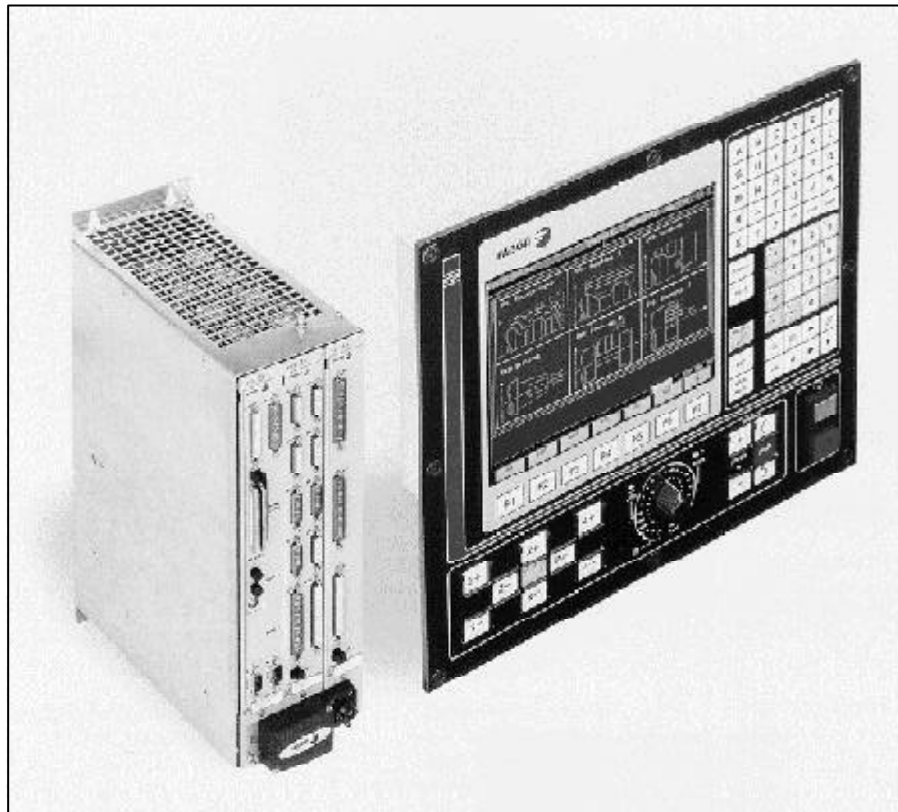


FAGOR CNC 8055 /A /B /C

Ordering Handbook.

Ref. 0103



Fagor Automation, S.Coop.

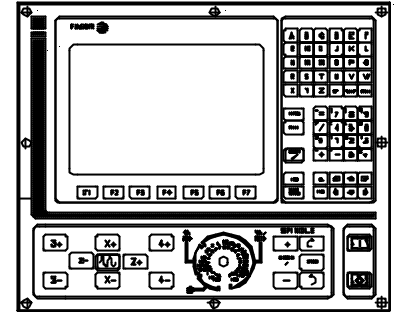
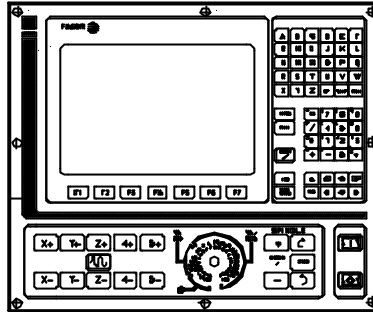
CNC 8055 M, T or GP

Select the 8055 CNC monitor for Mills (M) or Lathes (T).
The 8055 CNC monitor for a General Purpose (GP) machine is the same as that for a Milling machine.

Integrated monitor, keyboard and operator panel

For Mills or General Purpose machines.

For Lathes



Keyboard and 9" monochrome VGA Monitor. Operator Panel included.

MON.50/55M 9-AMB
83390000

MON.50/55T 9-AMB
83390001

Keyboard and 10" Color VGA Monitor. Operator Panel included.

MON.50/55M 10-COL
83420001

MON.50/55T 10-COL
83420003

Keyboard and 11" color LCD VGA Monitor. Operator Panel included.

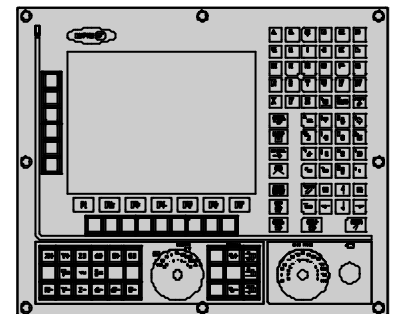
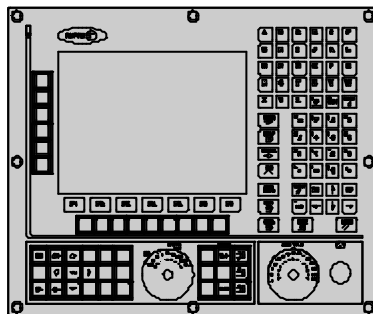
MON.55M 11-LCD
83480101

MON.55T 11-LCD
83480102

New. Integrated monitor, keyboard and operator panel.

