Computer Numerically Controlled (CNC) Machining and Tool Path Programming









Three-Axis CNC Machines

- In 3-axis CNC vertical machine, the working table moves along x- and y-axis, and the tool along z-axis.
- In machining, tool orientation is fixed, either in vertical or horizontal direction.

CINCIN

Arrow Series 2 VMC 1250

 If all surfaces to be machined are accessible by the cutter in one setup, select a 3-axis CNC machine.

Synchronized Motions in 3 Axis

Five-Axis CNC Machines

- X-, Y-, and Z- Axis Motions and A- and B- axis Rotations (Simultaneously)
- Tool orientation can be changed simultaneously during machining.
- If some surface patches to be machined are not accessible by the cutter in one setup, consider to use a 5-axis CNC machine.





















































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