

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)

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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 A02B-0236-C192 in LCD Mount, A02B-0120-C192 in Stand Alone.
- 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	FS30i/31i/32i-Model B Oper and Maint Handbook
Miscellaneous conn:	Qty 1 A02B-0120-K324	CONNECTOR AND PINS
	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 CNC for Milling

SERIES 30i-B PACKAGE CHOICES

Package A	Package B	
3 Axes 2 Slot Rack LCD Mount Embedded Ethernet 15" LCD Color Touch PMC 24K Steps Serial Spindle CPU Card B2 Basic Function G301 Sep Vert Type MDI Axis Card B12	3 Axes 4 Slot Stand Alone HSSB Embedded Ethernet PMC 24K Steps Serial Spindle CPU Card B2 Basic Function G301 Axis Card B12	<p>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</p> <p>CNC Express will modify the form per your request and return the form to you.</p> <p>G301 => Supports 2 Paths, up to 12 axes (12 per path) and 4 spindles. => A02B-0323-C128 or equivalent</p>
PACKAGE DEPENDENT OPTIONS		
PROFIBUS DP Master PROFIBUS DP Slave HSSB Fast Ethernet Data Server 2nd Fast Ethernet Brd	PROFIBUS DP Master PROFIBUS DP Slave Fast Ethernet Data Server Remove HSSB 10.4" LCD A Color Tch 15.0" LCD Col w/ Tch CNC HSSB Card Sep MDI 2nd Fast Ethernet Brd 3rd Fast Ethernet Brd	<p>Automatic Data Back-up, 3 Sets of Back-up Data, SRAM + PPS</p> <p>USB Memory I/O is available on LCD Mount CNCs & the LCD for S.A.</p>

Shading indicates restrictions, see Package Options for details.

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ORDER FORM

<input type="checkbox"/>	Series 30i-B CNC Express Package A for Milling - 15" LCD Mount w/ Touch Screen.	Pick One
<input type="checkbox"/>	Series 30i-B CNC Express Package B for Milling - 4 Slot Stand Alone. Choose Only 1.	Pick One

Package A Options

<input type="checkbox"/>	PROFIBUS DP Master Board (J311, S731, J562#6552)	Choose no more than two
<input type="checkbox"/>	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 Funct (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	
	2nd Fast Ethernet Board (J147)(Add'l Enet Port) Requires 2 of 3 (S707 or S737,R966,R967).	

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

<input type="checkbox"/>	Manual Guide i (S790)
<input type="checkbox"/>	Manual Guide i Multi Path Function (S786) for 2 paths. Requires (S790).

Package B Options

<input type="checkbox"/>	PROFIBUS DP Master Board (J311, S731, J562#6552)	Choose no more than four
<input type="checkbox"/>	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 Funct (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	
	2nd Fast Ethernet Board (J147)(Add'l Enet Port) Requires 2 of 3 (S707 or S737,R966,R967).	
	3rd Fast Ethernet Board (J147) (Add'l Ethernet Port) Requires (S707 or S737,R966 & R967).	
	Do not use HSSB from Package B. (Removes A02B-0207-J900). For LCD or Ethernet Display.	

<input type="checkbox"/>	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	Only one LCD
<input type="checkbox"/>	15.0" LCD Color w/ Tch Scrn (C092)(400x320mm), J682, Pen & 10m F/O cbl, A02B-0120-K323, A02B-0120-K324	Req MDI below.

<input type="checkbox"/>	CNC Side HSSB Board (incl's A02B-0207-J900, 10m F/O cbl) Requires one Option Slot	
<input type="checkbox"/>	Without Standard CNC Display Unit - HSSB (J389) to Panel i or PC side HSSB, 10m F/O cbl.	
<input type="checkbox"/>	Without Standard CNC Display Unit - Embedded Ethernet (J390) connects to iPendant only	
<input type="checkbox"/>	Ethernet Display Function (R950 & J573#658N) Embedded Ethernet to PC, not for iPendant	
<input type="checkbox"/>	Sep Type MDI (Vert PC Type) (QWERTY) (290x160mm)	A02B-0323-C128 or equivalent
<input type="checkbox"/>	Sep Type MDI (QWERTY Type B)(400x145mm) No 10.4" LCD	A02B-0303-C129 or equivalent
<input type="checkbox"/>	Sep Type MDI (ONG Type) (Vertical) (290x220mm)	A02B-0323-C126#M or equivalent
<input type="checkbox"/>	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.

<input type="checkbox"/>	Manual Guide i (S790)
<input type="checkbox"/>	Manual Guide i Multi Path Function (S786) for 2 paths. Requires (S790).
<input type="checkbox"/>	10.4" Color LCD A w/ Touch Screen does not support "Large Window Animation" in Manual Guide i.