For Mills or General Purpose machines.

For Lathes



Keyboard and 11" color LCD VGA Monitor. Operator Panel included.
New look and more keys.

NMON-55M-11-LCD
83480110

NMON-55T-11-LCD
83480111

Compatible with 3.12 software version on.

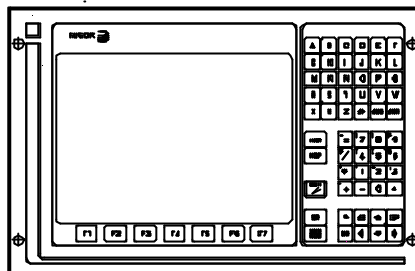
Compatible with 4.11 software version on.

 **New look. Blue background.**

CNC 8055 M, T or GP

Monitor and keyboard
+ Operator panel.

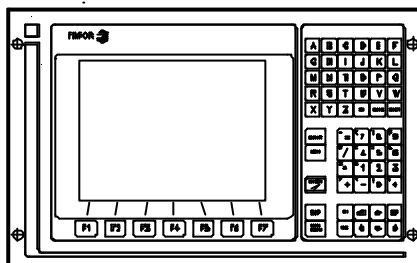
Keyboard and 14" Color VGA Monitor.



For mills, lathes and
General Purpose
machines.

MON.50/55 14-COL
83420004

Keyboard and 11" LCD Monitor.



For mills, lathes and
General Purpose
machines.

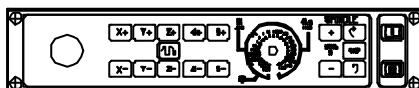
MON 55 11" LCD-Alfa
83480105

Select the Operator panel that goes
with the monitor MON.50/55 14-COL
or MON 55 11" LCD-Alfa.

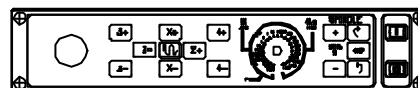
For Mills or General
Purpose machines.

For Lathes

Operator panel with
Emergency button.

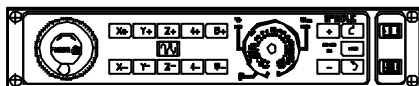


P.MAN.30/50/55M
80300010



P.MAN.30/50/55T
80300011

Operator panel with
handwheel model 100E.



P.MAN.30/50/55MV
80300014



P.MAN.30/50/55TV
80300015

CNC 8055 MC or TC -Conversational-

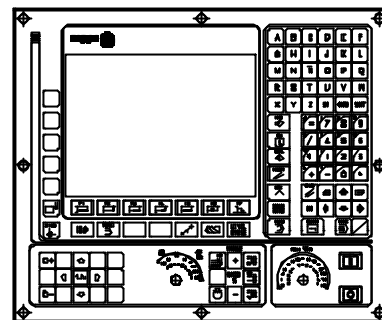
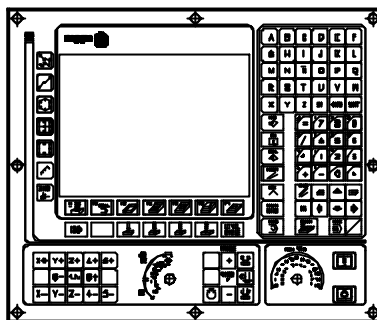
Select the monitor and conversational keyboard for the 8055 CNC. Milling machine (MC), or Turning machine (TC).

Integrated monitor, conversational keyboard and operator panel.

Conversational keyboard with custom keys, 11" VGA color LCD monitor and operator panel, all integrated into a single unit.

For Milling machines.

For Lathes.



MON.55MC 11-LCD
83480103

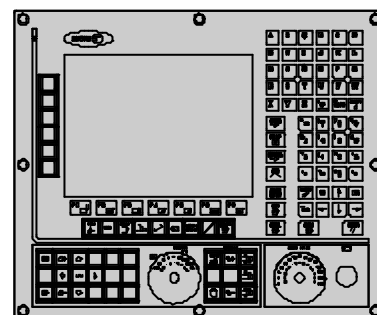
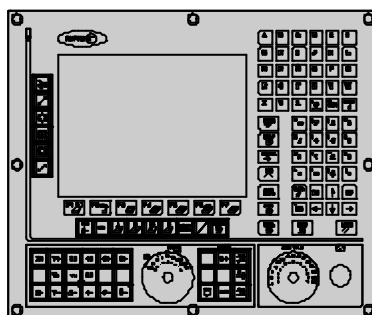
MON.55TC 11-LCD
83480104

New. Integrated monitor, conversational keyboard and operator panel.

Conversational keyboard with custom keys, 11" VGA color LCD monitor and operator panel, all integrated into a single unit.
New look.

For Milling machines.

For Lathes.




NMON-55MC-11-LCD
83480112

NMON-55TC-11-LCD
83480113

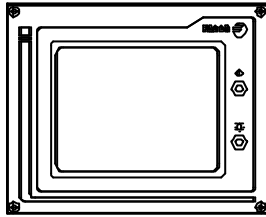
Compatible with 3.12 software version on.

Compatible with 4.11 software version on.

