

3+1 AXIS MACHINING CENTER: Designed for drilling, conventional milling and copy milling operations in aluminum profiles. Other materials include steel profiles, plain or steel reinforced PVC profiles, and various other plastics or wood.

WORKING DIMENSIONS: X—157" | Y—10.6" | Z—8.7"

AXIS SPEEDS (INCHES PER MINUTE): X—1,968 | Y—590 | Z—590



STANDARD:

- **Construction:** Welded steel bed frame with hardened and ground X axis guides and single precision rack and pinion axis motion driven by DC motor. Bridge type gantry assembly made from cast structural beams with hardened and ground Y and Z axis guides and precision ball & screw drive motion driven by DC motors.
- **Electrospindle:** 7.4 Hp/18,000 RPM ISO30. 4 poles. Air cooled.
- **NC:** Modular with industrial PC, 1 GHz CPU, 20 Gb hard drive, Ethernet, USB port, 15" color monitor, modem, mouse, keyboard, Windows XP®.
- **Software:** Capability to program while machine is operating. CN6 control software with ISO language editor and compiler, SLW (Self Learning Software; graphical user interface that allows programming based on visual reference between machine display and technical drawings or sketches), ISOWIN (2D graphical user interface for generating and displaying machinings on 3 sides of the work-piece), FORMULA (for carrying out the same machinings on work-pieces of varying dimensions).
- **Tool magazine:** Fixed on left side of X axis. 4 tool positions. Additional stores optional. 15 to 20 second tool change.
- **Clamping system:** Moveable pneumatic vice clamps.
- **Coolant system:** Venturi coolant system. NC controlled.
- **Safety device:** Photocells along front of machine, tubular steel structure along sides and back.
- **Linear repeatability:** Positioning controlled by rotating transducers. Programmed linear positions will repeat to + / - 0.0039".
- **Dry run capability**
- **Tool life alarm, production counter & cycle timer**
- **Absolute and incremental jog**
- **Fixed zero-point stop**
- **5 days on-site installation and training**
- **1 year/2,000 hours warranty on parts and labor**

OPTIONS:

- SLW software for the office
- NC Tool: 2D CAM software for drawing and importing CAD drawings then generating machine code in ISO
- TK CAM: 3D CAM software for advanced graphical interface and programming
- Bar code utilities for automating program load and for integration to production systems
- Bar code reader - hardwired or wireless
- Rotating clamp system: +90° to -90° in 0.1° increments. Max. 5.5" Y axis, 4.7" Z axis
- LED collision warning system
- Sound deadening enclosure
- Pressure fed micro-drop technology coolant system (any non-corrosive coolant can be used)
- Voltage stabilizer
- Uninterruptible power supply
- Electronics cabinet cooling system

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