# Series 30i-B CNC for Milling

## STANDARD FEATURES

### Axis Control
- Digital Servo Function
- 1 Controlled Path
- 3 (up to maximum of 24) Simultaneously Controllable Axes (J801) (J803)
- Serial Encoder Interface
- Axis Names Selected from X,Y,Z,U,V,W,A,B,C
- Least Input Increment of 0.001mm, 0.0001", 0.001deg
- Inch/Metric Conversion (J876)
- Interlock per Axis
- Machine Lock
- Emergency Stop
- Overtravel Signal
- Stored Stroke Check 1
- Mirror Image
- Follow-up Function
- Servo Off
- Mechanical Handle Feed
- Backlash Compensation
- Stored Pitch Error Compensation (J841)

### Operation
- Memory Operation
- DNC Operation
- MDI Operation
- Program Number Search
- Sequence Number Search
- Buffer Register
- Dry Run Mode
- Single Block Mode
- Manual Feed Mode (Jog)
- Manual Reference Point Return
- Manual Handle Feed (J835)  
  (requires MPG)
- Incremental Feed

### Interpolation
- Positioning (G00)
- Exact Stop Mode (G61)
- Exact Stop (G09)
- Linear Interpolation
- Circular Interpolation
- Dwell (G04)
- Helical Interpolation (J819)
- Skip Function (G31)
- Automatic Reference Point Return (G28, G29)
- Reference Point Return Check (G27)
- 2nd Reference Point Return (G30)
Series 30i-B CNC for Milling

### Feed Function
- Rapid Traverse Feedrate 240m/min (100m/min @0.0001mm increment)
- Rapid Traverse Feedrate Override (preset value, 25%, 50%, 100% settings)
- Feed per Minute
- Tangential Speed Control
- Cutting Feedrate Clamp
- Automatic Acceleration/Deceleration (Rapid Traverse: Linear; Cutting Feed: Linear or Exponential)
- Rapid Traverse Bell-Shaped Acceleration/Deceleration
- Feedrate Override 0-254%
- Jog Override 0-655.34 %
- Override Cancel

### Programming
- EIA/ISO Automatic Identification
- Label Skip
- Parity Check
- Control In/Out
- Optional Block Skip
- Maximum Programmable Value - 8 digits
- Program Number - O with 4 digits
- Sequence Number - N with 5 digits
- Absolute or Incremental Command
- Programmable Data Input (G10)
- Decimal Point Input
- 10 Times Input Unit
- Plane Selection (G17, G18, G19)
- Rotary Axis Setting
- Rotary Axis Rollover
- Coordinate System Setting (G92)
- Automatic Coordinate System Setting
- Manual Absolute On/Off
- Subprogram Calling
- Canned Drilling Cycles (G73, G74, G76, G80-G89, G98, G99) (J890)
- Specifying the Radius of an Arc

### Auxiliary and Spindle Functions
- Miscellaneous Function - M with 8 digits
- Miscellaneous Function Lock
- High Speed M/S/T Interface
- Multiple Commands of Miscellaneous Functions (up to 3)
- Spindle Function - S with 5 digits
- Serial Spindle Interface (J850)
- Spindle Override 0-254%

### Tool Functions and Tool Compensation
- Tool Function - T with 8 digits
- 32 Tool Offsets
- Tool Length Compensation (G43, G44, G49)
- Tool Radius/Tool Nose Radius Compensation (J930)
## Series 30i-B CNC for Milling

### Part Program Storage & Editing
- 256KB Part Program Storage (J945)
- 63 Stored Part Programs
- Part Program Editing
- Part Program Protection
- Multi Part Program Editing (J956)
- Extended Part Program Editing

### Display
- Status Display
- Clock Function
- Current Position Display
- Program Display
- Parameter Setting Display
- Self Diagnosis
- Alarm Display
- Alarm History Display
- Help Function
- Run Time/Part Count Display (J971)
- Actual Cutting Speed Display
- Servo Adjustment Screen
- System Configuration Display
- English Language
- Data Protection Key

