

# Microcut heavy duty CNC lathe BNC-5000

Best  
Quality



**BNC-5000 heavy duty CNC lathe**

**MICROCUT's heavy duty CNC lathe BNC-5000 series** is specially designed with high rigid structure of box way with one-piece bed suitable for heavy duty cutting.

Four guideway bed with high torque output provides the best cutting performance. To offer a one-shot setup and best finishing, C-axis with braking system is available for multiple operations. BNC-5000 can be widely utilised in various fields, such as oil-, construction-, rubber-, iron and steel industries as well as power plants and ship yards.

Built-in 2-step gear box driven by hydraulics for automatic spindle speed change. Gear box is with helical gears ensuring low noise and full power transmission.

## **Distinctive features:**

- High spindle speed & output torque
- Interlocked sliding chuck guard
- Four wide guideways on one-piece bed for heavy loading
- Transmission of feed movement to the longitudinal slide and precision rack with tilted teeth
- Z-axis with linear scale for precision accuracy feedback
- Twin prismatic guideways in inverted "V" for the cross slide
- Motorised movement of tailstock body and quill
- Easy chip removal design
- Various types of turret
- CNC control with "Teach-In" and "thread repair" facility

## **Standard equipment:**

- Fanuc 0iTD control with 10,4" LCD and Manual Guide i
- Helical gear box with automatic speed changer
- Chuck sliding guard with interlock device
- Motorised tailstock
- Travelling front single door interlocked with carriage
- Coolant system
- Lubrication system
- CE marking declaration conformity for EU
- Leveling pads
- Tool set & kits
- Linear scale for Z-axis

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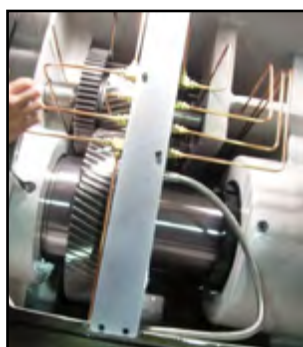
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## Optional equipment:

- 4/8 stations automatic turret
- C-axis and live tooling
- Y-axis / B-axis
- Boring bar holder and boring bar
- Tailstock quill axial force measurer
- Chip conveyor
- Grinding head
- Automatic or manual chuck
- Close or open fixed steady rest
- Hydraulic steady rest
- Probe for tools or workpiece measuring
- EMC
- Available controls:  
Fanuc 0iTD, Fagor 8055i Power or Siemens 840D sl control with shop turn



Rigid headstock built-in with gear box



Built-in 2 step gear box with helical gears



Well-protected chuck guard with interlock switch



Twin prismatic guideways in inverted "V" for the cross slide

		BNC-5000
Swing over bed	mm	1300
Swing over cross slide	mm	980
Max. cutting length with turret	mm	3000 / 4000 / 5000 / 6000 / 8000 / 10000 / 12000
Travel X-axis	mm	650
Travel Z-axis	mm	3000 / 4000 / 5000 / 6000 / 8000 / 10000 / 12000
Rapid feed X-axis	m/min.	10
Rapid feed Z-axis	m/min.	10
Spindle bore	mm	Ø153
Spindle speed	rpm	1-800 (Fanuc) 1-1080 (Siemens)
Spindle motor	kW	60/75 (Fanuc) 60/84 (Siemens)
Quill stroke	mm	230
Quill diameter	mm	240
Weight	kg	18 - 45 (depending on model and equipment)