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

<input type="checkbox"/>	G311 Basic S/W for up to 4 paths, 20 controlled axes, 16 per path, and 6 spindles, 4 per path	0
<input type="checkbox"/>	G321 Basic S/W for up to 10 paths, 32 controlled axes, 24 per path, and 8 spindles, 4 per path	

Number of Paths

<input type="checkbox"/>	Two Control Paths	Minimum of 6 Axes
<input type="checkbox"/>	Three Control Paths, requires G311 or G321 Basic Function	Minimum of 9 Axes
<input type="checkbox"/>	Four Control Paths, requires G311 or G321 Basic Function	Minimum of 12 Axes

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<input type="checkbox"/>	Five Control Paths, requires G321 Basic Function	Minimum of 15 Axes
<input type="checkbox"/>	Six Control Paths, requires G321 Basic Function	Minimum of 18 Axes
<input type="checkbox"/>	Seven Control Paths, requires G321 Basic Function	Minimum of 21 Axes
<input type="checkbox"/>	Eight Control Paths, requires G321 Basic Function	Minimum of 24 Axes
<input type="checkbox"/>	Nine Control Paths, requires G321 Basic Function	Minimum of 27 Axes
<input type="checkbox"/>	Ten Control Paths, requires G321 Basic Function	Minimum of 30 Axes

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

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

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

<input type="checkbox"/>	2 Spindles
<input type="checkbox"/>	3 Spindles
<input type="checkbox"/>	4 Spindles
<input type="checkbox"/>	5 Spindles, Requires G311 or G321 Basic SW.
<input type="checkbox"/>	6 Spindles
<input type="checkbox"/>	7 Spindles, Req's G321 SW.
<input type="checkbox"/>	8 Spindles
<input type="checkbox"/>	Multi Spindle Control. Required if more than one spindle is used per path.

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Analog Spindle.

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

Serial/Analog Spindle Control - includes Multi Spindle Control.

- 1 Serial Spindle and 1 Analog Spindle (R584, J850, J860)
- 2 Serial Spindles and 1 Analog Spindle
- 3 Serial Spindles and 1 Analog Spindle
- 4 Serial Spindles and 1 Analog Spindle, Requires G311 or G321 Basic SW.
- 5 Serial Spindles and 1 Analog Spindle
- 6 Serial Spindles and 1 Analog Spindle, requires G321 SW.
- 7 Serial Spindles and 1 Analog Spindle

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)

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Interpolation

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

Feed Function

<input type="checkbox"/>	Bell Shaped Acc/Dec After Interpolation for Cutting Feed (J829)	
<input type="checkbox"/>	2nd Feedrate Override (J810)	
<input type="checkbox"/>	Inverse Time Feed (J715)	
<input type="checkbox"/>	AI Contour Control I (30 Block Look Ahead) (S807)	Choose only S807 or S808
<input type="checkbox"/>	Simultaneously Commanded Paths for AICC I, one path (S807#1)	
<input type="checkbox"/>	Simultaneously Commanded Paths for AICC I (Max.two paths) (S807#2)	
<input type="checkbox"/>	Simultaneously Commanded Paths for AICC I (Max.four paths) (S807#4)	
<input type="checkbox"/>	Simultaneously Commanded Paths for AICC I (Max.ten paths) (S807#10)	
<input type="checkbox"/>	AI Contour Control II (200 Block Look Ahead) (S808)	
<input type="checkbox"/>	Machining Condition Selecting Function (S637) Requires AICC I or AICC II.	

Grinding Options

<input type="checkbox"/>	Canned Cycles for Grinding (S974)	
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Programming

<input type="checkbox"/>	Optional Block Skip (total 9) (J955)	
<input type="checkbox"/>	Polar Coordinate Command (J818)	
<input type="checkbox"/>	Workpiece Coordinate System (G52-G59) (J894)	
<input type="checkbox"/>	Additional Work Coordinate System, 48 Pairs (J895)	
<input type="checkbox"/>	Workpiece Coordinate System Preset (J917)	
<input type="checkbox"/>	Optional Angle Chamfering/Corner Rounding (S615)	
<input type="checkbox"/>	Custom Macro (J873)	
<input type="checkbox"/>	Additional Custom Macro Common Variables (J887), 100 + 500 = 600 Total	Only One.
<input type="checkbox"/>	Additional Custom Macro Common Variables 1000 (R687), 100 + 1000 = 1100 Total	
<input type="checkbox"/>	Interruption for Custom Macro (J874)	
<input type="checkbox"/>	Pattern Data Input (J884)	
<input type="checkbox"/>	Peck Drilling Cycle for Small Hole (J896)	
<input type="checkbox"/>	Scaling (J892)	Choose only one
<input type="checkbox"/>	Automatic Corner Override (J891)	
<input type="checkbox"/>	Coordinate System Rotation (J893)	
<input type="checkbox"/>	Programmable Mirror Image (J880)	
<input type="checkbox"/>	Series 15 Tape Format (J882)	
<input type="checkbox"/>	Macro Executor (J888) 96K Reserved for System S/W.	Choose only one Macro
<input type="checkbox"/>	Macro Executor + C-language Executor (J734) 700K Reserved for System S/W.	
<input type="checkbox"/>	FANUC PICTURE Executor (R644) 2M Reserved for System S/W.	Compatible with J888.
<input type="checkbox"/>	Custom Software Size 512KB (J738#512K)	<i>Not with J734 or R644.</i>
<input type="checkbox"/>	Custom Software Size 2MB (J738#2M)	<i>Not with R644.</i>
<input type="checkbox"/>	Custom Software Size 4MB (J738#4M)	Choose only one Custom Software Size.
<input type="checkbox"/>	Custom Software Size 6MB (J738#6M)	
<input type="checkbox"/>	Custom Software Size 8MB (J738#8M)	
<input type="checkbox"/>	Custom Software Size 12MB (J738#12M)	