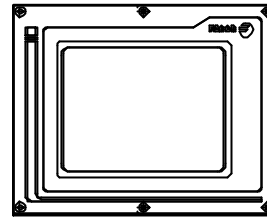
 **New look. Blue background.**

Monitor.

Select the monitor that goes with the keyboard P.MAN.50/55MC, P.MAN.50/55TC, OP-55MC or OP-55TC shown at the next page.

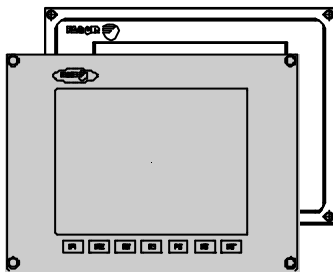


MON.TC/MC 9-AMB
83390002

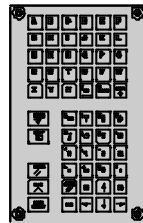


MON.TC/MC 10-COL
83390004

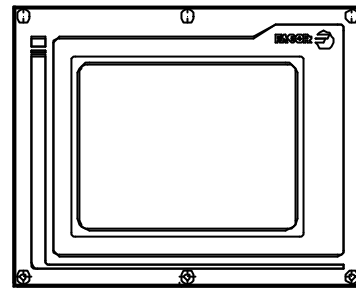
MON.TC/MC 11-LCD
83480100



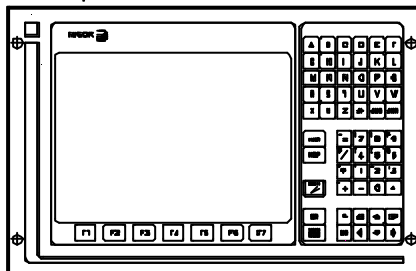
NMON-55-11-LCD
83480114



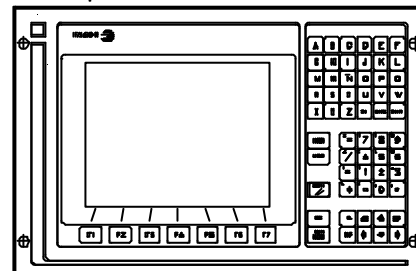
KB-55-ALFA
83540035



MON.TC/MC 14-COL
83390003



MON.50/55 14-COL
83420004



MON 55 11" LCD-Alfa
83480105

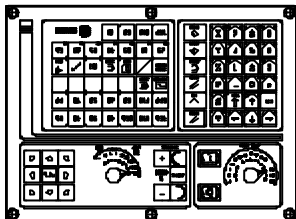
When combining these "MON.50/55 14-COL" and "MON 55 11" LCD-Alfa" monitor with the operator panel, a keyboard switcher (KS 50/55) and an additional "JOG CABLE-xxM" cable are required



New look. Blue background.

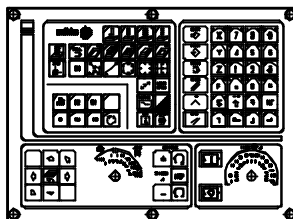
Conversational keyboard and operator panel.

For Lathes and Milling machines.
Conversational Open (*)



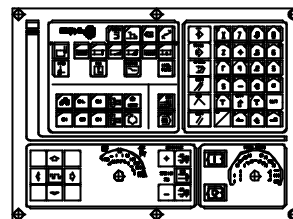
P.MAN.55MCO/TCO
83540030

For Milling machines.



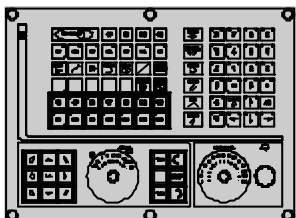
P.MAN.50/55MC
83540020

For Lathes.



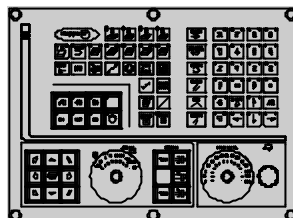
P.MAN.50/55TC
83540002

New look.
For Lathes and Milling machines.
Conversational Open (*)



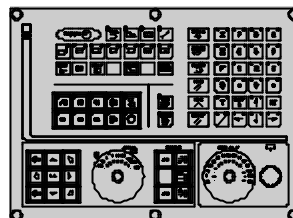
OP-55MCO/TCO
83540040

New look.
For Milling machines.



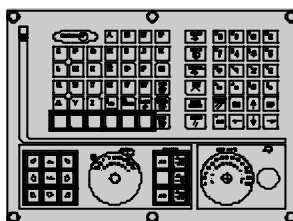
OP-55MC
83540041

New look.
For Lathes.



OP-55TC
83540042


New keyboard.
For Lathes and Milling machines. (*)



OP-55-ALFA
83540043

OP-55-ALFA is compatible with 3.12 and 4.11 software version on.

(*) These operator panels OP-55MCO/TCO and OP-55-ALFA are uncompatible with monitors "MON.TC/MC 9-AMB", "MON.50/55 14-COL" and "MON 55 11" LCD-Alfa".

 **New look. Blue background.**

Select the set of elements making up the Central Unit.

CPU module.

