

# ตารางเทียบฟังก์ชันของ รุ่น CNC Control รุ่นต่างๆ ของยี่ห้อ มิตซูบิชิ ในปัจจุบัน

บริษัท สยาม เอลมาเทค จำกัด ตัวแทนจำหน่าย CNC Machining Center ยี่ห้อ Mecatron

และ EXTRON.

www.siamelmatechgroup.com

E-mail : ukofset@ksc.th.com

โทรศัพท์ : 02-1596391-3, 0897762912

MITSUBISHI CNC M7 Series / M8 Series (M) Main Specifications List										MTF-1500045-R11	
规格规格(通用加工中心)	Main Specifications for Machine Center	M70V Type B	M80 Type B	M70V Type A	M80 Type A	M80W	M720VS/M720VW	730VS/730VW	M830S/M830W	M850S/M850W	备注 Remarks
<b>1. CPU及控制轴等规格功能</b>											
<b>1. CPU Processor, control axes and related specification</b>											
(1.1) 最大控制轴 (最大NC-SP+PLC轴)	(1.1) Max. control axis (Max. NC+SP+PLC axis)	9	9	11	11	11	12	16	●16 ▲32	●16 ▲32	
(1.2) 最大同时控制轴数(单一系统内)	(1.2) Max. number of simultaneous contouring control axes(in one system)	4	4	4	4	4	4	4	4	8	
(1.3) 最大控制系数	(1.3) Max. number of part systems	1	1	2	2	2	2	2	2	2	
(1.4) 最小控制单位	(1.4) Least control increment	●1mm	●1mm	●1mm	●1mm	●1mm	●1mm	●1mm	●1mm	●1mm	
(1.5) 最大控制容量(字节)	(1.5) Max. memory capacity (1m+0.4KB)	●512KB	●512KB	●512KB	●512KB	●512KB	●512KB	●2048KB	●512KB	●512KB	Number of programs stored up to 1000 in M70V series M70V is limited to M70V 4000 sets.
(1.6) 最大变量数	(1.6) Max. sets of variable command	700	700	700	700	700	700	700	700	700	Variable name #00~#399 400~#999
(1.7) 最大工件坐标系统数	(1.7) Max. workplace coordinate system selection	●54 Sets	●54 Sets	●54 Sets	●54 Sets	●54 Sets	●54 Sets	●54 Sets	●54 Sets	●300 sets	Workplace coordinate system: 004~009 + 004.1 to 004.9 in PM
(1.8) 最大刀具补偿数	(1.8) Max. sets of tool compensation	●400 Sets	●400 Sets	●400 Sets	●400 Sets	●400 Sets	●400 Sets	●400 Sets	●400 Sets	●400 Sets	
(1.9) 最大主轴数	(1.9) Maximal number of Spindles	□2	□2	□2	□2	□2	□4	□4	□4	□4	
(1.10) 最大PLC轴数	(1.10) Maximal number of PLC axis	6	6	6	6	6	6	6	8	8	
(1.11) 最大NC控制轴数	(1.11) Maximal number of NC axis	5	5	8	8	8	8	16	16	16	
(1.12) 系统内最大NC控制轴数	(1.12) Max. number of NC axis in a part system	5	5	8	8	8	8	8	□8	□8	
<b>2. 显示装置</b>											
<b>2. Display unit related specifications</b>											
