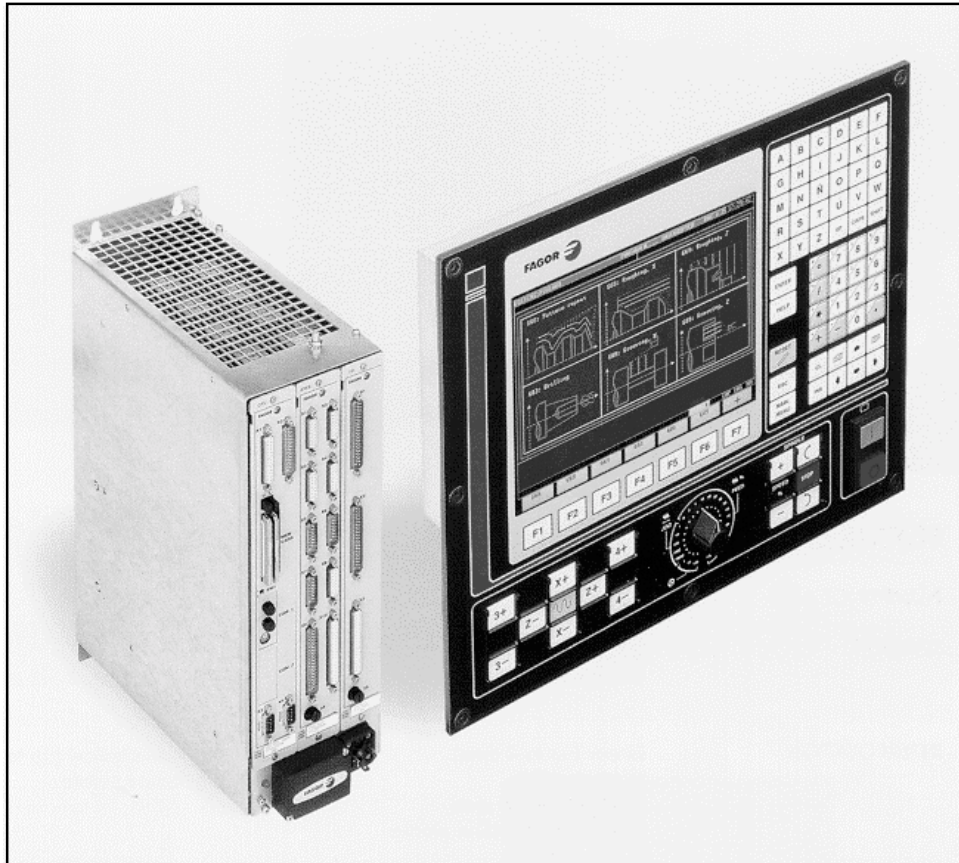


FAGOR CNC 8055

Ordering Handbook.

Ref. 0002



Fagor Automation, S.Coop.

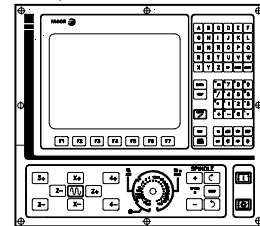
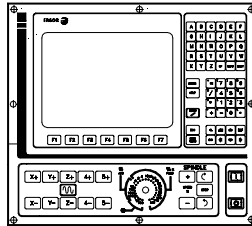
CNC 8055 M, T or GP

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

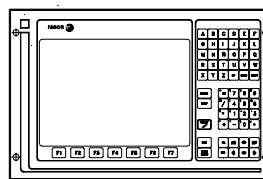
Keyboard and 11" color LCD VGA Monitor
Operator Panel included.

MON.55M 11-LCD
83480101

MON.55T 11-LCD
83480102

14" Color Monitor and keyboard
+ Operator panel.

Keyboard and 14" Color VGA Monitor.



For mills, lathes and General Purpose machines.

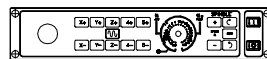
MON.50/55 14-COL
83420004

Select the Operator panel that goes with the monitor MON.50/55 14-COL

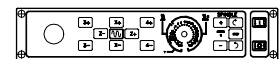
For Mills or General Purpose machines.

For Lathes

Operator panel with Emergency button.

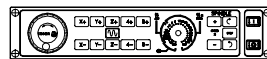


P.MAN.30/50/55M
80300010



P.MAN.30/50/55T
80300011

Operator panel with handwheel model 100E.



P.MAN.30/50/55MV
80300014



P.MAN.30/50/55TV
80300015

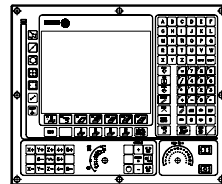
CNC 8055 MC or TC -Conversational-

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

Integrated monitor, conversational keyboard and operator panel.

