



MV

VERTICAL Machining Center

MV1100S / MV1300S / MV1750S / MV1100D / MV1300D / MV1750D (BOX WAY MACHINES)



台灣力得衛宇龍科技股份有限公司
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Swing arc ATC with 32 tools position (MV1750S-STD)



12000 rpm direct drive spindle (OPT)



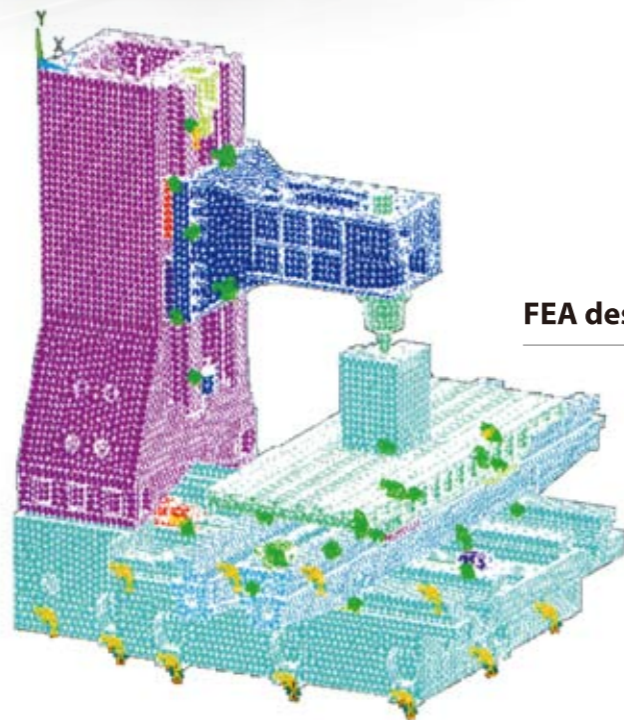
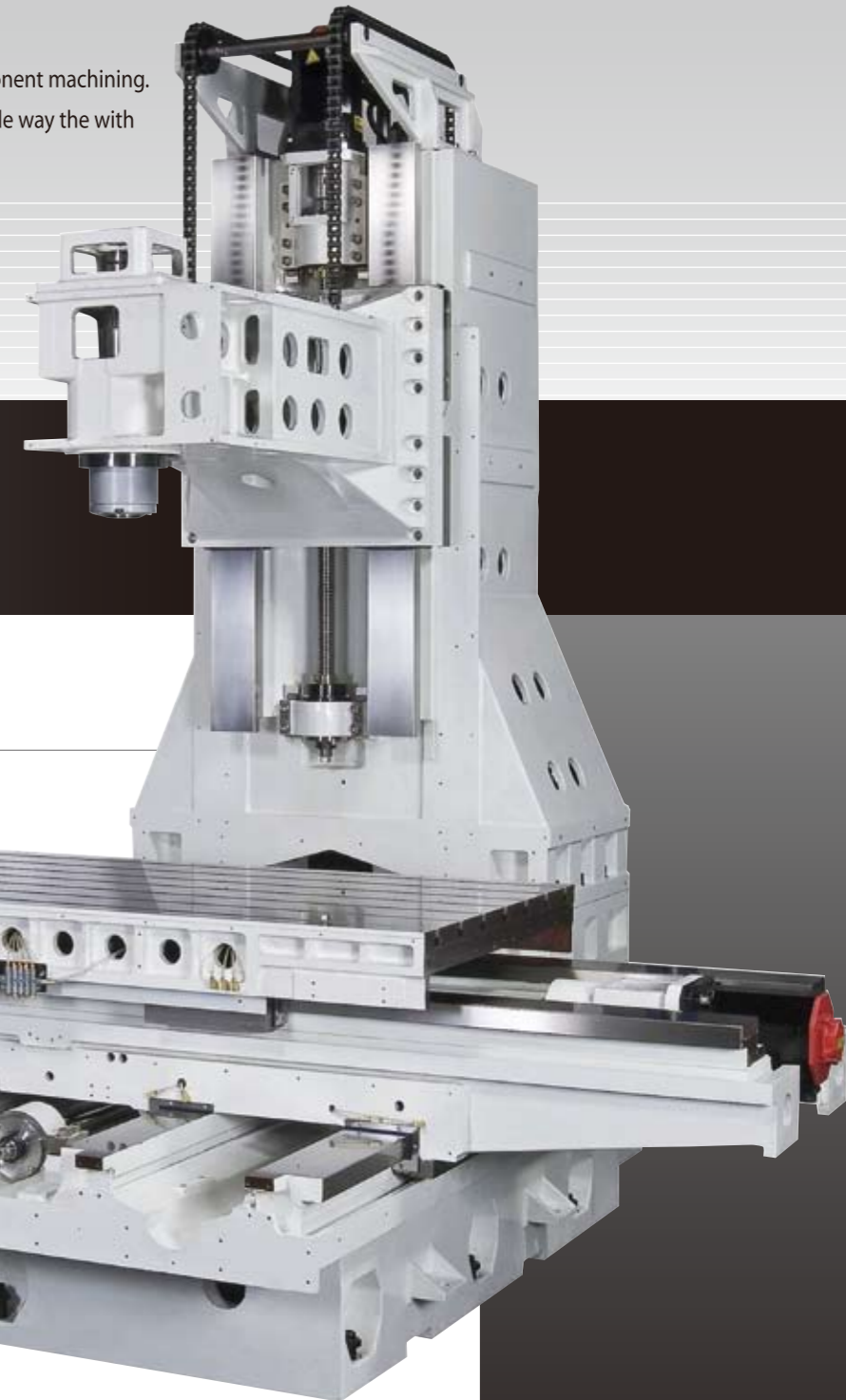
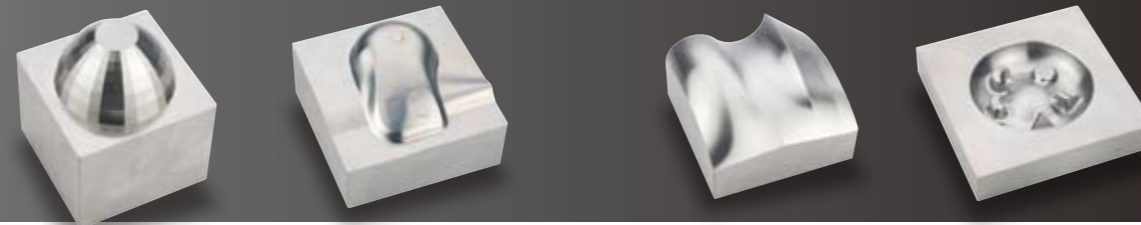
Strong direct drive coupling with pre-loaded ball screw



