**FANUC 0i-MF CONTROL SPECIFICATIONS**

***TYPE OF CONTROL***

* 32-Bit Multi-Processor Continuous-Path Control

***HARDWARE COMPONENTS***

* 10.4” Color TFT LCD Screen
* PMCIA Flash Memory Card Interface
* USB Port
* Ethernet Port
* RS232 Interface

***SCREEN DISPLAY***

* Window Oriented Operator Interface
* Display of Current Block and Position Check Screen During Program Execution
* Screen Texts: English (24 additional languages available)
* Machine, Absolute, Relative, and Distance to Go Position Display
* Spindle Speed / Feed Rate Display
* Spindle / Servo Load Monitor
* Current Alarm / Alarm History Display

***OPERATION***

* Program Protection on Machine Control Panel
* 512Kbyte Part Program Storage
* 400 Part Programs Storage
* Built In Run Hour / Parts Counter / Cycle Time Display
* Tool Life Management
* Tool Measurement Compensation (with Optional Tool Setter)
* Background Editing
* Help Function
* Graphic Display
* 1 Position Spindle Orientation
* Optional Block Skip
* Program Restart
* Offset Guard Function
* Rigid Tapping

***MODES***

* Automatic
* Control of Automatic Mode by:

-          Feed Hold / Cycle Stop

-          Block Skip

-          Single Block

-          Optional Stop

-          Dry Run

-          Machine Lock

-          Z Axis Cancel

* Jog
* MDI (Manual Data Input)
* Edit
* Handle (Portable MPG Unit)

***MACHINE CONFIGURATION FOR AXES***

* Inch or Metric Programming
* Switching Between Metric and Inch for Input and Offsets, Display, and Programmed Path
* Feedrate and Rapid Traverse: Minimum Input Feedrate in Inches / min = .0001 inches / min
* Revolution Feedrate: Minimum Input Feedrate in Inches / Rev = .0001 inches / rev

***OVERRIDES, OFFSETS AND COMPENSATIONS***

* Feedrate Override 0% to 200%
* Rapid Override 0%, 25%, 50%, and 100% (0% is user adjustable)
* Spindle Speed Override 50% to 150%
* 400 Pair Tool Offsets
* Work Offsets (G54-G59)
* Extended Work Offsets (48 Additional)
* Tool Length Geometry and Wear Compensation
* Tool Diameter Geometry and Wear Compensation
* Backlash Compensation

***CNC PROGRAMMING***

* Diameter / Radius Tool Geometry Compensation
* Insert, Alter, Delete
* Character, Program & Sequence Number Search
* Cut, Copy, and Paste Function
* Corner Chamfer / Corner Radius Programming
* Stored Stroke Check / 1st, 2nd, 3rd, and 4th Reference Return Positions
* Absolute (G90) / Incremental Programming (G91)
* Programmable Mirror Image (G51.1)
* Skip Function (G31)
* Sub-Program Call (10 Level Nest)
* Canned Drilling Cycles (G73-G89)
* Scaling (G51)
* Coordinate System Rotation (G68)
* Circular & Helical Interpolation by R, I, J, K
* Feed Per Minute (G94) / Feed Per Revolution (G95)
* AI Advanced Preview Control 20 Block Look Ahead (G5.1 Q1)
* Programmable Data / Parameter Input
* Custom Macro B / 600 User Variables

***SAFETY AND DIAGNOSTIC FUNCTIONS***

* Safety Routines Permanently Active for Measuring Circuits, Over Temperature, Battery, Voltage, Memory, Limiting Switches, Hydraulic System, and Cooling Systems
* Self-Diagnostics
* Servo Monitoring
* Spindle Monitoring