### Data Input/Output and Communications
- I/O Link or I/O Link i Interface
- Punch Panel with 2m Cable
- Reader/Punch Interface 1 (RS-232) (J900)
- External Workpiece Number Search
- External Data Input (J913)
  - includes External Tool Offset
  - External Message
  - External Machine Origin Shift
  - External Program Number Search
- Status Output Signal

### Other
- CD-ROM containing Product Manuals included in the BOM of the Root CNC Operation and Maintenance Handbook B-64487EN FS30/31i/32i-Model B Oper and Maint Handbook
- Qty 1 A02B-0120-K324 CONNECTOR AND PINS
- Miscellaneous conn:
  - Qty 2 A02B-0120-K301 HONDA CONNECTOR
  - Qty 1 A02B-0120-K323 CONNECTOR AND PINS
- Spare Fuses A02B-0236-K100 LCD or A02B-0265-K100 Stand Alone
- Cable Clamps A02B-0303-K001 8 CABLE CLAMPS
- Grounding Bar 44B295864-001 GROUNDING BAR 11 SLOT
### SERIES 30i-B PACKAGE CHOICES

<table>
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<tr>
<th>Package A</th>
<th>Package B</th>
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<tr>
<td>3 Axes</td>
<td>3 Axes</td>
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<tr>
<td>2 Slot Rack</td>
<td>4 Slot Stand Alone</td>
</tr>
<tr>
<td>LCD Mount</td>
<td>HSSB</td>
</tr>
<tr>
<td>Embedded Ethernet</td>
<td>Embedded Ethernet</td>
</tr>
<tr>
<td>15&quot; LCD Color Touch</td>
<td>PMC 24K Steps</td>
</tr>
<tr>
<td>Serial Spindle</td>
<td>Serial Spindle</td>
</tr>
<tr>
<td>CPU Card B2</td>
<td>CPU Card B2</td>
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<tr>
<td>Basic Function G301</td>
<td>Basic Function G301</td>
</tr>
<tr>
<td>Sep Vert Type MDI</td>
<td>Axis Card B12</td>
</tr>
<tr>
<td>Axis Card B12</td>
<td>Axis Card B12</td>
</tr>
</tbody>
</table>

This Form assumes the use of HRV2. If HRV3, HRV4 or additional servo motors are required, please complete this form as close as possible to your desired configuration, then e-mail the form and your requested changes to: cnc_express@fanucamerica.com

CNC Express will modify the form per your request and return the form to you.

G301 => Supports 2 Paths, up to 12 axes (12 per path) and 4 spindles. => A02B-0323-C128 or equivalent

### PACKAGE DEPENDENT OPTIONS

- Automatic Data Back-up, 3 Sets of Back-up Data, SRAM + PPS
- USB Memory I/O is available on LCD Mount CNCs & the LCD for S.A.

Shading indicates restrictions, see Package Options for details.
Series 30i-B CNC for Milling

ORDER FORM

Series 30i-B CNC Express Package A for Milling - 15" LCD Mount w/ Touch Screen.  
Series 30i-B CNC Express Package B for Milling - 4 Slot Stand Alone.  

Package A Options

| PROFIBUS DP Master Board (J311, S731, J562#6552) | Choose no more than two |
| PROFIBUS DP Slave Board (J313, S732, J563#655C) | Option Boards |
| PROFIBUS Application Software, J535#655B, required for all PROFIBUS |
| HSSB Board (High Speed Serial Bus) (J202) (includes Extended D/L Function, 10m F/O cbl) |
| 1st Fast Ethernet Board (J147) Requires Communication Option Below: |
| Fast Ethernet Function (S707) (Uses FOCAS Protocol) |
| Data Server Function (S737, R953) (req's ATA Flash Mem Card) (Uses FTP for data transfer) |
| Ethernet/IP Adapter Function (R967), Data Server requires a separate Ethernet Board |
| Ethernet/IP Scanner Function (R966), Data Server requires a separate Ethernet Board |

