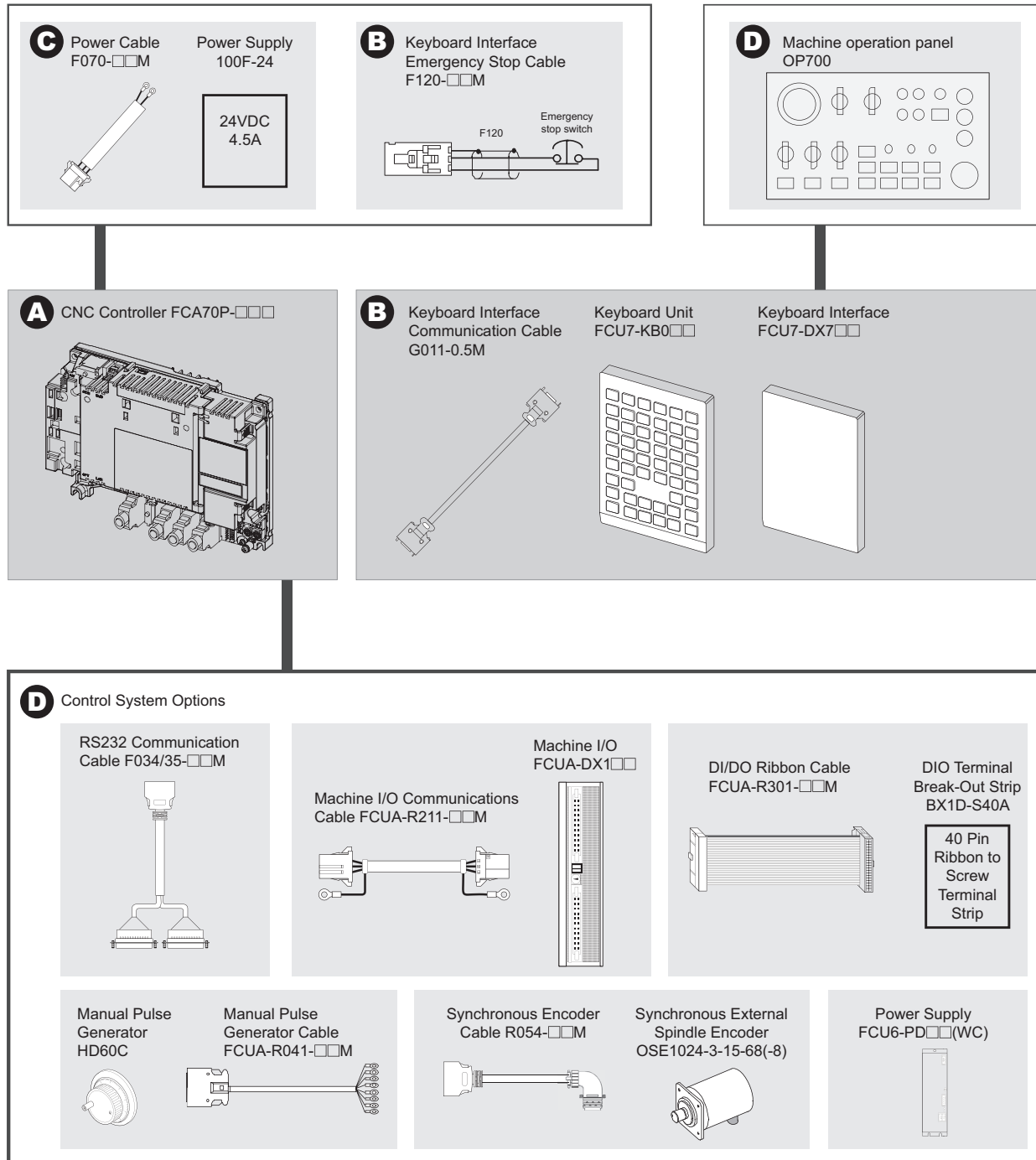


M70V Computerized Numerical Controller

The M70V Series is designed to provide productivity and operating ease. The M70V Series features shortened setup time with easy operability. This dedicated control comes in 2 configurations: Type A, which can control up to 11 axes, 4 simultaneous axes and a maximum PLC program of 32,000 steps; Type B, which can control up to 9 axes, 4 simultaneous axes and a maximum PLC program of 20,000 steps.

