

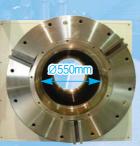






Big Bore and Chucker type CNC Lathe

The Hankook Heavy Duty CNC Lathe Hanturn BB550 is Designed for Maximum Efficiency, Rigidity and Versatility in Heavy Machining Operations.



Features

- Big spindle bore Ø550mm (21.6")
- Powerful 769 kgf.m (7536 N.m) spindle torque
- Powerful 45kW (60Hp) spindle motor
- Extra wide (1320mm) one-piece cast iron bed
- Induction-hardened and precision-ground guide ways
- Heavy duty bi-directional H-6 turret
- Full automatic lubrication to all critical areas



Headstock

- Extremely rigid, robust box type to sustain heavy duty work.
- 2 steps gear change for high torque driving with low speed.
- All spindle bearings are high precision class.
- Big spindle bore, Ø550mm (21.6").
- High volume forced lubrication system with safety interlock is provided for lubrication and heat dissipation.

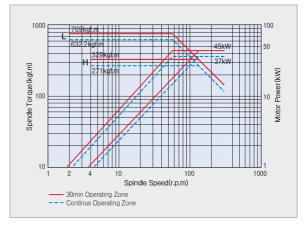


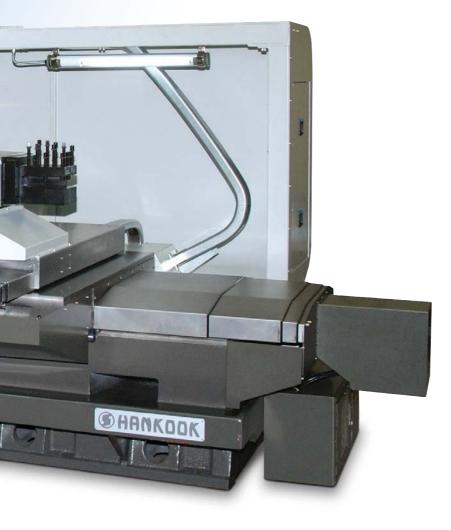
Bed

- The extra wide(1320mm) bed is a heavy one-piece casting with thick ribbing to prevent twisting and deformation.
- Fine grain Meehanite cast iron is used for its excellent dampening characteristics.
- Chips are easily disposed through steep angle chutes provided in between bed ways.



Spindle Torque & Power Diagram

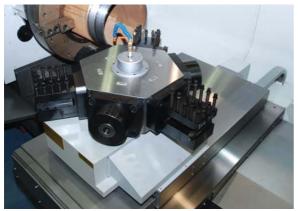




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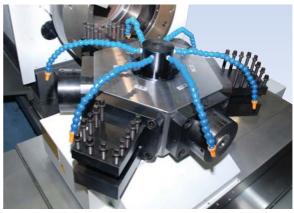
Hankook Machine Tools

Carriage



- The extremely rigid extended box type saddle and wide (600mm) cross slide allow heavy and interrupted cutting with ultimate stability and high accuracy.
- The fluorine-plastic resin combined way lubrication provides a low friction on surface and prevent guide-way from wearing.

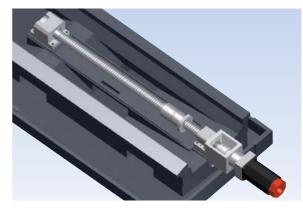
H-6 Turret

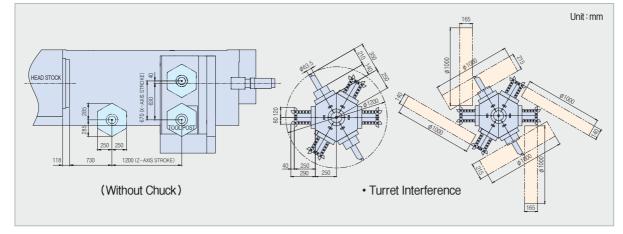


- Extra wide and rigid horizontal hexagonal tool turret with a full capacity of heavy-duty turning, boring and big size threading.
- Very accurately positioned after indexing, and securely locked by Curvic Coupling.
- Bi-directional indexing to select the closest path to the next tool position programmed.

Axis Drives

- Each axis is driven by high precision ball-screw and powered by high torque, maintenance free Fanuc digital AC servo motor.
- Ball-screws are supported on both ends by high precision bearings.
- Driven by Ø80mm dia., 20mm pitch ball-screw centrally mounted for stable travel, efficient power, smooth finish and best accuracy.
- Rapid traverse rate of X-axis is 4000mm/min and Z-axis is 6000mm/min.





