

Series 30i -B CNC for Turning
STANDARD FEATURES

Axis Control

Digital Servo Function
1 Controlled Path
2 (up to maximum of 24) Simultaneously Controllable Axes (J801) (J803)
Serial Encoder Interface
Axis Names Selected from X,Y,Z,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)
Linear Interpolation
Circular Interpolation
Dwell (G04)
Threading
Skip Function (G31)
Torque-limit Skip
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
Feed per Revolution
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
Manual Synchronous Feed

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
Setting in Diameter or Radius
Plane Selection (G17, G18, G19)
Rotary Axis Setting
Rotary Axis Rollover
Coordinate System Setting (G50)
Automatic Coordinate System Setting
Coordinate System Shift
Direct Coordinate System Shift Setting
Manual Absolute On/Off
G Code System A
Subprogram Calling
Canned Cycles for Turning
Multiple Repetitive Canned Cycles (G70-G76) (J877)
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)
Constant Surface Speed Control (J855)
Spindle Override 0-254%

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Tool Functions and Tool Compensation

Tool Function - T7+1/T6+2
32 Tool Offsets
Tool Position Offset
Tool Nose Radius Compensation (J930)
Tool Compensation Counter Input
Tool Compensation Measurement Value Input A

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
Actual Spindle Speed/T Code 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 2 A02B-0120-K301	HONDA CONNECTOR
	Qty 1 each A02B-0120-K323 & A02B-0120-K324	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 Turning
ORDER FORM

Series 30i-B CNC Express Package A for Turning - 15" LCD Mount w/ Touch Screen.	Pick One
Series 30i-B CNC Express Package B for Turning - 4 Slot Stand Alone. Choose Only 1.	Pick One

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 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.	
Manual Guide i (S790)	
Manual Guide i Multi Path Lathe (S786) for 2 or 3 paths.	Requires (S790).

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 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.	

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

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

Manual Guide i in Package B - Requires Custom Macro (J873) for full functionality.	
Manual Guide i (S790)	
Manual Guide i Multi Path Lathe (S786) for 2 or 3 paths.	Requires (S790).
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	
G311 Basic S/W for up to 4 paths, 20 controlled axes, 16 per path, and 6 spindles, 4 per path	0
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 4 Axes
Three Control Paths, requires G311 or G321 Basic Function	Minimum of 6 Axes

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Four Control Paths, requires G311 or G321 Basic Function	Minimum of 8 Axes	
Five Control Paths, requires G321 Basic Function	Minimum of 10 Axes	
Six Control Paths, requires G321 Basic Function	Minimum of 12 Axes	
Seven Control Paths, requires G321 Basic Function	Minimum of 14 Axes	
Eight Control Paths, requires G321 Basic Function	Minimum of 16 Axes	
Nine Control Paths, requires G321 Basic Function	Minimum of 18 Axes	
Ten Control Paths, requires G321 Basic Function	Minimum of 20 Axes	

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

3rd Axis	
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	

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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.	

Analog Spindle.

<input type="checkbox"/>	Analog Spindle (J860) replaces Serial Spindle (J850). Having Serial Spindle requires R584.	
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Serial/Analog Spindle Control - includes Multi Spindle Control.

<input type="checkbox"/>	1 Serial Spindle and 1 Analog Spindle (R584, J850, J860)	
<input type="checkbox"/>	2 Serial Spindles and 1 Analog Spindle	
<input type="checkbox"/>	3 Serial Spindles and 1 Analog Spindle	
<input type="checkbox"/>	4 Serial Spindles and 1 Analog Spindle, Requires G311 or G321 Basic SW.	
<input type="checkbox"/>	5 Serial Spindles and 1 Analog Spindle	
<input type="checkbox"/>	6 Serial Spindles and 1 Analog Spindle, Requires G321 Basic SW	
<input type="checkbox"/>	7 Serial Spindles and 1 Analog Spindle	

Axis Control Options

<input type="checkbox"/>	Axis Control by PMC (up to 32 axes) (J804)	
<input type="checkbox"/>	Synchronous Axis Control (up to 12 pairs axes) (J843)	
<input type="checkbox"/>	Controlled Axis Detach (J807)	
<input type="checkbox"/>	Least Input Increment of 0.0001mm, 0.00001", 0.0001deg (J805)	
<input type="checkbox"/>	Dual Position Feedback (J704)	
<input type="checkbox"/>	Stored Stroke Check 2/3 (J840)	
<input type="checkbox"/>	Stored Limit Check Before Move (J749)	
<input type="checkbox"/>	Interpolation type pitch error compensation (S644)	
<input type="checkbox"/>	Bi-directional pitch error compensation (S656)	
<input type="checkbox"/>	Straightness Compensation (J747) (4 points)	
<input type="checkbox"/>	Interpolation Type Straightness Compensation (S639) (128 points)	
<input type="checkbox"/>	Position Switch (J846)	
<input type="checkbox"/>	Rotary Axis Control (J743)	