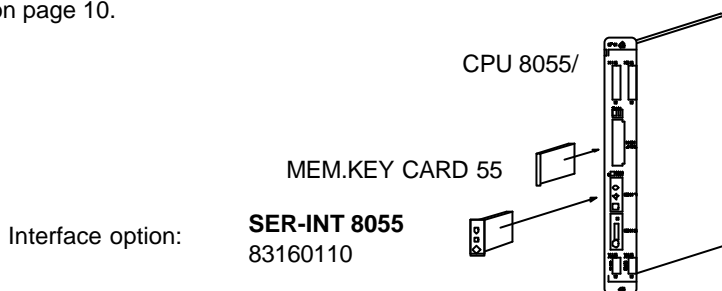
Essential in any system.

- /AB** The CPU module microprocessor runs at 25 MHz.
- /C** The CPU module microprocessor runs at 40 MHz.
- M** Module for CNC on Mills and General Purpose machines.
- T** Module for CNC on Lathes.

CPU 8055/AB-M	83090122
CPU 8055/AB-T	83090123
CPU 8055/C-M	83090124
CPU 8055/C-T	83090125

The various software features configuring the system can be selected according to the table on page 10.

Accessories of the CPU Module.



The MEM.KEY CARD 55 offers the user a non-volatile memory space. This card must store the critical data used for customizing the CNC for that machine, parameters, PLC programs and screens. It customizes the software features by a special code.

The remaining memory space is free for storing User programs.

- 512k / [2 Mbytes (opt.)] **
- 4 Mbytes
- 8 Mbytes
- 16 Mbytes
- 24 Mbytes

MEM.KEY CARD 55/A	83120156
MEM.KEY CARD 55/BC	83120150
MEM.KEY CARD 55/BC (8M)	83120160
MEM.KEY CARD 55/BC (16M)	83120161
MEM.KEY CARD 55/BC (24M)	83120162

/A Basic: 256 k RAM and 512 k Flash (on Mem.Key Card)
 /A Expanded (with Memory Expansion): 1MByte RAM and 2MByte Flash

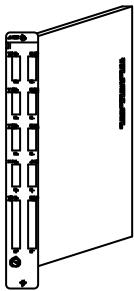
Block Process Time and Total Memory for each combination of CPU Modules and Mem.Key Cards. The BPT has been measured in a three-axis system and under the best conditions for the test.

CPU	MEM.KEY CARD	BPT (ms)	BPT * (ms)	MEMORY RAM
CPU 8055/AB	MEM.KEY CARD 55/A	12	--	256K / [1M opt.]
	MEM.KEY CARD 55/BC	6	2.8	1M
CPU 8055/C	MEM.KEY CARD 55/BC	2.6	1.5	1M

* with the module CPU-TUR 25(512K).

** basic Flash 512 k. For 2Mbytes, option 83240150 (page 10)

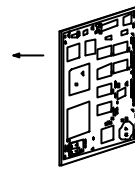
Axes Module.



AXES 8055
83150100

Module to process the signals to control the axes, the spindle and the handwheels
Feedback inputs. Analog inputs.
Digital I/Os: 40-I / 24-O

CPU-Turbo board.
Option

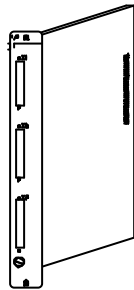


CPU-TUR 25(512K)
80500077

Additional card for shorter block processing time
It can be connected to the Axes and I/O modules.

Incompatible with SER-INT 8055.
Use SERCOS 8055 module.

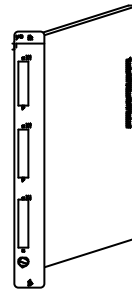
I/O module.
Option



I/O 8055
83210100

Digital I/O expansion
Module. 64-I / 32-O

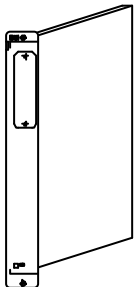
I/O module for Tracing.
Option



I/O TRACING 8055
83220100

Digital I/O expansion module:
32-I / 32-O
Special inputs for tracing probe
model SP2 from Renishaw.

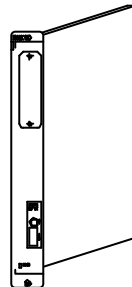
Hard disk Module.
Option



HD 8055
83090150

2.1 Gb
PC based
Hard disk
Module

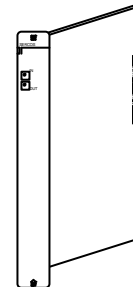
Hard disk and Ethernet Module. Option



HD 8055-E
83090151

2.1 Gb hard disk
and Ethernet
connection
at 10 Mbits/sec.

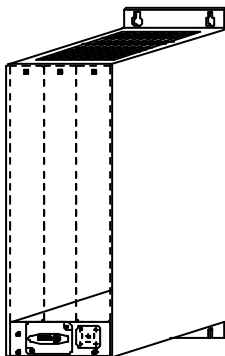
SERCOS Module. Option



SERCOS 8055
83160100

Sercos
interface
Module

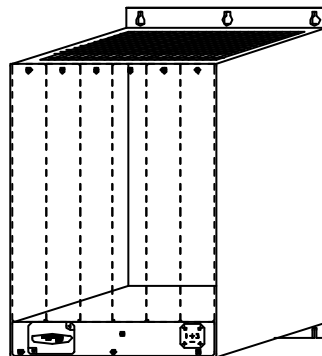
Power supply and box for three modules.



