

BFW CHANDRA+ CH+P3-008 CNC Vertical Milling Machine – User Manual (Simplified)

1. Machine Overview

The BFW CHANDRA+ CH+P3-008 is a CNC vertical milling machine with Fanuc CNC control, designed for precision milling operations. It supports X, Y, Z travels of 800 mm × 350 mm × 380 mm, spindle speed up to 6000 rpm, and a table load capacity of 300 kg.

Key Features: - Fanuc CNC control system - Spindle taper: BT-40 - Spindle nose to table distance: 75–455 mm - Table size: 1060 × 315 mm - Supports multiple tooling for versatile milling operations

2. Safety Guidelines

- Always wear protective eyewear and safety shoes.
- Keep hands away from the spindle and cutting tools.
- Ensure proper clamping of workpiece before starting.
- Do not operate without machine guards.
- Emergency stop button must be accessible at all times.

3. Installation & Setup

1. Place the machine on a flat, stable surface.
2. Connect the machine to the specified power supply (10 KVA).
3. Ensure proper grounding.
4. Install and configure the Fanuc CNC control system.
5. Check lubrication systems and coolant levels.
6. Load appropriate tools into the tool magazine.

4. Basic Operation

1. Power on the machine and CNC system.
2. Home all axes using the CNC interface.
3. Mount and secure the workpiece on the table.
4. Load the milling program into the CNC system.
5. Set spindle speed, feed rates, and coolant settings.
6. Run a test operation if required.
7. Start the full milling operation.
8. Monitor cutting for any abnormalities.
9. Upon completion, remove the workpiece carefully.

5. Maintenance

- Regularly clean the machine and table surface.
- Check and replenish coolant and lubrication.
- Inspect spindle and tool holders for wear.
- Tighten bolts and fasteners periodically.
- Update CNC software if applicable.

6. Troubleshooting

Issue	Possible Cause	Solution
Poor surface finish	Incorrect feed/spindle speed	Adjust feed rate and spindle RPM
Excessive vibration	Improper clamping	Re-secure workpiece
CNC alarm	Program error	Check and reload program
Spindle overheating	Overload	Reduce speed/load and check lubrication

7. Operational Area

- Face Milling, End Milling, Side & Face Milling, Drilling, Tapping, Contour Milling, Pocket Milling, Chamfering, Profile Milling
- Suitable for precision machining of metal components, molds, and tooling