

JAP

CNC LATHES
High-Precision Technology



> STH

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.

MODELS: STH 400 > STH 500

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



STH-400

STH-500

Working capacity

Distance between centres	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	
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					935 / 36 3/4				
Ø max. over cross slide	mm / in	515 / 20 1/4					718 / 28 1/4				
Cross slide travel	mm / in	400 / 15 3/4					500 / 19 1/4				
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	
Main spindle nose	ASA/ CAM-LOCK	A2-8 / D1-8	A2-11 / --	A2-15 / --	A2-11 / --	A2-11 / --	A2-15 / --	A2-20 / --	
Main spindle nose taper	MT	5	5	6	5	5	6	6	
Speed ranges	r.p.m.	0-1700	0-1000	0-750	0-1400	0-1000	0-750	0-560	

X-axis, Z-axis

Working feeds Z	Fagor	m/min	0 - 8,5	
	Fanuc	m/min	0 - 5	
	Siemens	m/min	0 - 8,5	
Working feeds X	Fagor	m/min	0 - 6	
	Fanuc	m/min	0 - 4	
	Siemens	m/min	0 - 6	
Rapid traverse Z	Fagor	m/min	10	
	Fanuc	m/min	6,5	
	Siemens	m/min	10	
Rapid traverse X	Fagor	m/min	7,5	
	Fanuc	m/min	5	
	Siemens	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	3290	4290	5290	6290	7290	4600	5600	6600	7600	
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	mm	3490	4490	5490	6490	7490	4800	5800	6800	7800	
Width	mm	2270					2290				
Height	mm	2290					2515				
Weight	kg	5810	6160	7110	8060	9610	6800	8050	9300	10550	

Metosa Showroom: professionals at the service of professionals

In the METOSA GROUP facilities we have a large Showroom of 2,000 square meters where our Clients can go through the evolution of our lathes and see in detail the model that best suits their business needs. It will always be attended by qualified technical personnel who will be able to solve any doubt that could arise.



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presence
in 80 countries

+100
distributors
worldwide



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CE certificate for all
products manufactured
by Grupo Metosa.

JAP is a registered trademark of:

METOSA
GROUP

JAP



Maschinen Härtel GmbH & Co. KG

Telefon +49-212-64 544 81-0
E-Mail info@maschinen-haertel.de

Web www.maschinen-haertel.de

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