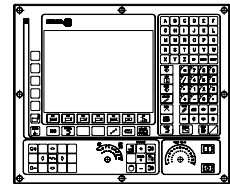
Conversational keyboard with custom keys, 11" VGA color LCD monitor and operator panel, all integrated into a single unit.

For Milling machines.



MON.55MC 11-LCD
83480103

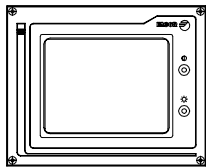
For Lathes.



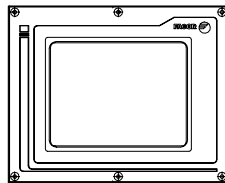
MON.55TC 11-LCD
83480104

Monitor.

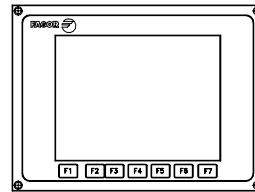
Select the monitor that goes with the keyboard P.MAN.50/55MC or P.MAN.50/55TC shown at the bottom of this page.



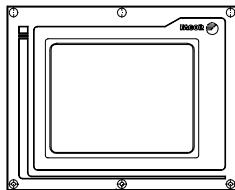
MON.TC/MC 9-AMB
83390002



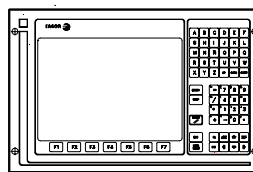
MON.TC/MC 10-COL
83390004



MON.TC/MC 11-LCD
83480100



MON.TC/MC 14-COL
83390003

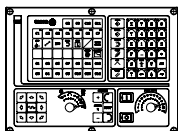


MON.50/55 14-COL
83420004

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

Conversational keyboard and operator panel.

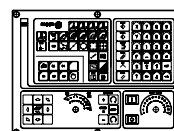
For Lathes and Milling machines.
Conversational Open



P.MAN.55MCO/TCO
83540030

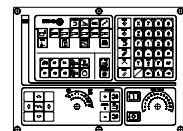
This operator panel MCO/TCO is incompatible with monitors "MON.TC/MC 9-AMB" and "MON.50/55 14-COL"

For Milling machines.



P.MAN.50/55MC
83540020

For Lathes.



P.MAN.50/55TC
83540002

Select the set of elements making up the Central Unit.

CPU module

Essential in any system.

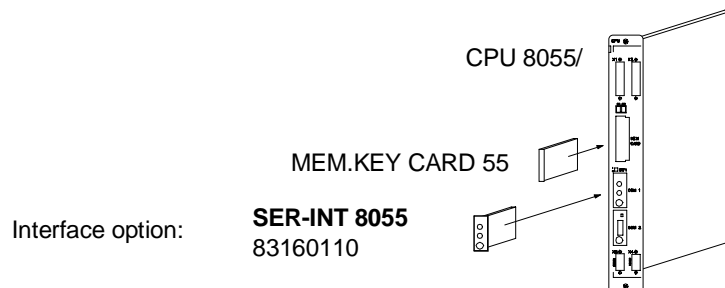
- /B** The CPU module microprocessor runs at 25 MHz.
- /C** The CPU module microprocessor runs at 40 MHz.
- M** Module for CNC on Mills and General Purpose machines.
- T** Module for CNC on Lathes.

| | |
|---------------------|----------|
| CPU 8055/B-M | 83090122 |
| CPU 8055/B-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 6.

Accessories of the CPU Module.



The MEM.KEY CARD 55 offers the user a memory space organized into files. Since it is non-volatile, one must store in it the critical data used for customizing the CNC to that machine. This data consists in machine parameters, PLC programs, screens, customizing the key code for validating the software features and the CNC messages in all languages.

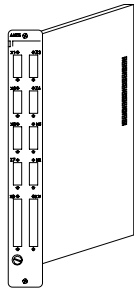
The remaining memory space is free for storing User programs.

The Flash Memory of the standard card version holds 4 Megabytes.

| | | |
|--------------|-----------------------------|----------|
| 4 Megabytes | MEM.KEY CARD 55 | 83120150 |
| 8 Megabytes | MEM.KEY CARD 55(8M) | 83120160 |
| 16 Megabytes | MEM.KEY CARD 55(16M) | 83120161 |
| 24 Megabytes | MEM.KEY CARD 55(24M) | 83120162 |

Axes Module.

Required when Sercos interface is not used.

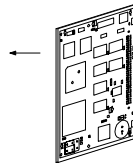


AXES 8055
83150100

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



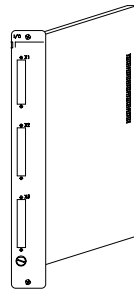
CPU-TUR 25(512K)
80500077

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

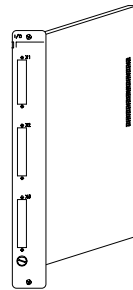


I/O 8055
83210100

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

I/O module for Tracing.