MV Series

Professional machining center for box way in Y axis with high rigid

- Box way in the X,Y,Z axes, all apply with the TRUCITE-B.
- MV1750S Y axis travel is 900mm, suitable for big component machining.
- Hand scraping with high-density, touch-plate of the slide way the with high accuracy.

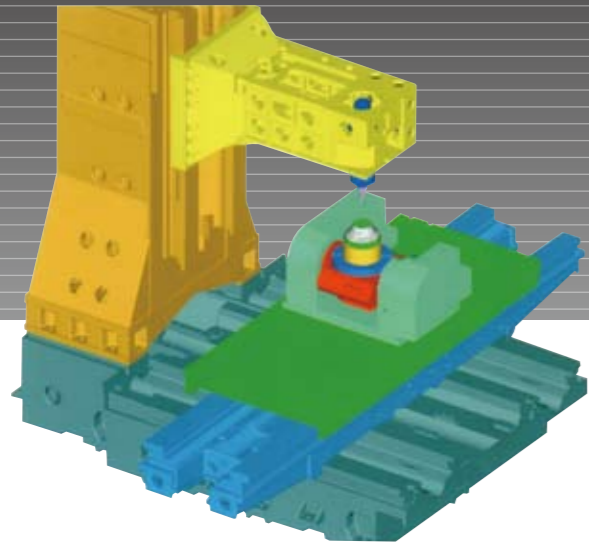


FEA design technology

MV Series

Construction

High Efficiency
High Rigid
High Capacity
High Reliability Products



5th axis machining (OPT)

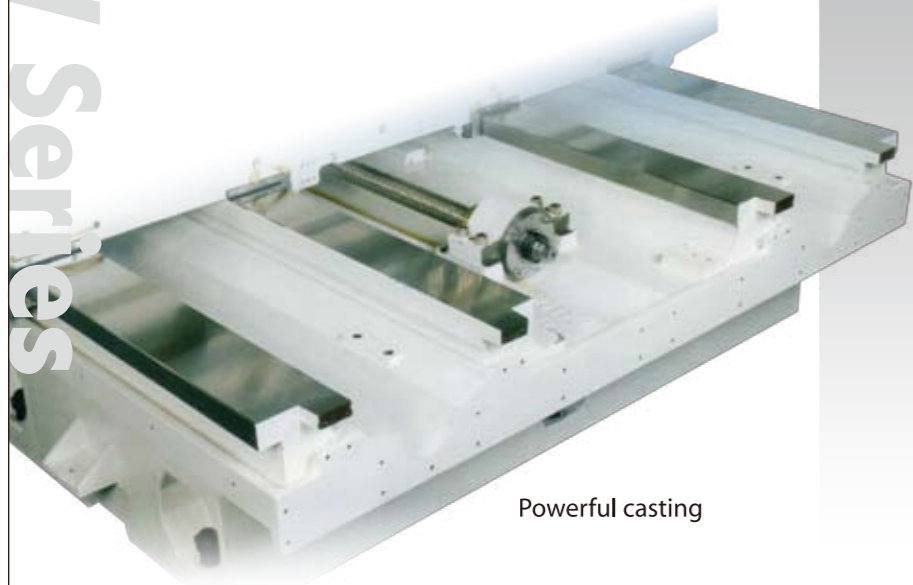


Column extension block
200 mm (OPT)



V12 engine head
stock cover machining

MV Series



Powerful casting

Accessories



Optional control:
Siemens 840D, Heidenhain iTNC530,
and Mitsubishi M730



6000 rpm with ZF gear box,
10000 rpm with belt drives,
12000 rpm with direct drives spindle



ZF gear box (STD. for MV1750D)



CTS Coolant thru spindle (OPT.)
ATS Air thru spindle (OPT.)
Coolant nozzle in spindle head (STD.)
Spindle air purge (STD.)