General System Diagram for M70V Configuration



M70V CNC Controller

Description	Model Number	Stocked Item	Notes
M70V A TYPE Control For 8.4"	FCA70P-2AVU	S	8.4" display only
M70V B TYPE Control For 8.4"	FCA70P-2BVU	S	8.4" display only
M70V A TYPE Control For 10.4"	FCA70P-4AVU	S	10.4" display only
M70V B TYPE Control For 10.4"	FCA70P-4BVU	S	10.4" display only

Note: Need to choose 1 control from above

Keyboard Unit

Description	Model Number	Stocked Item	Notes
M70V Keyboard For 8.4	FCU7-KB024	S	8.4" display only
M70V Keyboard For 10.4	FCU7-KB044	S	10.4" display only
	FCU7-KB047	S	10.4" vertical keyboard

Note: Need to choose 1 style keyboard from above.

Keyboard Interface

Description	Model Number	Stocked Item	Notes
Keyboard I/F Sink 64/64 W 2 MPG I/F	FCU7-DX710	-	
Keyboard I/F Source 64/64 W 2 MPG I/F	FCU7-DX711	S	
Keyboard /F Sink 96/80 W 2 MPG I/F 1AO	FCU7-DX720	-	
Keyboard I/F Source 96/80 W 2 MPG I/F 1AO	FCU7-DX721	S	
Keyboard I/F Sink 96/96 W 2 MPG IF	FCU7-DX730	-	
Keyboard I/F Source 96/96 W 2 MPG I/F	FCU7-DX731	S	
CC-Link 1CH	FCU7-HN746	S	
Melsec Q I/F	FCU7-HN747	-	
Memory Expansion	FCU7-HN754	-	

Note: Need to select 1 style I/O module for back of keyboard.

CNC Unit to Keyboard Interface Communication Cable

Description	Model Number	Stocked Item	Notes
Communication Cable 0.5M (G011)	G011-0.5M	S	Connects from CG71 on control to CG71 on keyboard

Keyboard Interface Emergency Stop Cable

Description	Model Number	Stocked Item	Notes
Emergency Stop Cable 0.5M	F120-0.5M	S	Qty 1 required
Emergency Stop Cable 1M	F120-1.0M	S	
Emergency Stop Cable 3M	F120-3.0M	S	
Emergency Stop Cable 5M	F120-5.0M	S	
Emergency Stop Cable 10M	F120-10.0M	S	

Power Supply and Cable

CNC +24V Power Cable

Description	Model Number	Stocked Item	Notes
24V Power Cable 0.5M	F070-0.5M	S	Quantity: 1 required
24V Power Cable 1M	F070-1.0M	S	
24V Power Cable 3M	F070-3.0M	S	
24V Power Cable 5M	F070-5.0M	S	
24V Power Cable 10M	F070-10.0M	S	

Power Supply

Description	Model Number	Stocked Item	Notes
24VDC-4.5A Power Supply	LCL150	S	Quantity: 1 required

Control System Options

CNC Unit RS232 Communication Cable

Description	Model Number	Stocked Item	Cable Length
1CH RS-232 SIO Communication Cable	F034-1.0M	-	1.0M
1CH RS-232 SIO Communication Cable	F034-5.0M	S	5.0M
1CH RS-232 SIO Communication Cable	F034-10.0M	S	10.0M
2CH RS-232 SIO Communication Cable	F035-1.0M	-	1.0M
2CH RS-232 SIO Communication Cable	F035-5.0M	-	5.0M
2CH RS-232 SIO Communication Cable	F035-10.0M	-	10.0M