PSB3-8055
83060100

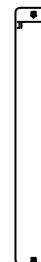
Chassis modules
for the rack set
plus integrated
Power Supply

Power supply and box for six modules.



PSB6-8055
83060101

Front cover.



COVER 8055
83300100

The front of the box
must be completed
with front covers:
"COVER 8055" on
the empty racks.

Software features.

The software integrated into the CPU 8055 module contains all the standard features and possible options. All the features are available in German, Spanish, French, English, Portuguese, Italian and Dutch.

The memory card "MEM.KEY CARD 55" stores the key code. This code may be modified from the Diagnostics mode of the 8055 CNC. Each "MEM.KEY CARD 55" is identified with an exclusive serial number printed on it.

The combination of this serial number with its key code, enables the language and the software options purchased. A new purchasing agreement implying more CNC features will result in a new key code.

Standard features	M	T
Number of simultaneous axes	4	2
Solid graphics		o
Tool radius compensation and canned cycles	o	o

Code	Optional features	M	T	GP
80501000	Up to 7 axes simultaneously. (3)	BC		BC
80501000	Up to 4 axes simultaneously.		ABC	
80501001	Up to 7 axes simultaneously. (3)		BC	
80501002	Solid graphics.	ABC		
80501003	Pockets with islands.	ABC		
80501004	Rigid tapping.	ABC		ABC
80501005	Digitizing (DNC included). (3)	BC		
80501006	Tool life monitoring.	ABC	ABC	
80501007	Probing canned cycles.	ABC	ABC	
80501008	DNC communications.	ABC	ABC	ABC
80501009	Cocom version	ABC	ABC	ABC
80501012	Tracing software (DNC included). (1) (3)	BC		
83240500	5 axes management for RTCP/TCP. (3)	BC		
83270001	"C" axis. (2) (3)		BC	
83270002	Profile editor.	ABC	ABC	ABC
83270003	Tool radius compensation. (GP)			ABC
83240141	MC, Conversational.	ABC		
83240142	TC, Conversational.		ABC	
83240143	MCO, Open conversational.	ABC		
83240144	TCO, Open conversational.		ABC	
83240145	Tangential Control.	ABC	ABC	ABC
83240150	8055/A-1MRAM-2MFLASH	A	A	A
83240140	General Purpose. /B and /C			BC
83240147	General Purpose. /A			A

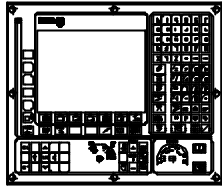
- (1) option requiring the module I/O TRACING 8055
- (1) option requiring the module CPU-TUR 25(512K) except CPU 8055/C
- (2) option requiring also 4-axis or 7-axis options for the lathe.
- (3) options not available with MEM.KEY CARD 55/A

Note: Spindle synchronization, only available on MEM.KEY CARD /B and /C

Select the cables necessary for each configuration.
The next page shows the lengths available for each type of cable.

(Keyboard, Monitor and Operator Panel) + (CPU)

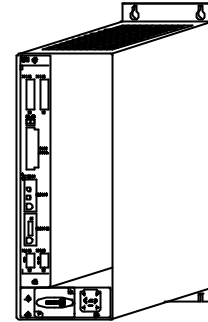
MON.50/55M
MON.50/55T
MON.55M
MON.55T
MON.55MC
MON.55TC
NMON-55MC
NMON-55TC



CAB.MON.50/55-xxM



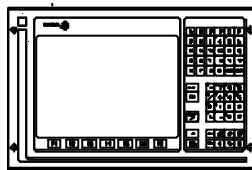
JOG CABLE-xxM



The next page shows the lengths of the cables available and their full references.

(Monitor with keyboard) + (Operator Panel) + (CPU)

MON.50/55 14-COL
MON 55 11" LCD-Alfa

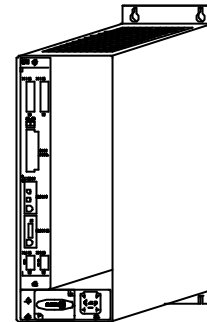
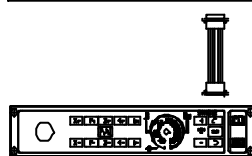


CAB.MON.50/55-xxM



JOG CABLE-xxM

P.MAN.30/50/55M
P.MAN.30/50/55T

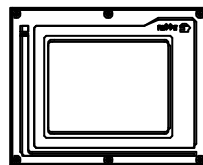


The Operator Panel includes a 45 cm ribbon cable to connect it to the keyboard.

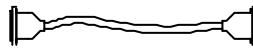
The next page shows the lengths of the cables available and their full references.