Operation

<input type="checkbox"/>	Program Restart (J838)	
<input type="checkbox"/>	Tool Retract & Recover (J823)	
<input type="checkbox"/>	Manual Handle Retrace (J998)	
<input type="checkbox"/>	Manual Handle Feed 2/3 Units (J836)	
<input type="checkbox"/>	Manual Handle Interruption (J837)	
<input type="checkbox"/>	Change Active Offset Value with Manual Move (S825)	

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Interpolation

<input type="checkbox"/>	Polar Coordinate Interpolation (J815)	
<input type="checkbox"/>	Cylindrical Interpolation (J816)	<i>(requires 3rd Axis)</i>
<input type="checkbox"/>	Helical Interpolation (J819)	<i>(requires 3rd Axis)</i>
<input type="checkbox"/>	Thread Cutting Retract (J825)	
<input type="checkbox"/>	Variable Lead Threading (G34) (J827)	
<input type="checkbox"/>	Polygon Turning (J817)	
<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"/>	Reference Point Setting with Mechanical Stopper (J729)	
<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)	

Grinding Options

<input type="checkbox"/>	Canned Cycles for Grinding (S974)	<i>(selectable per path with multiple repetitive cycles)</i>
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Programming

<input type="checkbox"/>	Dynamic Switching of diameter/radius specification (G10.9) (S630)	
<input type="checkbox"/>	Workpiece Coordinate System (G52-G59) (J894)	
<input type="checkbox"/>	Workpiece Coordinate System Preset (J917)	
<input type="checkbox"/>	Direct Drawing Dimension Programming (J870)	Only one of these options
<input type="checkbox"/>	Chamfering/Corner Rounding (J875)	can be active per path.
<input type="checkbox"/>	Special G Code B/C (J871)	
<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"/>	Multiple Repetitive Canned Cycles II (J889)	
<input type="checkbox"/>	Canned Cycles for Drilling (J890)	
<input type="checkbox"/>	Mirror Image for Dual Turrets (G68, G69) (J881)	
<input type="checkbox"/>	Coordinate System Rotation (J893)	
<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.	Available with J888/J734.
<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

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)	Choose Only One.
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 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

1st Spindle Orientation (J853) (Applies to 1st Spindle per Path)	<i>(req's Serial Spindle)</i>
Actual Spindle Speed Output (J856)	<i>(requires Spindle Encoder)</i>
2nd Miscellaneous Function (B8-digit binary) (J920)	
Rigid Tapping (J828)	<i>(requires Canned Cycles, Analog Spindle requires Spindle Encoder.)</i>
See Drives Tab for Spindle Separately Mounted Position Encoder.	

Tool Functions and Tool Compensation

64 Tool Offset Pairs (J925)	Assignable by parameter per path.
99 Tool Offset Pairs (J926)	
200 Tool Offset Pairs (J927)	Choose only one if more that 32 offsets needed.
Y-axis Offset (J934)	(3rd or 4th axis required)
Tool Geometry and Wear Compensation (J931)	
Tool Life Management (J935)	
Automatic Tool Compensation (S618)	
Direct Input of Measured Offset (J933)	

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)	

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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	

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 i (R624)	19" Panel i requires one of these options
<input type="checkbox"/>	Enlarged CNC Screen Display for 19" Panel i (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

<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)	

i AdaptS

Check to override required DVD.

<input type="checkbox"/>	<i>i</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>i</i> AdaptS works on the first serial spindle in the first path only. Req's J856,J873,J810,J738#2M,J734.
<input type="checkbox"/>	<i>i</i> AdaptS S/W DVD D75F-0102-PB00 Each MTB/Retrofit must purchase a DVD once.
<input type="checkbox"/>	<i>i</i> AdaptS S/W DVD with FANUC Picture (R644). Req's R644 >=J738#6M. D75F-0103-PB00.

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

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 & Lathe *,	B-64484EN & -1	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	

*This Manual is NOT included on any 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.

<input type="checkbox"/>	Check here if I/O has already been purchased	
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