Option

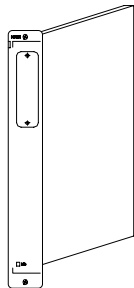


I/O TRACING 8055
83220100

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

Hard disk Module.

Option

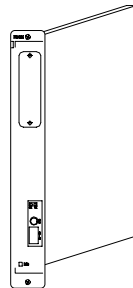


HD 8055
83090150

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.

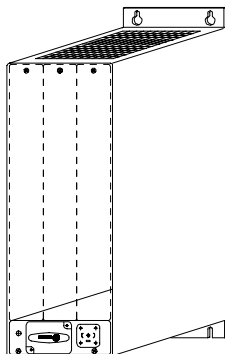
Front cover.



COVER 8055
83300100

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

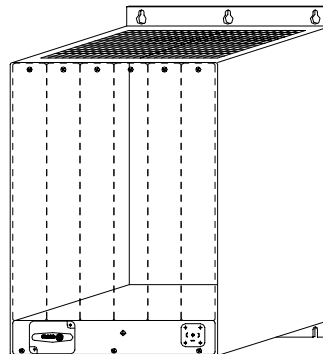
Power supply and box
for three modules.



PSB3-8055
83060100

Chassis module for
the three-rack set plus
integrated Power Supply

Power supply and box
for six modules.



PSB6-8055
83060101

Chassis module for
the six-rack set plus
integrated Power Supply

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 | | ○ |
| Tool radius compensation and canned cycles | ○ | ○ |

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

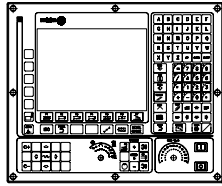
(*) option requiring the installation of modules:
I/O TRACING 8055 and CPU-TUR 25(512K)

(**) option requiring also 4-axis or 7-axis options for the lathe.

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)

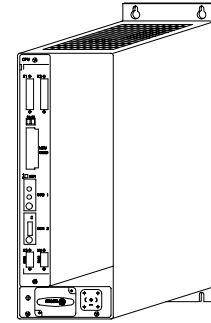
MON.50/55M
MON.50/55T
MON.55M
MON.55T
MON.55MC
MON.55TC



CAB.MON.50/55-xxM



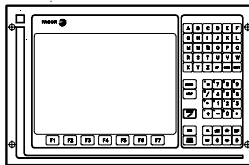
JOG CABLE-xxM



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

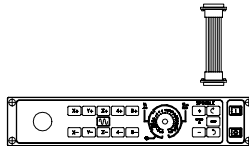


CAB.MON.50/55-xxM



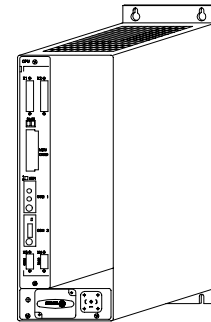
JOG CABLE-xxM

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



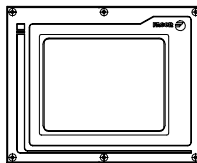
The Operator Panel includes a 45 cm ribbon cable to connect it to the keyboard.

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

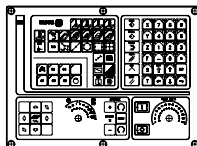


CAB.MON.50/55-xxM

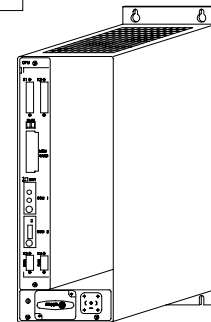


JOG CABLE-xxM

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



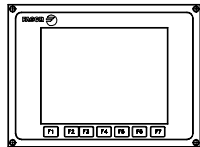
The next page shows the lengths of the cables available and their full references.



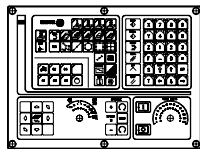
(Conversational keyboard and Operator Panel) + (LCD Monitor) + (CPU)

MON.TC/MC 11-LCD

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



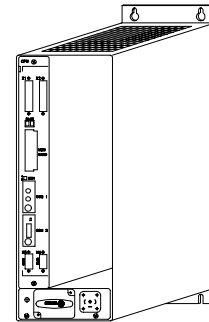
P.MAN.50/55MC
P.MAN.50/55TC
P.MAN.55MCO/TCO



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.

