / 11 1/4				400 / 15 3/4		
Cross slide travel	mm / in		235 / 9		310 / 12				400 / 15 3/4		
Length inal carriage travel	mm / in		850	1350	850	1350	1850	2850	850	1850	2850
Headstock											
Main motor power	Fagor		7,5		15				17		
	Fanuc	kW	11		15				15		
	Siemens		7		9				11		
Headstock main spindle bore <i>Valid for all centre distances</i>	mm / in		42 / 1 1/2		65 / 2 1/2				80 / 3	105 / 4	155 / 6
Main spindle nose	ASA		A2 - 5		A2 - 6				A2 - 8		A2-11
Main spindle nose taper	MT		4		5				5		5
Speed ranges	r.p.m.		0-4000		0-3000				0-2500	0-2500	0-1000
X-axis, Z-axis											
Working feeds Z	Fagor	m/min	0 - 10		0 - 10				0 - 8.5		
	Fanuc	m/min	0 - 10		0 - 10				0 - 10		
	Siemens	m/min	0 - 7		0 - 7				0 - 5		
Working feeds X	Fagor	m/min	0 - 12		0 - 12				0 - 6		
	Fanuc	m/min	0 - 12		0 - 12				0 - 12		
	Siemens	m/min	0 - 12		0 - 12				0 - 6		
Rapid traverse Z	Fagor	m/min	12.5		12.5				10		
	Fanuc	m/min	12.5		12.5				12.5		
	Siemens	m/min	9		9				6.5		
Rapid traverse X	Fagor	m/min	15		15				7.5		
	Fanuc	m/min	15		15				15		
	Siemens	m/min	15		15				7.5		
Z - Ball screw, Ø/pitch	mm			40 / 10				50 / 10			
X - Ball screw, Ø/pitch	mm			20 / 5				32 / 5			
Tailstock											
Tailstock barrel Ø	mm / in		68 / 2 1/2		95 / 3 3/4				106 / 4		
Tailstock barrel travel	mm / in		200 / 7 3/4		220 / 8 1/2				225 / 8 3/4		
Tailstock Morse taper	MT		4		5				6		
Turret											
Stations of standard turret			8				8				
Tool shank	mm		25x25				25x25				
Ø Boring bar	mm		32				40				
Dimensions and Weight											
Length	mm		2810	3300	2800	3325	3940	4750	3290	4290	5290
Width	mm		1260		1350		1700		2170		
Height	mm		1890		1810		2110		2090		
Weight	kg		2230	2340	2250	2475	2970	3640	5460	5760	6560
Options											
Fixed steady rest Ø	mm		10 - 140		10 - 180				90 - 300		
Large capacity fixed steady rest Ø	mm		140 - 250		180 - 400				300 - 530		
Mobile Steady Rest Ø	mm		10 - 90		10 - 130				70 - 290		
Dimensions and Weight with packaging											
Length	mm		3010	3500	3000	3525	4140	4950	3490	4490	5490
Width	mm		1360		1450		1800		2270		
Height	mm		2090		2010		2310		2290		
Weight	kg		2530	2640	2650	2875	3370	4040	5860	6160	6960

Note: The data is merely informative and subject to change according to the needs of the company.