(2.1) 8.4英寸彩色TFT显示屏	(2.1) 8.4 inch color TFT LCD	□	□	□	□	□	□	X	X	X	
(2.2) 10.4英寸彩色TFT显示屏	(2.2) 10.4 inch color TFT LCD	□	□ (触控)	□	□ (触控)	□ (触控)	□	□	□ (触控)	□ (触控)	
(2.3) 15英寸彩色TFT显示屏	(2.3) 15 inch color TFT LCD	X	□ (触控)	X	□ (触控)	□ (触控)	□	□	□ (触控)	□ (触控)	M70VS can select 15" each with 10 version.
(2.4) 19英寸彩色TFT显示屏	(2.4) 19 inch color TFT LCD	X	X	X	X	□ (触控)	X	X	□ M830W (触控)	□ M850W (触控)	
<b>3. 加工精度提高功能</b>											
<b>3. High speed &amp; high accuracy machining control related functions</b>											
(3.1) 高精度控制模式 (G61P/G61.1)	(3.1) High accuracy control (G61P/G61.1)	●	●	●	●	●	●	●	●	●	
(3.2) 高速高精度控制模式 I (G05.1 Q1)	(3.2) High speed & high accuracy machining control mode 1 (G05.1 Q1)	●(16.8KPPM)	●(33.7KPPM)	●(16.8KPPM)	●(33.7KPPM)	●(33.7KPPM)	●(16.8KPPM)	●(33.7KPPM)	●(67.5KPPM)	●(67.5KPPM)	MPM into Stock per Minute
(3.3) 高速高精度控制模式 II (G05.1 Q2)	(3.3) High speed & high accuracy machining control mode 2 (G05.1 Q2)	X	●C3 (67.5KPPM)	●(33.7KPPM)	●(67.5KPPM)	●(67.5KPPM)	●(168KPPM)	●(168KPPM)	●(168KPPM)	●(168KPPM)	
(3.4) 高速高精度控制模式 III (G05.1 Q3)	(3.4) High speed & high accuracy machining control mode 3 (G05.1 Q3)	X	X	X	●(135KPPM)	●(135KPPM)	X	X	●(270KPPM)	●(270KPPM)	
(3.5) SSS(超光滑表面)控制	(3.5) SSS control (Super Smooth Surface)	X	●	▲H/W	●	●	●(67.5KPPM)	●(168KPPM)	●(270KPPM)	●(270KPPM)	Parameter #008 001 001 (G05.1 Q3) 0010001 function is required. Required H/C222 system at the same time (high accuracy+SS)
(3.6) 圆角平滑控制	(3.6) Corner Smooth control	X	●	X	●	●	X	X	●	●	
(3.7) 公差控制	(3.7) Tolerance Control	X	●	X	●	●	X	X	●	●	
(3.8) 可变加速度插补前加速/减速	(3.8) Variable acceleration Pre-interpolation Acceleration/Deceleration	X	X	X	X	X	X	X	▲	▲	
(3.9) 弦齿插补	(3.9) Spline interpolation	X	X	●	●	●	●	●	●	●	
(3.10) 弦齿插补2	(3.10) Spline interpolation2	X	X	X	●	●	X	X	●	●	
(3.11) NURBS插补	(3.11) NURBS interpolation	X	X	X	X	X	X	X	▲	▲	3091000 function is required.
(3.12) 最大预读数据	(3.12) Max. blocks in pre-read buffer	●368 (G05.1 Q1)	●337 (G05P1000)	●337 (G05P1000)	●1350 (G05P2000)	●1350 (G05P2000)	●675 (G05P1000)	●1680 (G05P1000)	●2700 (G05P2000)	●2700 (G05P2000)	

