

Large roughing CNC lathes with up to 4 axes

The STH series of CNC lathes marks a milestone among flatbed numerical control machines. STH are parallel lathes with up to 4 axes that have a reputation for versatility within their segment without loss of precision and quality of surface finish that have made STH a reference in the world of machine tools.

The headstock of the STH series is equipped with a 2-step gear box providing a high output in the roughing operation. In addition, the high quality and reduced run-out main spindle of the JAP machines, makes the STH the best friend of the most complex works.

STH parallel lathes have been designed with our most demanding customers in mind, using the highest quality components combined with the most innovative technology, the result of more than 70 years of experience.

Models with up to 4 CNC axes, 1050 mm turning on over bed and 5000 mm between centres.



STANDARD EQUIPMENT

- Fanuc Oi-TF
- Dynamic graphics / trajectory
- Profile Editor
- Screen 15"
- High precision main spindle
- Reducing bush of main shaft and dead centres
- Servomotor
- Gearbox 2 ranges
- 8-position automatic turret with 4 toolholders
- Remote jog unit
- Refrigeration equipment
- Cast iron pedestals
- Precision Levellers
- LED Work light
- Status signal light
- Instruction manual
- Verification standard DIN 8605
- CE Standard

OPTIONAL EXTRAS

- Control Fagor 8060T, Siemens 828D
- Boring bar up to 360 mm
- High accuracy C-axis
- Y-axis
- Automatic and live tool 8 or 12 positions VDI or BMT
- Chucks with 3 and 4 jaws
- Hydraulic chuck and tailstock
- Fixed steady rests of various capacities
- Follow Rest
- Hydraulic Steady Rest
- Electric transformer
- Rear chuck
- Support for boring bars
- Live center
- Higher pressure coolant pump
- Chip conveyor
- Linear capacitance scales
- Anti-vibration kit
- Tool Presetter
- Electric panel cooler

> STH

Technical data sheet

Working capacity

STH-400

STH-500

Distance between centres	mm / in	1000 / 39 1/2	2000 / 78 3/4 3/4	3000 / 118	4000 / 157 1/2	5000 / 197	2000 / 78 3/4	3000 / 118	4000 / 157 1/2	5000 / 197
Bed width	mm / in	425 / 16 3/4					500 / 20			
Centre height	mm / in	400 / 15 3/4					500 / 19 3/4			
Ø max. swing over bed	mm / in	805 / 31 3/4					1010 / 39 3/4			
Ø max. swing over carriage	mm / in	720 / 28 1/4					900 / 35 1/4			
Ø max. over cross slide	mm / in	510 / 20 1/4					710 / 27 3/4			
Cross slide travel	mm / in	400 / 15 3/4					400 / 15 3/4			
Length inal carriage travel	mm / in	1000 / 39 1/2	2000 / 78 3/4	3000 / 118	4000 / 157 1/2	5000 / 197	2000 / 78 3/4	3000 / 118	4000 / 157 1/2	5000 / 197

Headstock

Main motor power	kW	17					22			
Headstock main spindle bore <i>Valid for all centre distances</i>	mm / in	105 / 4	155 / 6			230 / 9	130 / 5	155 / 6	230 / 9	310 / 12 1/4 3/4
Main spindle nose	ASA	A2-8	A2-11			A2-15	A2-11	A2-11	A2-15	A2-20
Main spindle nose taper	MT	5	5			6	6	5	6	6
Speed ranges	Range I	r.p.m.	0-424			0-217	0-260	0-240	0-203	0-149
	Range II		424-1700			217-750	260-1400	240-1000	203-750	149-560

X-axis, Z-axis

Working feeds Z	m/min	0 - 8.5								
Working feeds X	m/min	0 - 6								
Rapid traverse Z	m/min	10								
Rapid traverse X	m/min	7.5								
Z - Ball screw, Ø/pitch	mm	50/10								
X - Ball screw, Ø/pitch	mm	32/5								

Tailstock

Tailstock barrel Ø	mm / in	96 / 3 3/4					120 / 4 1/2			
Tailstock barrel travel	mm / in	215 / 8 1/4					300 / 11 3/4			
Tailstock Morse taper	MT	6								

Turret

Stations of standard turret		8								
Tool shank	mm	32x32								
Ø Boring bar	mm	50								

Dimensions and Weight

Length	mm	3610	4610	5610	6610	7610	4610	5610	6610	7610
Width	mm	2170					2190			
Height	mm	2090					2315			
Weight	kg	5460	5760	6460	7560	9060	6400	7600	8800	10000

Options

Fixed steady rest Ø	mm	90 - 300					10 - 380			
Large capacity fixed steady rest Ø	mm	300 - 530					370 - 730			
Mobile Steady Rest Ø	mm	70 - 290					35 - 310			

Dimensions and Weight with packaging

Length (with transport cradle)	mm	4150	5150	6150	7150	8150	5150	6150	7150	8150
Width	mm	2270					2290			
Height	mm	2290					2515			
Weight	kg	5810	6160	7110	8060	9610	6800	8050	9300	10550

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