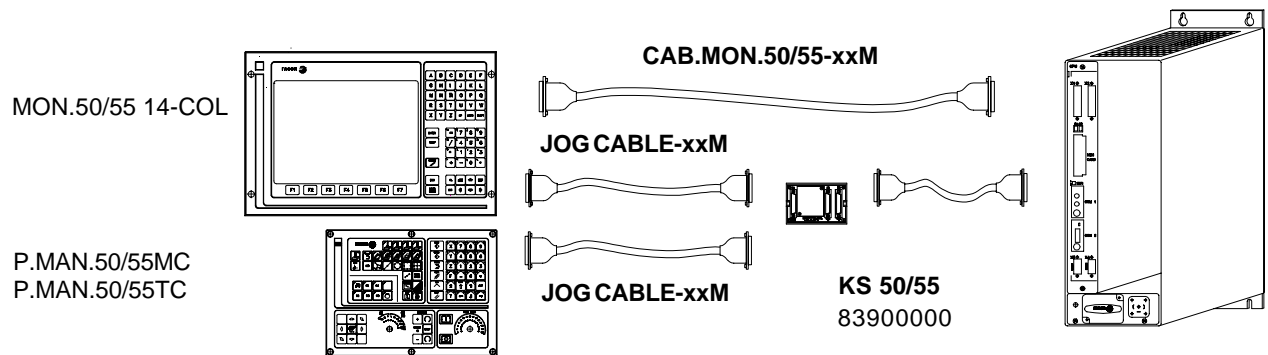
| | | Code |
|-----------|--------------------------|----------|
| 5 meters | CAB.MON.50/55-5M | 83630020 |
| 10 meters | CAB.MON.50/55-10M | 83630021 |
| 15 meters | CAB.MON.50/55-15M | 83630022 |
| 20 meters | CAB.MON.50/55-20M | 83630023 |
| 25 meters | CAB.MON.50/55-25M | 83630024 |

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.

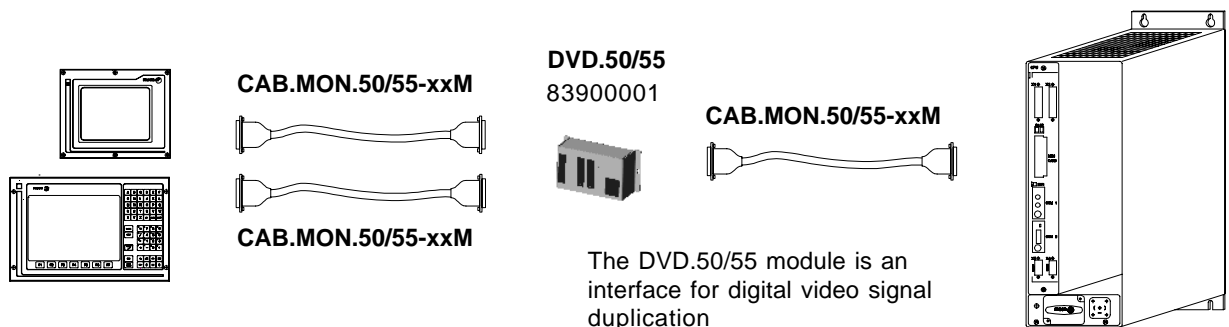
(Conversational keyboard and Operator Panel) + (Monitor with keyboard) + CPU



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

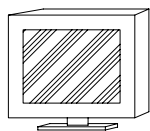
The KS 50/55 is an interface module for switching from one keyboard to another. Reference KS 50/55 includes the 2m cable to connect it to the CPU.

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



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

Adapting the digital CNC video signal to analog monitors.



Monitor's own cable.

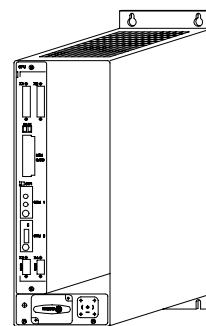


VID.INT.U.50/55
8C401001

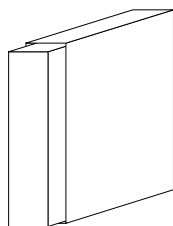


CAB.MON.50/55-xxM

The VID.INT.U.50/55 module is an interface for adapting the digital video signal generated by the CPU to PC type analog monitors.



Other system elements.



DISK DNC 8055 3.5"
80500115

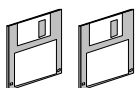
This binder includes:

- DNC communications software in a 3.5" floppy disk.
- Spanish and English installation and operation manuals for this software.



WGDRAW
83840000

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



WinDNC
83840001

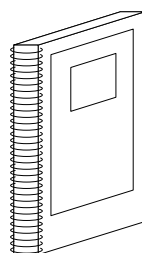
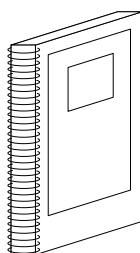
Windows-based DNC communications program for transferring parameter and tool tables, part-programs, customized screens, etc. between a PC and the Fagor 8055 CNC.

For the installation and operation of the CNC, order the OEM and USER manuals respectively. They 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.
etc.



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

Warehouse codes.

ELECTRICAL ELEMENTS

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

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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