

▶ ST

MODELS ST 180 > ST 225 > ST 285 > ST 310

High precision flatbed CNC lathes.

The ST is Pinacho's most sophisticated numerical control lathe, with great rigidity and working precision. Developed with components of the highest quality and manufactured under strict and demanding control standards. ST parallel lathes incorporate the most advanced technology developed from experience provided by more than 70 years of history.

Our CNC flatbed lathes are silent, easy to use machines, with a headstock composed of a servo-motor and direct transmission to the main axis, providing a high speed of rotation and an excellent quality surface finish on the component.

The Pinacho ST are lathes with up to 3 axes that provide an 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
- Direct drive headstock with servomotor
- Reducing bush of main shaft and dead centers
- 8-position automatic turret with 4 toolholders
- Automatic lubrication of the guideways
- Refrigeration equipment
- Cast iron pedestals
- Precision Levellers
- Work light
- Instruction manual
- Verification standard DIN 8605
- CE Standard

OPTIONAL EXTRAS

- Control Fagor 8055T, Siemens 828D
- 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



| Working capacity | | ST-180 | | ST-225 | | ST-285 | | | | ST-310 | | | | |
|---|----------------|-----------------|---------|-----------------|---------|-----------------|---------|-------------|----------|-----------------|---------|--------------|----------|--|
| Center distance | mm/in | 750/30 | 1000/40 | 1000/40 | 1500/60 | 1000/40 | 1500/60 | 2000/80 | 3000/120 | 1000/40 | 1500/60 | 2000/80 | 3000/120 | |
| Bed width | mm/in | 250 / 10 | | 300 / 12 | | 350 / 14 | | | | 350 / 14 | | | | |
| Centre height | mm/in | 180 / 7 | | 225 / 9 | | 285 / 11 | | | | 310 / 12 | | | | |
| Ø max. swing over bed | mm/in | 360 / 14 | | 450 / 18 | | 570 / 22 1/2 | | | | 620 / 24 | | | | |
| Ø max. swing over carriage | mm/in | 300 / 12 | | 370 / 15 | | 510 / 20 | | | | 550 / 21 1/2 | | | | |
| Ø max. over cross slide | mm/in | 190 / 7 | | 260 / 10 | | 360 / 14 | | | | 410 / 16 | | | | |
| Cross slide travel | mm/in | 185 / 7 1/4 | | 235 / 9 1/4 | | 260 / 10 | | | | 310 / 12 | | | | |
| Longitudinal carriage travel | mm/in | 600/23 1/2 | 840/33 | 930/36 1/2 | 1450/57 | 850/33 | 1450/53 | 1850/72 1/2 | 2850/112 | 850/33 | 1450/53 | 1850/72 1/2 | 2850/112 | |
| Headstock | | | | | | | | | | | | | | |
| Main motor power | Fagor | kW | 7.5 | | 15 | | 17 | | | | 17 | | | |
| | Fanuc | kW | 11 | | 15 | | 15 | | | | 15 | | | |
| | Siemens | kW | 7 | | 9 | | 11 | | | | 11 | | | |
| Headstock main spindle bore Valid for all centre distances | mm/in | 42 / 1 1/2 | | 65 / 2 1/2 | | 80 / 3 | | | | 105 / 4 | | 155 / 6 | | |