Machining Range





Machine Specifications

| | Items | Unit | HANTURN-BB550 |
|-----------------|-------------------------------------|------------|------------------------|
| Capacity | Swing over bed | mm(inch) | Ø1100(43.3) |
| | Swing over carriage | mm(inch) | Ø600(23.6) |
| Spindle | Spindle bore | mm(inch) | Ø550(21.6) |
| | Spindle speed | rpm | 2~306 |
| | Spindle speed range | step | Auto 2 |
| | Max. spindle torque | kgf.m(N.m) | 769(7536) |
| Tool Post | Type of tool post | - | H-6(Hydraulic index) |
| | No. of tool | EA | 6 |
| | Tool size | mm(inch) | 32×32(11/4×11/4) |
| Travel | X-axis travel | mm(inch) | 670(26.4) |
| | Z-axis travel | mm(inch) | 1100(43.3) |
| | X-axis rapid traverse | m/min(ipm) | 4(157) |
| | Z-axis rapid traverse | m/min(ipm) | 6(236) |
| Bed | Bed width | mm(inch) | 1320(52) |
| | Bed length | mm(inch) | 5210(205) |
| | Spindle motor | kW(Hp) | AC 37/45(50/60) |
| Motors | X-axis servo motor | kW(Hp) | AC 3(4) |
| | Z-axis servo motor | kW(Hp) | AC 7(9) |
| Maahina | Height | mm(inch) | 2300(91) |
| Machine Size | Floor space(Chip conveyor included) | mm(inch) | 7510×3370(296×133):L×W |
| | Machine weight | kg(lbs) | 16,500(36,400) |
| | CNC Controller | - | FANUC 32i-A |

Standard Accessories

- CNC controller, FAUNC 32i-A
- Spindle motor & electrical equipments
- Spindle bore Ø550mm
- Automatic index turret (Hydraulic H-6)
- 4-jaw independent chuck (ID Ø560mm)
- Coolant system
- Oil cooler for headstock lubrication
- Hydraulic power unit
- Automatic lubrication system for guides
- Chip conveyor & bucket
- OD tool holder (□32mm) • Boring tool holder (Ø60mm)
- Boring bar sleeve (\emptyset 60×40, 32mm)
- Levelling block

Foundation bolts & nuts

Tool box with maintenance tools

Optional Accessories

| • Air chuck (ID Ø560mm) | | | |
|---|--|--|--|
| Pneumatic system | | | |
| • Transformer | | | |
| • Drill sleeve (MT#4, #3) | | | |
| Boring tool holder (Ø63.5mm) | | | |
| • Boring bar sleeve (Ø60×25,20mm/Ø63.5×40,32,25,20mm) | | | |
| Air-conditioner for electrical cabinet | | | |



Standard CNC Control Features

FANUC 32i-A Control Features

- Simultaneously controllable axes : 2
- Minimum programmable increment : 0.001mm(0.00001")
- Tape storage length : 640m(512 KB)
- Registerable programs : 63
- Backlash compensation
- Pitch error compensation
- Constant surface speed control
- Self diagnostic functions

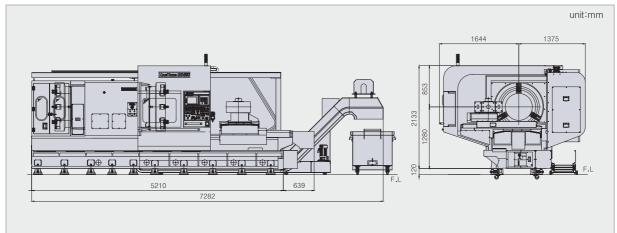
Programming Features

- Circular interpolation by radius designation
- Tool nose radius compensation(G40–G42)
- Combined use of absolute/incremental command
- Inch/Metric programming
- Chamfering, corner R
- Multiple repetitive cycles(G70-G76)
- Canned cycles(G90,G92,G94)
- Decimal point programming
- Reference point return(G27-G30)
- Sub-program 4 holds nested

External Dimensions

Operation Features

- 10.4" color LCD
- Geometry and wear offsets
- 64 pairs of tool offsets
- Run hour display
- Thread cutting retract
- Direct input of offset value measured
- Input/output interface (RS232C)
- Keyboard type manual data input (MDI full key)
- Program protect key
- Incremental offset
- Rapid traverse override
- Feed rate override
- Spindle speed override
- Tape code: EIA, ISO Automatic recognition



• Specifications and features are subject to change without prior notice.

🕥 HANKOOK

HEAD OFFICE & PLANT

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