Package B Options

| PROFIBUS DP Master Board (J311, S731, J562#6552) | Choose no more than four |
| PROFIBUS DP Slave Board (J313, S732, J563#655C) | Option Boards |
| PROFIBUS Application Software, J535#655B, required for all PROFIBUS |
| 1st Fast Ethernet Board (J147) Requires Communication Option Below: |
| Fast Ethernet Function (S707) (Uses FOCAS Protocol) |
| Data Server Function (S737, R953) (req's ATA Flash Mem Card) (Uses FTP for data transfer) |
| Ethernet/IP Adapter Function (R967), Data Server requires a separate Ethernet Board |
| Ethernet/IP Scanner Function (R966), Data Server requires a separate Ethernet Board |

Manual Guide i in Package A - Requires Custom Macro (J873) for full functionality.

Manual Guide i in Package B - Requires Custom Macro (J873) for full functionality.

Manual Guide i Multi Path Function (S786) for 2 paths.  
Requires (S790).

10.4" LCD A Color w/ Tch Scrn (C084) (290x220mm), J682, Pen & 10m F/O cbl, A02B-0120-K323, A02B-0120-K324, A02B-0319-K191

15.0" LCD Color w/ Tch Scrn (C092) (400x320mm), J682, Pen & 10m F/O cbl, A02B-0120-K323, A02B-0120-K324

CNC Side HSSB Board (incl's A02B-0207-J900, 10m F/O cbl) Requires one Option Slot

Without Standard CNC Display Unit - HSSB (J389) to Panel i or PC side HSSB, 10m F/O cbl.  
Without Standard CNC Display Unit - Embedded Ethernet (J390) connects to iPendant only

Ethernet Display Function (R950 & J573#658N) Embedded Ethernet to PC, not for iPendant

Sep Type MDI (Vert PC Type) (QWERTY) (290x160mm) A02B-0323-C128 or equivalent

Sep Type MDI (QWERTY Type B) (400x145mm) No 10.4" LCD A02B-0303-C129 or equivalent

Sep Type MDI (ONG Type) (Vertical) (290x220mm) A02B-0323-C126#M or equivalent

Sep Type MDI (ONG Type) (Horizontal) (230x220mm) A02B-0323-C125#M or equivalent

Manual Guide i in Package B - Requires Custom Macro (J873) for full functionality.

Manual Guide i Multi Path Function (S786) for 2 paths.  
Requires (S790).

10.4" Color LCD A w/ Touch Screen (C092) (400x320mm), J682, Pen & 10m F/O cbl, A02B-0120-K323, A02B-0120-K324

10.4" Color LCD A w/ Touch Screen (C084) (290x220mm), J682, Pen & 10m F/O cbl, A02B-0120-K323, A02B-0120-K324, A02B-0319-K191

15.0" Color LCD w/ Tch Scrn (C092) (400x320mm), J682, Pen & 10m F/O cbl, A02B-0120-K323, A02B-0120-K324

High Speed Serial Bus (HSSB) includes:  
Extended D/L Function J900 & 10m F/O Cable

The following options may be ordered for Packages A or B

Basic Function

| G311 Basic S/W for up to 4 paths, 20 controlled axes, 16 per path, and 6 spindles, 4 per path |
| G321 Basic S/W for up to 10 paths, 32 controlled axes, 24 per path, and 8 spindles, 4 per path |

Number of Paths

| Two Control Paths | Minimum of 6 Axes |
| Three Control Paths, requires G311 or G321 Basic Function | Minimum of 9 Axes |
| Four Control Paths, requires G311 or G321 Basic Function | Minimum of 12 Axes |
## Series 30i-B CNC for Milling