| Main spindle nose | ASA / CAM-LOCK | A2 - 5 / D1 - 5 | | A2 - 6 / D1 - 6 | | A2 - 8 / D1 - 8 | | | | A2 - 8 / D1 - 8 | | A2 - 11 / -- | | |
| Main spindle nose taper | MT | 4 | | 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 - 10 | | | | 0 - 10 | | | |
| | Fanuc | m/min | 0 - 10 | | 0 - 10 | | 0 - 10 | | | | 0 - 10 | | | |
| | Siemens | m/min | 0 - 7 | | 0 - 7 | | 0 - 7 | | | | 0 - 7 | | | |
| Working feeds X | Fagor | m/min | 0 - 12 | | 0 - 12 | | 0 - 12 | | | | 0 - 12 | | | |
| | Fanuc | m/min | 0 - 12 | | 0 - 12 | | 0 - 12 | | | | 0 - 12 | | | |
| | Siemens | m/min | 0 - 12 | | 0 - 12 | | 0 - 12 | | | | 0 - 12 | | | |
| Rapid traverse Z | Fagor | m/min | 12.5 | | 12.5 | | 12.5 | | | | 12.5 | | | |
| | Fanuc | m/min | 12.5 | | 12.5 | | 12.5 | | | | 12.5 | | | |
| | Siemens | m/min | 9 | | 9 | | 9 | | | | 9 | | | |
| Rapid traverse X | Fagor | m/min | 15 | | 15 | | 15 | | | | 15 | | | |
| | Fanuc | m/min | 15 | | 15 | | 15 | | | | 15 | | | |
| | Siemens | m/min | 15 | | 15 | | 15 | | | | 15 | | | |
| Z - Ball screw, Ø/pitch | mm | | | | | 40 / 10 | | | | | | | | |
| X - Ball screw, Ø/pitch | mm | | | | | 20 / 5 | | | | | | | | |
| Tailstock | | | | | | | | | | | | | | |
| Tailstock barrel Ø | mm/in | 58 / 2 1/4 | | 68 / 2 1/2 | | 95 / 3 3/4 | | | | 95 / 3 3/4 | | | | |
| Tailstock barrel travel | mm/in | 180 / 7 | | 200 / 7 3/4 | | 220 / 8 1/2 | | | | 220 / 8 1/2 | | | | |
| Tailstock Morse taper | MT | 4 | | 4 | | 5 | | | | 5 | | | | |
| Turret | | | | | | | | | | | | | | |
| Stations of standard turret | | 8 | | | | 8 | | | | | | | | |
| Tool shank | mm | 20x20 | | | | 25x25 | | | | | | | | |
| Ø Boring bar | mm | 32 | | | | 40 | | | | | | | | |
| Dimensions and Weight | | | | | | | | | | | | | | |
| Length | mm | 2250 | 2520 | 2810 | 3325 | 2810 | 3320 | 3940 | 4750 | 2810 | 3325 | 3940 | 4750 | |
| Width | mm | 1170 | | 1270 | | 1370 | | 1450 | | 1450 | | 1700 | | |
| Height | mm | 1820 | | 1890 | | 1930 | | 2110 | | 1930 | | 2110 | | |
| Weight | kg | 1200 | 1490 | 2230 | 2340 | 2250 | 2475 | 2970 | 3640 | 2300 | 2515 | 3010 | 3700 | |
| Options | | | | | | | | | | | | | | |
| Fixed steady rest Ø | mm | 10 - 125 | | 10 - 140 | | 10 - 180 | | | | 10 - 180 | | | | |
| Large capacity fixed steady rest Ø | mm | 110 - 200 | | 140 - 250 | | 180 - 350 | | | | 180 - 400 | | | | |
| Follow rest Ø | mm | 10 - 80 | | 10 - 90 | | 10 - 130 | | | | 10 - 130 | | | | |
| Dimensions and weight with packaging | | | | | | | | | | | | | | |
| Length | mm | 2450 | 2720 | 3010 | 3525 | 3010 | 3520 | 4140 | 4950 | 3010 | 3525 | 4140 | 4950 | |
| Width | mm | 1270 | | 1370 | | 1470 | | 1550 | | 1550 | | 1800 | | |
| Height | mm | 2020 | | 2090 | | 2130 | | 2310 | | 2130 | | 2310 | | |
| Weight | kg | 1500 | 1790 | 2530 | 2640 | 2650 | 2875 | 3370 | 3940 | 2700 | 2915 | 3410 | 4100 | |

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