Elmotech Co., Ltd.

Elmotech Co., Ltd.

MITSUBISHI CNC M7 Series / M8 Series (M) Main Specifications List

MTF-1500045-R11

重點規格(適用加工中心機)	Main Specifications for Machine Center	M70V Type B	M80 Type B	M70V Type A	M80 Type A	M80W	M720VS/M720VW	730VS/M730VW	M830S/M830W	M850S/M850W	備註 Remarks
(3.13) 快速越位單面疊	(3.13) Rapid traverse block overlap	X	●	X	●	●	X	X	●	●	
(3.14) 前置IC卡數據傳輸模式	(3.14) Front IC card mode (same as Data Server)	CF	SD	CF	SD	SD	M720VS CF M720VW PGM/CA	M730VS CF M730VW PGM/CA	M830S SD M830W SD	M850S SD M850W SD	Editing programs in IC card is available.
(3.15) 高速程式用數據(DS) - NC本體	(3.15) High-speed Program Server in NC Unit (Data Server)	X	●	X	●	●	● M720VW	● M730VW	●	●	Editing programs in data server is available.
(3.16) 硬碟直接傳輸模式	(3.16) Hard disk mode	X	X	X	X	X	● M720VW	● M730VW	X M830S ● M830W of act	X M850S ● M850W of act	Editing programs in hard disk is available.
(3.17)即時調整	(3.17)Real time Tuning	X	X	X	●	●	X	X	●	●	
<b>4.語言顯示及圖形檢查功能</b>											
<b>4. Language &amp; graphic related functions</b>											
(4.1) 多語言直讀顯示(漢中/英中/英/日/德/法/意/葡/俄/荷/瑞/丹/西/泰/越/印/馬來/菲/印/越/泰/越/印/馬來/菲)	(4.1) Display language selection (m.c.v.a. 中/漢,日,英,德,法,意,葡,俄,荷,瑞,丹,西,泰,越,印,馬來,菲)	□ 17	□ 17	□ 17	□ 17	□ 17	□ 17	□ 17	□ 17	□ 17	M70V/M720V series English + additional two (Subtotal)
(4.2) 3D實體檢查	(4.2) 3D solid graphic and program check	X	●	●	●	●	●	●	●	●	
(4.3) 2D圖形檢查及檢查	(4.3) 2D graphic check and trace	●	●	●	●	●	●	●	●	●	
<b>5.操作及程式相關支援功能</b>											
<b>5. Operation and programming support related functions</b>											
(5.1) 工件直徑位置及旋轉量(直/孔/圓/錐/球/球/球/球)	(5.1) Workpiece position measurement (Surface/Hole/Width/Rotation)	●	●	●	●	●	●	●	●	●	
(5.2) 緩衝器修正	(5.2) Buffer correction	●	●	●	●	●	●	●	●	●	
(5.3) 手動速度指令	(5.3) Manual speed command	●	●	●	●	●	●	●	●	●	Advanced design is required by machinist tool builders.
(5.4) 斷刀後重新啟動的緊急停止再啟動	(5.4) Program restart easily after power down or tool's broken	●	●	●	●	●	●	●	●	●	Press "Reset" key to restart easily.
(5.5) 比例縮放(G50/G51)	(5.5) Scaling (G50/G51)	●	●	●	●	●	●	●	●	●	
(5.6) 旋轉複製 - 旋轉/G68/G69及參數	(5.6) Coordinate rotation by G program (G68/G69) & parameter	●	●	●	●	●	●	●	●	●	
(5.7) 旋轉複製 - 參數/G鏡像/G50/G51/G51.1/外部鏡像	(5.7) Mirror image by parameter, G code and external mirror	●	●	●	●	●	●	●	●	●	Parameter # 4311, M99, M99.2
(5.8) 螺紋加工/深孔加工	(5.8) Threading / tapping cycle / Deep-hole tapping cycle	●	●	●	●	●	●	●	●	●	Select by parameter #1272 bit 4
(5.9) 螺紋/圓錐插補(G02.1/G03.1)	(5.9) Spiral/Conical interpolation (G02.1/G03.1)	X	X	●	●	●	●	●	●	●	
(5.10) 極座標指令(G15/G16)	(5.10) Polar coordinate command (G15/G16)	●	●	●	●	●	●	●	●	●	
(5.11) 極座標插補(G12.1/G13.1)	(5.11) Polar coordinate interpolation (G12.1/G13.1)	X	X	X	X	X	●	●	●	●	
(5.12) 圓錐插補(G17~G19/G02/G03)	(5.12) Conical interpolation (G17~G19/G02/G03)	●	●	●	●	●	●	●	●	●	
(5.13) 傾斜面加工(G68.2/G53.1)	(5.13) Inclined surface machining (G68.2/G53.1)	X	X	X	●	●	▲	▲	▲	▲	
(5.14) G00進給速度指定(F)	(5.14) G00 Feedrate Designation (F Command)	X	X	X	●	●	X	X	●	●	
(5.15) 手動速度限制	(5.15) Manual Speed Clamp	X	●	X	●	●	X	X	●	●	
(5.16) 三次元手動進給	(5.16) 3-dimensional Manual feed	X	X	X	●	●	●	●	●	●	

Elmotech Co., Ltd.

Elmotech Co., Ltd.

Elmotech Co., Ltd.