<table>
<thead>
<tr>
<th>Control Paths</th>
<th>Required Minimum Axes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Five</td>
<td>15</td>
</tr>
<tr>
<td>Six</td>
<td>18</td>
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<tr>
<td>Seven</td>
<td>21</td>
</tr>
<tr>
<td>Eight</td>
<td>24</td>
</tr>
<tr>
<td>Nine</td>
<td>27</td>
</tr>
<tr>
<td>Ten</td>
<td>30</td>
</tr>
</tbody>
</table>

### Axis Control: up to 32 axes and 8 spindles are possible.

- 4th Axis
- 5th Axis
- 6th Axis
- 7th Axis
- 8th Axis
- 9th Axis
- 10th Axis
- 11th Axis
- 12th Axis
- 13th Axis, Requires G311 or G321 Basic SW, changes to B13 Servo Card, 1 FSSB Line
- 14th Axis
- 15th Axis
- 16th Axis
- 17th Axis
- 18th Axis
- 19th Axis changes to B24 Servo Card, 2 FSSB Servo Lines
- 20th Axis
- 21st Axis, Requires G321 Basic SW
- 22nd Axis
- 23rd Axis
- 24th Axis
- 25th Axis changes to B26 Servo Card, 2 FSSB Servo Lines
- 26th Axis
- 27th Axis
- 28th Axis
- 29th Axis
- 30th Axis
- 31st Axis
- 32nd Axis

### Number of Serial Spindles (default is one). >1 Spindle per path requires Multi Spindle Control.

- 2 Spindles
- 3 Spindles
- 4 Spindles
- 5 Spindles, Requires G311 or G321 Basic SW
- 6 Spindles
- 7 Spindles, Req's G321 SW
- 8 Spindles

Multi Spindle Control. **Required if more than one spindle is used per path.**
### Analog Spindle.

Analog Spindle (J860) replaces Serial Spindle (J850). **Having Serial Spindle requires R584.**

### Serial/Analog Spindle Control - includes Multi Spindle Control.

<table>
<thead>
<tr>
<th>Spindles</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Serial and 1 Analog</td>
<td>(R584, J850, J860)</td>
</tr>
<tr>
<td>2 Serial and 1 Analog</td>
<td></td>
</tr>
<tr>
<td>3 Serial and 1 Analog</td>
<td></td>
</tr>
<tr>
<td>4 Serial and 1 Analog</td>
<td>Requires G311 or G321 Basic SW.</td>
</tr>
<tr>
<td>5 Serial and 1 Analog</td>
<td></td>
</tr>
<tr>
<td>6 Serial and 1 Analog</td>
<td>requires G321 SW.</td>
</tr>
<tr>
<td>7 Serial and 1 Analog</td>
<td></td>
</tr>
</tbody>
</table>

### Axis Control Options

- Axis Control by PMC (up to 32 axes) (J804)
- Synchronous Axis Control (up to 12 pairs axes) (J843)
- Controlled Axis Detach (J807)
- Chopping Function (J707)
- Least Input Increment of 0.0001mm, 0.00001", 0.0001deg (J805)
- Dual Position Feedback (J704)
- Stroke Limit External Setting (J845)
- Stored Stroke Check 2 (J840)
- Stored Limit Check Before Move (J749)
- Interpolation type pitch error compensation (S644)
- Bi-directional pitch error compensation (S656)
- Straightness Compensation (J747) (4 points)
- Interpolation Type Straightness Compensation (S639) (128 points)
- Position Switch (J846)
- Rotary Axis Control (J743)

### 5 Axis Features, for paths controlling 5 axes simultaneously.

- High Speed Smooth TCP (R677) includes (S677), (R639), Tool Posture Control (S994), Cutting Point Command (S996) and expansion of axis command in TCP control. Req's AICC I or II.
- Smooth TCP (R639) includes (S677) **Order only one of R677, R639 or S677**
- Tool Center Point Control for 5-axis Machining (S677)
- Tilted Working Plane Indexing Command (R522)
- Cutter Compensation for 5-axis Machining (S667)
- Workpiece Setting Error Compensation (S993)
- 3-dimensional manual feed (S679)