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PMC Options

<input type="checkbox"/>	PMC with 32K Steps (H990#32K)	
<input type="checkbox"/>	PMC with 64K Steps (H990#64K)	
<input type="checkbox"/>	PMC with 100K Steps (H990#100K)	24,000 Steps Standard, choose only One upgrade.
<input type="checkbox"/>	PMC with 300K Steps (H990#300K)	
<input type="checkbox"/>	Multi-path PMC function (3 paths) (R855#3)	One PMC Path Standard.
<input type="checkbox"/>	Multi-path PMC function (5 paths) (R855#5)	Choose Only One.
<input type="checkbox"/>	PMC symbol, comment, and message capacity expansion (512KB) (R856#512K)	
<input type="checkbox"/>	PMC symbol, comment, and message capacity expansion (1MB) (R856#1M)	
<input type="checkbox"/>	PMC symbol, comment, and message capacity expansion (2MB) (R856#2M)	Only One.
<input type="checkbox"/>	Function Block Function (R852)	
<input type="checkbox"/>	I/O Link expansion 2nd Channel w/ A20B-1007-0680 and 1m cable.	
<input type="checkbox"/>	I/O Link expansion 2nd/3rd Channel w/ A20B-1008-0360 and 1m cable.	
<input type="checkbox"/>	Dual Check Safety (S661) Req's I/O Link i, I/O Link 3rd Channel, or PROFIBUS Master.	1

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

Auxiliary and Spindle Functions

<input type="checkbox"/>	1st Spindle Orientation (J853) (Applies to 1st Spindle per Path)	<i>(req's Serial Spindle)</i>
<input type="checkbox"/>	Constant Surface Speed Control (J855)	<i>(requires Spindle Encoder)</i>
<input type="checkbox"/>	2nd Miscellaneous Function (B8-digit binary) (J920)	
<input type="checkbox"/>	Rigid Tapping (J828)	<i>(Analog Spindle req's Spindle Encoder.)</i>
<input type="checkbox"/>	Retraction for Rigid Tapping (J664)	
<input type="checkbox"/>	See Drives Tab for Spindle Separately Mounted Position Encoder.	

Tool Functions and Tool Compensation

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

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

<input type="checkbox"/>	512KB Part Program Storage (J946) (Approx 1280m)	
<input type="checkbox"/>	1MB Part Program Storage (J947) (Approx 2560m)	Choose only one
<input type="checkbox"/>	2MB Part Program Storage + 1000 Stored Part Programs (J948) (J953) (Approx 5120m)	
<input type="checkbox"/>	4MB Part Program Storage + 1000 Stored Part Programs (J949) (J953) (Approx 10240m)	
<input type="checkbox"/>	8MB Part Program Storage + 1000 Stored Part Programs (J959) (J953) (Approx 20480m)	
<input type="checkbox"/>	Playback (J879)	
<input type="checkbox"/>	Machine Time Stamp (J964)	

FANUC Picture

<input type="checkbox"/>	FANUC Picture Function (S879) Req's LCD w/ Tch Pnl, deletes J682, not w/ J734/J888/R644	
<input type="checkbox"/>	FANUC Picture Function for non-Touch panel display (S944)	Not w/ J734, J888 or R644