MITSUBISHI CNC M7 Series / M8 Series (M) Main Specifications List

MTF-1500045-R11

重點規格(適用加工中心機)	Main Specifications for Machine Center	M70V Type B	M80 Type B	M70V Type A	M80 Type A	M80W	M720VS/M720VW	730VS/M730VW	M830S/M830W	M850S/M850W	備註 Remarks
(5.17) R-Navii	(5.17) R-Navii	X	X	X	●	●	▲	▲	●	●	
(5.18) 手動任意單行(プログラムチェック機能)	(5.18) Manual Arbitrary Reverse Run (Program Check Operation)	X	●	X	●	●	X	X	● A1	● A1	
(5.19) 刀尖控制	(5.19) Tool center point control	X	X	X	● CO支援四軸	● CO支援四軸	X	X	● CO支援四軸	●	
(5.20) 3D干涉檢查	(5.20) 3D machine interference check	X	X	X	X	X	X	X	▲ CO	▲ CO	
(5.21) 工具軸方向工具長度修正	(5.21) Tool length compensation along the tool axis	X	X	X	X	X	X	X	●	●	
(5.22) 工具手動補正及插入	(5.22) Tool handle feed & interruption	X	X	X	X	X	X	X	●	●	
(5.23) 三次元刀鼻補正	(5.23) -dimensional tool radius compensation	X	X	X	X	X	●	●	● B0	●	
(5.24) 工件安裝位置誤差修正	(5.24) Workpiece installation error compensation	X	X	X	X	X	X	X	X	●	
<b>6.維護功能及其他相關功能</b>											
<b>6. Maintenance &amp; others related functions</b>											
(6.1) USB記憶	(6.1) USB memory I/F	●	●	●	●	●	●	●	●	●	
(6.2) 乙太網路介面	(6.2) Ethernet Interface	● 1	● 2	● 1	● 2	● 2	● 1	● 1	● 2	● 2	
(6.3) NC-Explorer (遠端資料傳輸軟體)	(6.3) NC-Explorer (Data transfer tool)	●	●	●	●	●	●	●	●	●	After R1 version can access M7/M8 CNC Explorer.
(6.4) 操作及G碼即時指導	(6.4) Operation & G-Code guidance	●	●	●	●	●	●	●	●	●	
(6.5) 警告及參數即時指導	(6.5) Alarm & Parameter guidance	●	●	●	●	●	●	●	●	●	
(6.6) 簡單對程式機	(6.6) Simple programming	●	●	●	●	●	●	●	●	●	
(6.7) NC資料備份(手動/自動)	(6.7) NC data backup (Automatic & Manual)	Navii-Mill	Navii-Mill	Navii-Mill	Navii-Mill	Navii-Mill	Navii-Mill	Navii-Mill	Navii-Mill	Navii-Mill	
(6.8) 客製化螢幕顯示機	(6.8) Menu selection	●	●	●	●	●	●	●	●	●	The order of main menu on Monitor Setup and Edit screens can be rearranged. Parameters #4312, #4351 to #4353, #4355 to #4358, and #4360 to #4363.
(6.9) MES介面程式庫	(6.9) MES Interface Library	X	●	X	●	●	X	X	●	●	
(6.10) EcoMonitorLight連接機	(6.10) EcoMonitorLight Connection	X	●	X	●	●	X	X	●	●	
<b>7.傳動及主軸驅動系統</b>											
<b>7. Servo and spindle drive system</b>											
(7.1) 控制訊號傳輸的通訊方式	(7.1) Communication type between controller and drives	Optical	Optical	Optical	Optical	Optical	Optical	Optical	Optical	Optical	MT Servo Motor: C100/C1000/M Series MFS-6041 MFA Series MFA Series
(7.2) 伺服電機轉速的指定範圍 (H Series)	(7.2) Encoder specification of servo motor (H Series)	3000rpm 3000rpm	3000rpm 3000rpm	3000rpm 3000rpm	3000rpm 3000rpm	3000rpm 3000rpm	● 3000rpm ▲ 18000rpm	● 3000rpm ▲ 18000rpm	● 3000rpm ▲ 18000rpm	● 3000rpm ▲ 18000rpm	
(7.2) 伺服電機轉速的指定範圍 (IG Series)	(7.2) Encoder specification of servo motor (IG Series)	-	1000rpm 4000rpm	-	1000rpm 4000rpm	1000rpm 4000rpm	-	-	● 4000rpm ▲ 17000rpm	● 4000rpm ▲ 17000rpm	
(7.3) 電機軸力軸下防止機能	(7.3) Vertical axis drop prevention (Anti-drop)	●	●	●	●	●	●	●	●	●	Advanced parameter setup is required by machine tool builders.

Elmotech Co., Ltd.

Elmotech Co., Ltd.

Elmotech Co., Ltd.

規格如有變更,恕不另行通知。其他廠牌之資訊僅供參考,請與機器供應商洽詢。此規格之變更,恕不另行通知。  
 Specifications are subject to change without notice. The information of other brand are for reference only, please contact with machine supplier for the detail.  
 此規格如有變更,恕不另行通知。其他廠牌之資訊僅供參考,請與機器供應商洽詢。此規格之變更,恕不另行通知。  
 Specifications are subject to change without notice. The information of other brand are for reference only, please contact with machine supplier for the detail.