(Conversational keyboard and Operator Panel) + (Monitor) + (CPU)

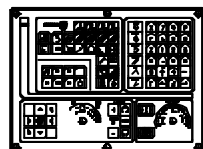
MON.TC/MC 9-AMB
MON.TC/MC 10-COL
MON.TC/MC 14-COL



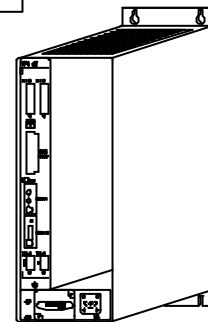
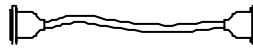
CAB.MON.50/55-xxM



P.MAN.50/55MC
P.MAN.50/55TC
P.MAN.55MCO/TCO
OP-55MC
OP-55TC
OP-55MCO/TCO



JOG CABLE-xxM



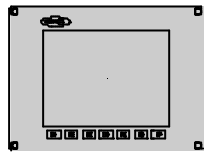
The next page shows the lengths of the cables available and their full references.

(LCD Monitor) + (Alphanumeric keyboard) + (Conversational keyboard) + (CPU)

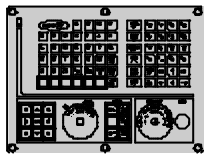
NMON-55-11-LCD

The monitor includes a 15 cm ribbon cable to connect it to the keyboard

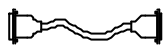
KB-55-ALFA



OP-55-ALFA



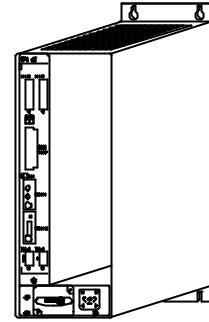
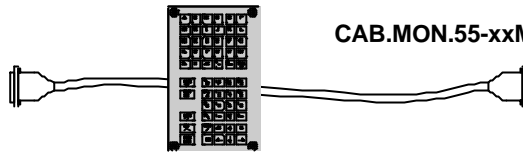
2 x
JOG CABLE-xxM



KS 50/55
83900000

The KS 50/55 is an interface module for switching from one keyboard to another. Reference KS 50/55 includes the 2m cable to connect it to the CPU.

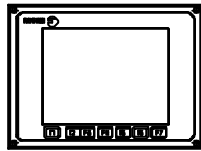
CAB.MON.55-xxM



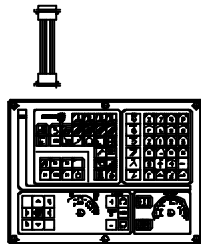
(Conversational keyboard and Operator Panel) + (LCD Monitor) + (CPU)

MON.TC/MC 11-LCD
NMON-55-11-LCD

The monitor includes a 15 cm ribbon cable to connect it to the keyboard



P.MAN.50/55MC
P.MAN.50/55TC
P.MAN.55MCO/TCO
OP-55MC
OP-55TC
OP-55MCO/TCO



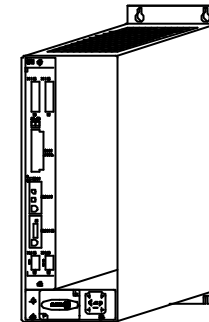
CAB.MON.55-xxM



JOG CABLE-xxM



The available cable lengths and full references are listed on this page.



Cable to connect the CPU
to the monitor.

		Code
5 meters	CAB.MON.50/55-5M	83630020
10 meters	CAB.MON.50/55-10M	83630021
15 meters	CAB.MON.50/55-15M	83630022
20 meters	CAB.MON.50/55-20M	83630023
25 meters	CAB.MON.50/55-25M	83630024

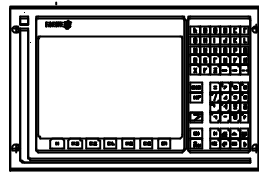
Cable to connect the
CPU to the keyboard

		Code
2 meters	JOG CABLE-2M	83630010
5 meters	JOG CABLE-5M	83630004
10 meters	JOG CABLE-10M	83630005
15 meters	JOG CABLE-15M	83630006
20 meters	JOG CABLE-20M	83630008
25 meters	JOG CABLE-25M	83630026

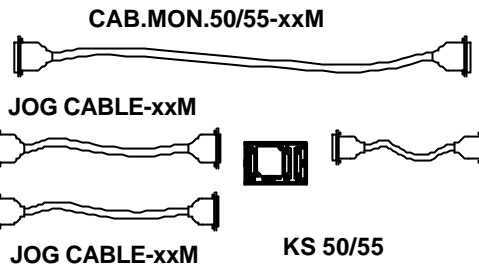
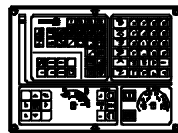
Fagor offers modules KS 50/55, DVD.50/55 and VID.INT.U.50/55 for keyboard switching and duplicating or adapting the video signal.

