

## FANUC OiMD STANDARD CONTROL FEATURES

### Controlled Axes

- Controlled Axes: XYZ
- Simult. Cont Axes: Positioning/Linear/Circular (3/3/2)
- Max Simultaneously Controllable Axes: 4

### Programmable Methods

- Least Input Increment: 0.001mm (0.0001")
- Least Command Increment: 0.001mm (0.0001")
- Max Command Value: 9,999.9999"
- Absolute/Incremental Programming
- Decimal Point Programming
- Inch/Metric Conversion
- Increment System 1/10: 0.0001mm (0.000001")

### Interpolation

- Positioning
- Linear Interpolation
- Circular Interpolation
- Cylindrical Interpolation
- Helical Interpolation : Circular +max 2 axes linear

### Feed

- Manual Handle Feed: 1 unit
- Manual Handle Feed Rate: x1 / x10 / x100
- Rapid Traverse Rate Override: F0/25/100%
- Feedrate Override: 0-150%
- Feedrate Override Cancel
- Spindle Orientation

### Program Storage & Editing

- 1280m (512KB) part program storage
- Number of stored programs: 400

### Operation & Display

- 10.4" TFT LCD display
- Running time display / Number of parts display
- Clock function: screen display

### IO Function & Units

- I/O Interface: RS232
- Memory card interface: PCMCIA (front slot)
- Ethernet
- DNC operation w/ memory card (front slot)
- DNC operation w/ memory card (data server)
- Programmable data input
- Rigid tapping
- Automatic corner override
- Automatic corner deceleration
- Chamfering / Corner R
- Interruption type custom macro
- Scaling
- Coordinate system rotation
- Programmable mirror image
- Addition of custom macro common variable
- Polar coordinate command
- Pattern data input
- Normal direction control

### STM Functions

- Spindle speed function: 5 digit S code
- Spindle speed override: 50-120%
- Tool function: 4 digit T code
- M function: 3 digit M code

### Tool Offset

- Tool length compensation
- Tool offset memory C: geometry & wear offset
- Number of tool offsets: 400 sets
- Cutter compensation C
- Tool offset

### Coordinate System

- Manual reference position return
- Automatic reference position return
- 2<sup>nd</sup> reference position return
- 3<sup>rd</sup> & 4<sup>th</sup> reference position return
- Reference position return check
- Automatic coordinate system setting
- Coordinate system setting
- Work coordinate system: G52-G59
- Addition of work coordinate system pair: 48

### Operation Support Function

- Single block
- Dry run
- Machine lock
- Mirror image
- Extended part program editing
- Background editing
- Load meter display: screen display
- Control axis detach
- Tool length measurement
- Program restart
- Sequence number comparison and stop
- Manual handle interruption

### Programming Support Function

- Canned cycles for drilling
- Sub program
- Custom macro B
- Exact stop
- Exact stop mode
- Data server
- Dynamic graphic display

### Operation Guidance Section for Milling

- Manual Guide Oi

### Automatic Support Function

- Skip
- High speed skip
- Multi-step skip
- Tool life management
- Extended tool life management

**Mechanical Accuracy Compensation**

- Backlash compensation
- Pitch error compensation
- Rapid traverse/cutting feed backlash compensation

**Setting & Display**

- Servo setting screen
- Graphic function

**Safety & Maintenance**

- Stored stroke check 1 & 2
- Over travel
- Alarm history display
- Help function
- Operation history display
- Self diagnosis function