### Operation

- Program Restart (J838)
- Tool Retract & Recover (J823)
- Retrace (J730)
- Manual Handle Retrace (J998)
- Manual Handle Feed 2/3 Units (J836)
- Manual Handle Interruption (J837)
- Change Active Offset Value with Manual Move (S825)
Series 30i-B CNC for Milling

Interpolation

- Unidirectional Positioning (G60) (J812)
- Polar Coordinate Interpolation (J815)
- Cylindrical Interpolation (J816)
- Thread Cutting and Feed per Revolution (J824) (requires Spindle Encoder)
- High Speed Skip (J848)
- Multi Step Skip (J849)
- 3rd, 4th Reference Point Return (J830)
- Normal Direction Control (J813)
- Index Table Indexing (J822) (requires 4th Axis)
- Linear Scale I/F w/ absolute address reference mark (J670). Requires Separate Detector I/F.

Feed Function

- Bell Shaped Acc/Dec After Interpolation for Cutting Feed (J829)
- Inverse Time Feed (J715)
- Al Contour Control I (30 Block Look Ahead) (S807) Choose only S807 or S808
  - Simultaneously Commanded Paths for AICC I, one path (S807#1)
  - Simultaneously Commanded Paths for AICC I (Max.two paths) (S807#2)
  - Simultaneously Commanded Paths for AICC I (Max.four paths) (S807#4)
  - Simultaneously Commanded Paths for AICC I (Max.ten paths) (S807#10)
- Al Contour Control II (200 Block Look Ahead) (S808)
- Machining Condition Selecting Function (S637) Requires AICC I or AICC II.

Grinding Options

- Canned Cycles for Grinding (S974)

Programming

- Optional Block Skip (total 9) (J955)
- Workpiece Coordinate Command (J818)
- Workpiece Coordinate System (G52-G59) (J894)
  - Additional Work Coordinate System, 48 Pairs (J895)
  - Workpiece Coordinate System Preset (J917)
- Optional Angle Chamfering/Corner Rounding (S615)
- Custom Macro (J873)
  - Additional Custom Macro Common Variables (J887), 100 + 500 = 600 Total Only One.
  - Additional Custom Macro Common Variables 1000 (R687), 100 + 1000 = 1100 Total
- Interruption for Custom Macro (J874)
  - Pattern Data Input (J884)
- Peck Drilling Cycle for Small Hole (J896)
- Scaling (J892) Choose only one
- Automatic Corner Override (J891)
- Coordinate System Rotation (J893)
- Programmable Mirror Image (J880)
- Series 15 Tape Format (J882)

Software

- Macro Executor (J888) 96K Reserved for System S/W. Choose only one Macro
- Macro Executor + C-language Executor (J734) 700K Reserved for System S/W.
- FANUC PICTURE Executor (R644) 2M Reserved for System S/W. Compatible with J888.
  - Custom Software Size 512KB (J738#512K) Not with J734 or R644.
  - Custom Software Size 2MB (J738#2M) Not with R644.
  - Custom Software Size 4MB (J738#4M) Choose only one Custom Software Size.
  - Custom Software Size 6MB (J738#6M)
  - Custom Software Size 8MB (J738#8M)
  - Custom Software Size 12MB (J738#12M)
Series 30i-B CNC for Milling

 PMC Options

- PMC with 32K Steps (H990#32K)
- PMC with 64K Steps (H990#64K)
- PMC with 100K Steps (H990#100K)  
  **24,000 Steps Standard, choose only One upgrade.**
- PMC with 300K Steps (H990#300K)