Machine I/O

Description	Model Number	Stocked Item	Notes
RIO SYNC DI/DO=32/32	FCUA-DX100	-	Qty 2 40 pin ribbon connections
RIO SOURCE DI/DO=32/32	FCUA-DX101	-	
RIO SYNC DI/DO=64/48	FCUA-DX110	-	Qty 4 40 pin ribbon connections
RIO SOURCE DI/DO=64/64	FCUA-DX111	S	
RIO SYNC DI/DO=64/48 + AO 1 POINT	FCUA-DX120	-	
RIO SOURCE DI/DO=64/48 + AO 1 PT	FCUA-DX121	S	
RIO SYNC DI/DO=32/32 + AL 4 PT AO 1 PT	FCUA-DX140	-	
RIO SOURCE DI/DO=32/32 + AI 4 PT AO 1 PT	FCUA-DX141	S	

Note: Add one F070-__M cable for each I/O unit. These units use 40 pin ribbon connectors it is recommended to include cables FCUA-R301-__M and terminal strips BX1D-S40A Qty 4 per I/O module.

Machine I/O Communications Cable

Description	Model Number	Stocked Item	Notes
RIO Communication Cable 0.3M	FCUA-R211-0.3M	S	Include 1 FCUA-R211-__M cable for each I/O unit and 1 for connection to the CNC Unit.
RIO Communication Cable 1.0M	FCUA-R211-1.0M	S	
RIO Communication Cable 3.0M	FCUA-R211-3.0M	S	
RIO Communication Cable 5.0M	FCUA-R211-5.0M	S	
RIO Communication Cable 10.0M	FCUA-R211-10.0M	S	

DIO Cable

Description	Model Number	Stocked Item	Notes
DI/DO Ribbon Cable FLT/RND 0.5M	FCUA-R301-0.5M	S	Add Qty 1 BX1D-S40A for each.
DI/DO Ribbon Cable FLT/RND 1.0M	FCUA-R301-1.0M	S	
DI/DO Ribbon Cable FLT/RND 2.0 M	FCUA-R301-2.0M	S	
DI/DO Ribbon Cable FLT/RND 3.0M	FCUA-R301-3.0M	S	
DI/DO Ribbon Cable FLT/RND 5.0M	FCUA-R301-5.0M	S	

DIO Terminal Break-Out Strip

Description	Model Number	Stocked Item	Notes
40 Pin Ribbon to Screw Terminal Strip	BX1D-S40A	S	

Manual Pulse Generator (Handwheel)

Description	Model Number	Stocked Item	Notes
Manual Pulse Generator	HD60C	S	

Manual Pulse Generator Cable

Description	Model Number	Stocked Item	Cable Length
1CH MPG Cable	FCUA-R041-2.0M	S	2.0M
1CH MPG Cable	FCUA-R041-5.0M	S	5.0M
1CH MPG Cable	FCUA-R041-10.0M	S	10.0M

Machine Operation Panel

Description	Model Number	Stocked Item	Notes
M700V Operation Panel	OP700	S	Requires Qty 4 FCUA-R301-__M Requires Qty 1 F070-__M
	FCU7-KB921	S	Standard Specs - Need G460-0.5M Cable
	FCU7-KB922	S	Custom Spcs - Need G460-0.5M Cable
	FCU7-KB926	S	Rotary Switches, E-Stop

Note: Requires either DX unit attached to Keyboard or Remote D-I/O module.

Synchronous External Spindle Encoder

Description	Model Number	Stocked Item	Notes
6000RPM External Spindle Encoder	OSE1024-3-15-68	-	
6000RPM External Spindle Encoder	OSE1024-3-15-68-8	S	

Synchronous External Spindle Encoder Cable

Description	Model Number	Stocked Item	Cable Length
Angle Spin ENC TO NC COMM Cable	R054-3.0M	-	3.0M
Angle Spin ENC TO NC COMM Cable	R054-5.0M	S	5.0M
Angle Spin ENC TO NC COMM Cable	R054-10.0M	S	10.0M

Power Supply

Description	Model Number	Stocked Item	Notes
24VAC 200-230V/3A Power Supply with Connector	FCU6-PD25(WC)	-	Can use instead of 100F-24 Power Supply Unit
24VAC 200-480V/8A Power Supply with Connector	FCU6-PD27(WC)	S	