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Ethernet or HSSB Options

<input type="checkbox"/>	Use Embedded Ethernet for BOP2 or Ladder Edit Function	
<input type="checkbox"/>	Basic Operation Package (BOP2) Function (J816) & CD	(Also works w/ embedded Ethernet)
<input type="checkbox"/>	CNC Screen Display Function (J858)	
<input type="checkbox"/>	Application Disk for HSSB (K775)	
<input type="checkbox"/>	Application Disk for Ethernet (K776)	
<input type="checkbox"/>	CNC Screen Dual Display Function (S884)	
<input type="checkbox"/>	CNC Screen Display for 19" Panel í (R624)	19" Panel í requires one of these options
<input type="checkbox"/>	Enlarged CNC Screen Display for 19" Panel í (R673)	
<input type="checkbox"/>	CNC Web Server Function (R728) Reqs Std LCD Disp, No CNC Scrn Disp, No simul iPndnt.	
<input type="checkbox"/>	Ladder Edit Function (J820)	(Also works w/ embedded Ethernet)

Display

<input type="checkbox"/>	Graphic Display (J972)	Requires LCD or CNC Screen Display Function
<input type="checkbox"/>	Software Operator Panel (J960)	
<input type="checkbox"/>	Software Operator Panel General Purpose Switch (J961)	
<input type="checkbox"/>	Selection of Five Optional Language (R521)	

Data Input/Output and Communications

		You may overwrite the QTY fields for qty >1	Qty
<input type="checkbox"/>	Compact Flash Card 128MB, Card Adapter B		0
<input type="checkbox"/>	Compact Flash Card 1GB (suggested for use with Data Server), 2 Card Adapters		0
<input type="checkbox"/>	2nd Reader/Punch Interface (RS-232) (J901)		

Parallel Axis Tracking

<input type="checkbox"/>	Parallel Axis Tracking (S895) is the tracking of the W/Z Zero position when W and Z axis are parallel axes. Activated by G-Code. Applicable to popular Horizontal Boring Machines. Requires J888, J738#512K, J894, J917 & at least 4 axes. Includes DVD and Manual.
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i AdaptS

<input type="checkbox"/>		Check to override required DVD.	<input type="checkbox"/>
<input type="checkbox"/>	i AdaptS (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. i AdaptS works on the first serial spindle in the first path only. Req's J873,J810,J738#2M,J734.		
<input type="checkbox"/>	i AdaptS S/W DVD D75F-0102-PB00	Each MTB/Retrofitter must purchase a DVD once.	
<input type="checkbox"/>	i AdaptS S/W DVD with FANUC Picture (R644). Req's R644 >=J738#6M. D75F-0103-PB00.		

Cables

Optional: Replace 10m cable for LCD ordered with Package B with one of the following:	
<input type="checkbox"/>	Fiber Optic Cable, CNC to LCD, 1m
<input type="checkbox"/>	Fiber Optic Cable, CNC to LCD, 5m
<input type="checkbox"/>	Fiber Optic Cable, CNC to LCD, 20m
<input type="checkbox"/>	Fiber Optic Cable, CNC to LCD, 30m
<input type="checkbox"/>	Fiber Optic Cable, CNC to LCD, 40m
<input type="checkbox"/>	Fiber Optic Cable, CNC to LCD, 50m

Different MDI's

<input type="checkbox"/>	Separate Type MDI (ONG) (Vertical)	Replaces Vertical QWERTY in Pkg A
<input type="checkbox"/>	A02B-0323-C126#M or equivalent 290x220mm	(Do not order with Pkg B)
<input type="checkbox"/>	Separate Type MDI (ONG) (Horizontal)	Replaces Vertical QWERTY in Pkg A
<input type="checkbox"/>	A02B-0323-C125#M or equivalent 230x220mm	(Do not order with Pkg B)
<input type="checkbox"/>	Separate Type MDI QWERTY B	Replaces Vertical QWERTY in Pkg A
<input type="checkbox"/>	A02B-0303-C129 or equivalent 400x145mm	(Do not order with Pkg B)

Series 30i-B CNC for Milling

Product Manuals

<input type="checkbox"/>	Series 30i/31i/32i-B Descriptions,	B-64482EN	0
<input type="checkbox"/>	Series 30i/31i/32i-Model B Connection Manual Hardware,	B-64483EN	0
<input type="checkbox"/>	Series 30i/31i/32i-Model B Connection Manual (Function),	B-64483EN-1	0
<input type="checkbox"/>	Series 30i/31i/32i-Model B Maintenance Manual *,	B-64485EN	0
<input type="checkbox"/>	Series 30i/31i/32i-Model B Parameter Manual *,	B-64490EN	0
<input type="checkbox"/>	Series 30i/31i/32i-B User's Manual Common, Machining Center *,	B-64484EN & -2	0
<input type="checkbox"/>	Series 30i/31i/32i FAST Ethernet/Data Server Operator's Manual,	B-64014EN	0
<input type="checkbox"/>	Manual Guide i Operator's Manuals & Setup Guide,	B-63874EN, -1 & -2	0

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.

<input type="checkbox"/>	Series 30i/31i/32i Model B Operation and Maintenance Handbook,	B-64487EN	0
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Check here if no I/O is needed.

Check here if I/O has already been purchased