- Multi-path PMC function (3 paths) (R855#3)  
  **One PMC Path Standard.**
- Multi-path PMC function (5 paths) (R855#5)

- PMC symbol, comment, and message capacity expansion (512KB) (R856#512K)
- PMC symbol, comment, and message capacity expansion (1MB) (R856#1M)
- PMC symbol, comment, and message capacity expansion (2MB) (R856#2M)  
  **Only One.**

- Function Block Function (R852)

- I/O Link expansion 2nd Channel w/ A20B-1007-0680 and 1m cable.
- I/O Link expansion 2nd/3rd Channel w/ A20B-1008-0360 and 1m cable.
- Dual Check Safety (S661) Req's I/O Link 1, I/O Link 3rd Channel, or PROFIBUS Master.

| I/O Link 1 will be used for Dual Check Safety. | Check here: |

Auxiliary and Spindle Functions

- 1st Spindle Orientation (J853) (Applies to 1st Spindle per Path)  
  (req's Serial Spindle)
- Constant Surface Speed Control (J855)  
  (requires Spindle Encoder)
- 2nd Miscellaneous Function (B8-digit binary) (J920)
- Rigid Tapping (J828)  
  (Analog Spindle req's Spindle Encoder.)
- Retraction for Rigid Tapping (J664)

See Drives Tab for Spindle Separately Mounted Position Encoder.

Tool Functions and Tool Compensation

- 64 Tool Offset items (J925)  
  Assignable by parameter per path.
- 99 Tool Offset items (J926)
- 200 Tool Offset items (J927)  
  **Choose only one if more that 32 offsets needed.**
- Tool Offset Memory C (D/H code, Geometry/Wear) (J937)
- Tool Life Management (J935)
- Automatic Tool Length Measurement (S618)

Part Program Storage & Editing  
**Total PPS in the system, available to all paths.**

- 512KB Part Program Storage (J946) (Approx 1280m)
- 1MB Part Program Storage (J947) (Approx 2560m)  
  **Choose only one**
- 2MB Part Program Storage + 1000 Stored Part Programs (J948) (J953) (Approx 5120m)
- 4MB Part Program Storage + 1000 Stored Part Programs (J949) (J953) (Approx 10240m)
- 8MB Part Program Storage + 1000 Stored Part Programs (J959) (J953) (Approx 20480m)

- Playback (J879)
- Machine Time Stamp (J964)

FANUC Picture

- FANUC Picture Function (S879)  
  Req's LCD w/ Tch Pnl, deletes J682, not w/ J734/J888/R644
- FANUC Picture Function for non-Touch panel display (S944)  
  Not w/ J734, J888 or R644
### Ethernet or HSSB Options

<table>
<thead>
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<th>Option</th>
<th>Description</th>
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<tr>
<td>Use Embedded Ethernet for BOP2 or Ladder Edit Function</td>
<td>Also works with embedded Ethernet</td>
</tr>
<tr>
<td>Basic Operation Package (BOP2) Function (J816) &amp; CD</td>
<td></td>
</tr>
<tr>
<td>CNC Screen Display Function (J858)</td>
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<tr>
<td>Application Disk for HSSB (K775)</td>
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<td>Application Disk for Ethernet (K776)</td>
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<tr>
<td>CNC Screen Dual Display Function (S884)</td>
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<tr>
<td>CNC Screen Display for 19” Panel (R624)</td>
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<tr>
<td>Enlarged CNC Screen Display for 19” Panel (R673)</td>
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<tr>
<td>CNC Web Server Function (R728)</td>
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<tr>
<td>Ladder Edit Function (J820)</td>
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### Display

<table>
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<th>Option</th>
<th>Description</th>
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<tr>
<td>Graphic Display (J972)</td>
<td>Requires LCD or CNC Screen Display Function</td>
</tr>
<tr>
<td>Software Operator Panel (J960)</td>
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<tr>
<td>Software Operator Panel General Purpose Switch (J961)</td>
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<tr>
<td>Selection of Five Optional Language (R521)</td>
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</tr>
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</table>