(Conversational keyboard and Operator Panel) + (Monitor with keyboard) + (CPU)

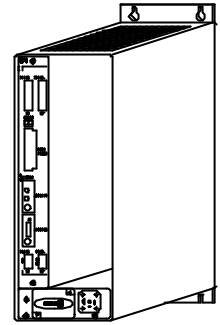
MON.50/55 14-COL
MON 55 11" LCD-Alfa



P.MAN.50/55MC
P.MAN.50/55TC
OP-55MC
OP-55TC



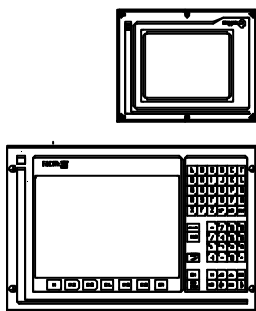
KS 50/55
83900000



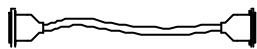
The available lengths for the monitor and keyboard cables are shown on the previous page.

The KS 50/55 is an interface module for switching from one keyboard to another. Reference KS 50/55 includes the 2m cable to connect it to the CPU.

Video signal duplication by means of the "Digital Video Duplicator" board.



CAB.MON.50/55-xxM



CAB.MON.50/55-xxM



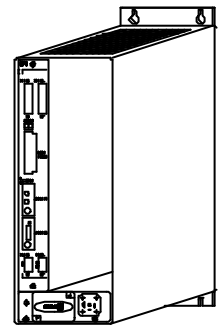
DVD.50/55
83900001



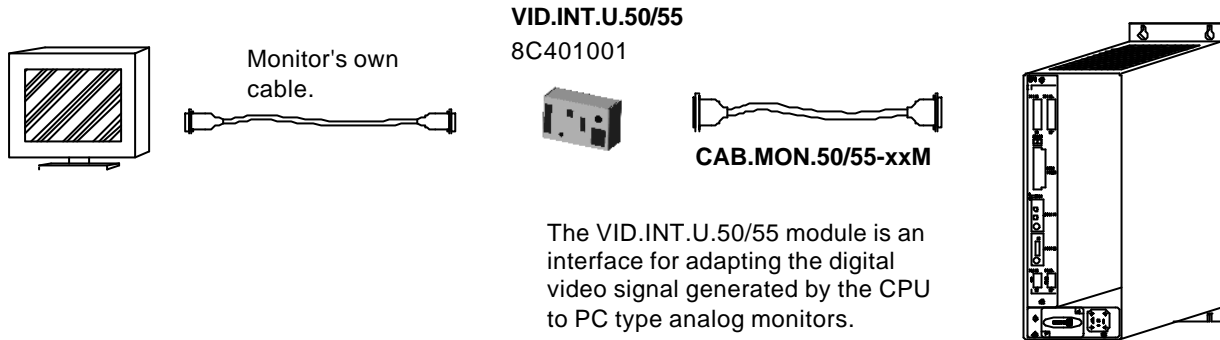
CAB.MON.50/55-xxM



The DVD.50/55 module is an interface for digital video signal duplication



Adapting the digital CNC video signal to analog monitors.

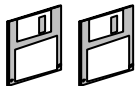


Other system elements.



WGDRAW
83840000

Graphics editing program to create customized operation screens for the Fagor 8055 CNC.



WinDNC
83840001

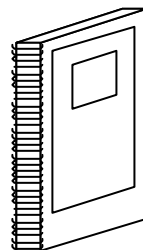
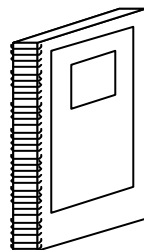
Windows-based DNC communications program for transferring parameter and tool tables, part-programs, customized screens, etc. between a PC and the Fagor 8055 CNC.

For the installation and operation of the CNC, order the OEM and USER manuals respectively. OEM manuals are available in Spanish (CAS) and English (IN). USER manuals are available in Spanish (CAS), English (IN), French (FRA), German (ALE), Italian (ITA) and Portuguese (BRA).

OEM Manual

USER Manual

Manual for the manufacturer of the machine:
- Installation.



Manual for the CNC operator:
- Operation.
- Programming.
- Self-teaching.

Warehouse codes.

