

▶ SH

MODELS SH 400 > SH 500

Large roughing CNC lathes with up to 4 axes.

The SH series of CNC lathes marks a milestone among flatbed numerical control machines. Parallel lathes with up to 4 axes that provide a record versatility within their segment without renouncing the precision and quality of finishes that have made Pinacho a reference in the world of machine tools.

SH 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 75 years of experience.

Models with up to 4 CNC axes, 1000 mm turning on over bed and 5000 mm between centers.



STANDARD EQUIPMENT

- Fagor 8055T Control
- Dynamic graphics / trajectory
- Profile editor
- Screen 11".
- 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 levelers
- Work light
- Status signal light
- Instruction manual
- Verification standard DIN 8605
- CE Standard

OPTIONAL EXTRAS

- Control Fanuc Oi-TF, Siemens 828D, Fagor 8058 or Fagor 8060
- Boring bar up to 310 mm
- 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
- Anti-vibration kit
- Tool presetter
- Electric panel cooler




TECHNICAL DATA SHEET

Working capacity

SH-400

SH-500

| | | 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 | |
|------------------------------|---------|-----------------|-----------------|--------------|------------------|---------------|-----------------|------------------|------------------|--------------|--|
| Center distance | mm / in | | | | | | | | | | |
| 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 | 800 / 31 1/4 | | | | | 1000 / 39 1/4 | | | | |
| Ø max. swing over carriage | mm / in | 720 / 28 1/4 | | | | | 900 / 35 1/2 | | | | |
| Ø max. over cross slide | mm / in | 510 / 20 1/4 | | | | | 710 / 28 1/4 | | | | |
| Cross slide travel | mm / in | 400 / 15 3/4 | | | | | 400 / 15 3/4 | | | | |
| Longitudinal carriage travel | mm / in | 1000/ 39 1/2 | 2000/ 78 3/4 | 3000/ 118 | 4000/ 157 1/2 | 5000 / 197 | 1980/ 77 3/4 | 2980/ 117 1/4 | 3980/ 156 1/2 | 4980/ 196 | |

Headstock

| | | 17 | | | | | 22 | | | |
|---|-------------------|-------------|------------|------------|------------|------------|------------|--------------|--|--|
| Main motor power | kW | 17 | | | | | 22 | | | |
| Headstock main spindle bore Valid for all centre distances | 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 | 6 | 5 | 6 | 6 | | |
| Speed ranges | Range I | 0-424 | 0-288 | 0-217 | 0-260 | 0-240 | 0-203 | 0-149 | | |
| | Range II | 424-1700 | 288-1000 | 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 | 106 / 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 | 40x40 |
| Ø Boring bar | mm | 50 | |

Dimensions and Weight

| | | 3610 | 4610 | 5610 | 6610 | 7610 | 4610 | 5610 | 6610 | 7610 | |
|--------|----|------|------|------|------|------|------|------|------|-------|--|
| Length | mm | | | | | | | | | | |
| 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 |
| Follow rest Ø | mm | 70 - 290 | 35 - 310 |

Dimensions and weight with packaging

| | | 4150 | 5150 | 6150 | 7150 | 8150 | 5150 | 6150 | 7150 | 8150 | |
|--------------------------------|----|------|------|------|------|------|------|------|------|-------|--|
| Length (with transport cradle) | mm | | | | | | | | | | |
| 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.