### Data Input/Output and Communications

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<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compact Flash Card 128MB, Card Adapter B</td>
<td>Qty 0</td>
</tr>
<tr>
<td>Compact Flash Card 1GB</td>
<td></td>
</tr>
<tr>
<td>2nd Reader/Punch Interface (RS-232) (J901)</td>
<td></td>
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</tbody>
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### Parallel Axis Tracking

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Parallel Axis Tracking (S895)</td>
<td></td>
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</tbody>
</table>

iAdaptS (S898) maintains a constant load during part processing by modifying the feedrate override. This allows for the fastest possible cycle time based on the condition of the tool, part geometry and material variation. By maintaining the manufacturer’s recommended load on the tool, tool life can also be extended. iAdaptS works on the first serial spindle in the first path only. Req's J873, J810, J738#2M, J734.

### Cables

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
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<tr>
<td>Fiber Optic Cable, CNC to LCD, 1m</td>
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<tr>
<td>Fiber Optic Cable, CNC to LCD, 5m</td>
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<tr>
<td>Fiber Optic Cable, CNC to LCD, 20m</td>
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</tr>
<tr>
<td>Fiber Optic Cable, CNC to LCD, 30m</td>
<td></td>
</tr>
<tr>
<td>Fiber Optic Cable, CNC to LCD, 40m</td>
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<tr>
<td>Fiber Optic Cable, CNC to LCD, 50m</td>
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### Different MDI’s

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>Separate Type MDI (ONG) (Vertical)</td>
<td>Replaces Vertical QWERTY in Pkg A</td>
</tr>
<tr>
<td>A02B-0323-C126#M or equivalent 290x220mm</td>
<td>(Do not order with Pkg B)</td>
</tr>
<tr>
<td>Separate Type MDI (ONG) (Horizontal)</td>
<td>Replaces Vertical QWERTY in Pkg A</td>
</tr>
<tr>
<td>A02B-0323-C125#M or equivalent 230x220mm</td>
<td>(Do not order with Pkg B)</td>
</tr>
<tr>
<td>Separate Type MDI QWERTY B</td>
<td>Replaces Vertical QWERTY in Pkg A</td>
</tr>
<tr>
<td>A02B-0303-C129 or equivalent 400x145mm</td>
<td>(Do not order with Pkg B)</td>
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</table>
## Series 30i-B CNC for Milling

<table>
<thead>
<tr>
<th>Product Manuals</th>
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<tbody>
<tr>
<td>Series 30i/31i/32i-B Descriptions,</td>
<td>B-64482EN</td>
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<tr>
<td>Series 30i/31i/32i-Model B Connection Manual Hardware,</td>
<td>B-64483EN</td>
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<tr>
<td>Series 30i/31i/32i-Model B Connection Manual (Function),</td>
<td>B-64483EN-1</td>
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<tr>
<td>Series 30i/31i/32i-Model B Maintenance Manual *,</td>
<td>B-64485EN</td>
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<td>Series 30i/31i/32i-Model B Parameter Manual *,</td>
<td>B-64490EN</td>
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<tr>
<td>Series 30i/31i/32i-B User's Manual Common, Machining Center *,</td>
<td>B-64484EN &amp; -2</td>
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<tr>
<td>Series 30i/31i/32i FAST Ethernet/Data Server Operator's Manual,</td>
<td>B-64014EN</td>
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These Manuals are NOT included on the complimentary product-specific CD. A complimentary copy is shipped with the CNC. Extra hard-copy manuals, if required, may be ordered here.

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<tr>
<td>Series 30i/31i/32i Model B Operation and Maintenance Handbook,</td>
<td>B-64487EN</td>
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**Check here if no I/O is needed.**

Check here if I/O has already been purchased.

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