ELECTRICAL ELEMENTS

	Monitors		Operator panel		CPU Module		Other modules
83390000	MON.50/55M 9-AMB	80300010	P.MAN.30/50/55M	83090122	CPU 8055/B-M	83150100	AXES 8055
83390001	MON.50/55T 9-AMB	80300011	P.MAN.30/50/55T	83090123	CPU 8055/B-T	80500077	CPU-TUR 25(512K)
83420001	MON.50/55M 10-COL	80300014	P.MAN.30/50/55MV	83090132	CPU 8055/B-M-A	83210100	I/O 8055
83420003	MON.50/55T 10-COL	80300015	P.MAN.30/50/55TV	83090133	CPU 8055/B-T-A	83220100	I/O TRACING 8055
83420004	MON.50/55 14-COL	83540020	P.MAN.50/55MC	83090124	CPU 8055/C-M	83090150	HD 8055
83480101	MON.55M 11-LCD	83540002	P.MAN.50/55TC	83090125	CPU 8055/C-T	83090151	HD 8055-E
83480102	MON.55T 11-LCD	83540030	P.MAN.55MCO/TCO	83090134	CPU 8055/C-M-A	83300100	COVER 8055
83480103	MON.55MC 11-LCD	83540035	KB-55-ALFA	83090135	CPU 8055/C-T-A	83160100	SERCOS 8055
83480104	MON.55TC 11-LCD	83540041	OP-55MC	83160120	CAN-INT 8055		
83480105	MON 55 11" LCD-Alfa	83540042	OP-55TC	83160110	SER-INT 8055		Power Supply Boxes
83390002	MON.TC/MC 9-AMB	83540040	OP-55MCO/TCO	83120156	MEM.KEY CARD 55/A	83060100	PSB3-8055
83390004	MON.TC/MC 10-COL	83540043	OP-55-ALFA	83120150	MEM.KEY CARD 55/BC	83060101	PSB6-8055
83480100	MON.TC/MC 11-LCD			83120160	MEM.KEY CARD 55/BC (8M)		
83390003	MON.TC/MC 14-COL			83120161	MEM.KEY CARD 55/BC (16M)		Other elements
				83120162	MEM.KEY CARD 55/BC (24M)	83900000	KS 50/55
83480110	NMON-55M-11-LCD		Keyboard cable			8C401001	VID.INT.U.50/55
83480111	NMON-55T-11-LCD	83630010	JOG CABLE-2M		Video cable	83900001	DVD.50/55
83480112	NMON-55MC 11-LCD	83630004	JOG CABLE-5M	83630020	CAB.MON.50/55-5M	80500115	DISK DNC 8050 3.5 "
83480113	NMON-55TC 11-LCD	83630005	JOG CABLE-10M	83630021	CAB.MON.50/55-10M		
83480114	NMON-55-11-LCD	83630006	JOG CABLE-15M	83630022	CAB.MON.50/55-15M	83840000	WGDRAW
		83630008	JOG CABLE-20M	83630023	CAB.MON.50/55-20M	83840001	WinDNC
		83630026	JOG CABLE-25M	83630024	CAB.MON.50/55-25M		

MANUALS

NON Conversational				Conversational			
Standard software version		Advanced software version		Standard software version		Advanced software version	
03753400	M.55M OEM (CAS) STA	03753460	M.55M OEM (CAS) AVAN	03753440	M.55MC USER (CAS) STA	03753500	M.55MC USER (CAS) AVAN
03753401	M.55M OEM (IN) STA	03753461	M.55M OEM (IN) AVAN	03753441	M.55MC USER (IN) STA	03753501	M.55MC USER (IN) AVAN
				03753442	M.55MC USER (FRA) STA	03753502	M.55MC USER (FRA) AVAN
				03753443	M.55MC USER (ALE) STA	03753503	M.55MC USER (ALE) AVAN
				03753444	M.55MC USER (ITA) STA	03753504	M.55MC USER (ITA) AVAN
03753410	M.55M USER (CAS) STA	03753470	M.55M USER (CAS) AVAN	03753445	M.55MC USER (BRA) STA	03753505	M.55MC USER (BRA) AVAN
03753413	M.55M USER (ALE) STA	03753473	M.55M USER (ALE) AVAN				
03753414	M.55M USER (ITA) STA	03753474	M.55M USER (ITA) AVAN	03753450	M.55TC USER (CAS) STA	03753510	M.55TC USER (CAS) AVAN
03753415	M.55M USER (BRA) STA	03753475	M.55M USER (BRA) AVAN	03753451	M.55TC USER (IN) STA	03753511	M.55TC USER (IN) AVAN
				03753452	M.55TC USER (FRA) STA	03753512	M.55TC USER (FRA) AVAN
03753420	M.55T OEM (CAS) STA	03753480	M.55T OEM (CAS) AVAN	03753453	M.55TC USER (ALE) STA	03753513	M.55TC USER (ALE) AVAN
03753421	M.55T OEM (IN) STA	03753481	M.55T OEM (IN) AVAN	03753454	M.55TC USER (ITA) STA	03753514	M.55TC USER (ITA) AVAN
				03753455	M.55TC USER (BRA) STA	03753515	M.55TC USER (BRA) AVAN
03753430	M.55T USER (CAS) STA	03753490	M.55T USER (CAS) AVAN				
03753431	M.55T USER (IN) STA	03753491	M.55T USER (IN) AVAN	Conversational Open			
03753432	M.55T USER (FRA) STA	03753492	M.55T USER (FRA) AVAN	Standard software version		Advanced software version	
03753433	M.55T USER (ALE) STA	03753493	M.55T USER (ALE) AVAN	03753520	M.CO USER (CAS) STA	03753540	M.CO USER (CAS) AVAN
03753434	M.55T USER (ITA) STA	03753494	M.55T USER (ITA) AVAN	03753521	M.CO USER (IN) STA	03753541	M.CO USER (IN) AVAN
03753435	M.55T USER (BRA) STA	03753495	M.55T USER (BRA) AVAN	03753522	M.CO USER (FRA) STA	03753542	M.CO USER (FRA) AVAN
				03753523	M.CO USER (ALE) STA	03753543	M.CO USER (ALE) AVAN
				03753524	M.CO USER (ITA) STA	03753544	M.CO USER (ITA) AVAN
				03753525	M.CO USER (BRA) STA	03753545	M.CO USER (BRA) AVAN
				03753526	M.CO USER (HOL) STA	03753546	M.CO USER (HOL) AVAN

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