Lubrication unit (STD.)



Spindle oil chiller for all spindle

Quality assurance



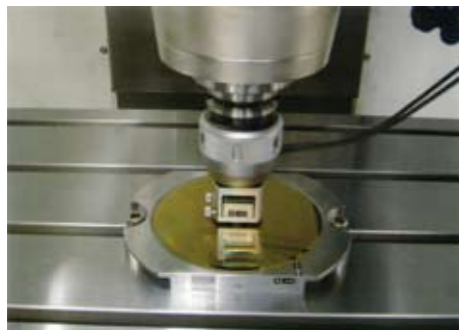
Laser check



Ball bar test



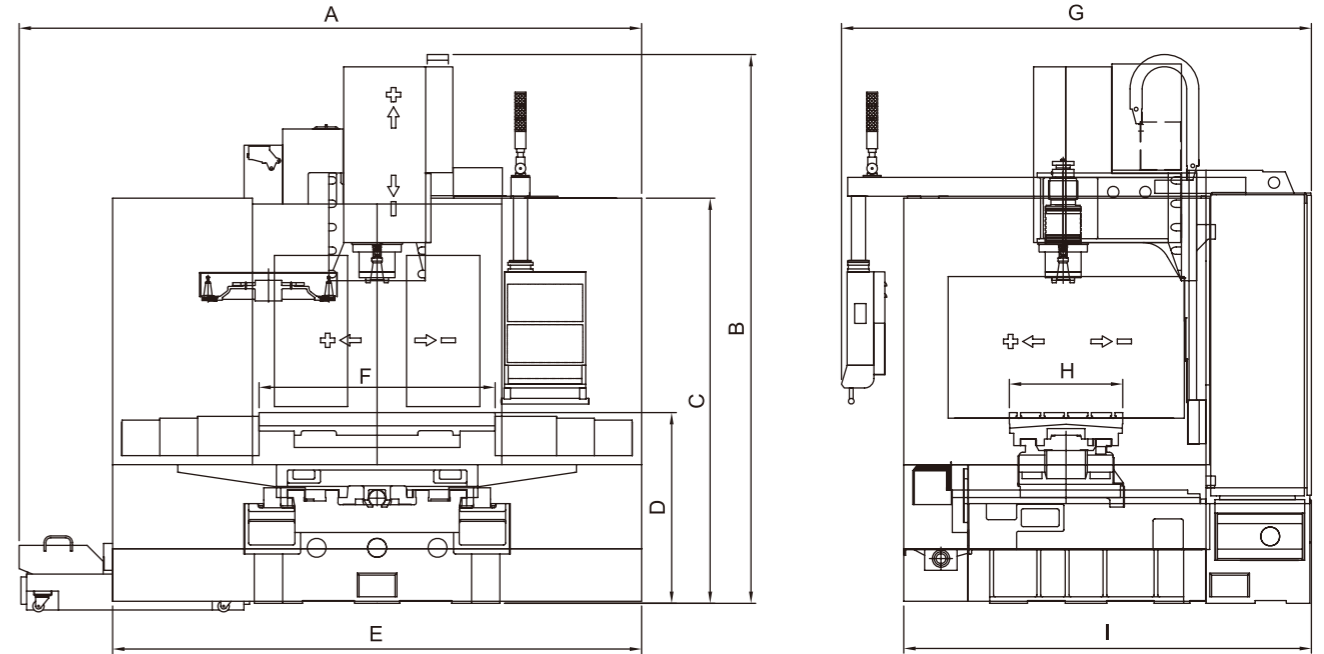
Vibration test of spindle



Non-touch type round out test

MV Series

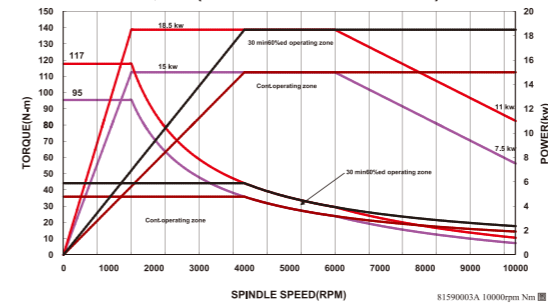
DIMENSION



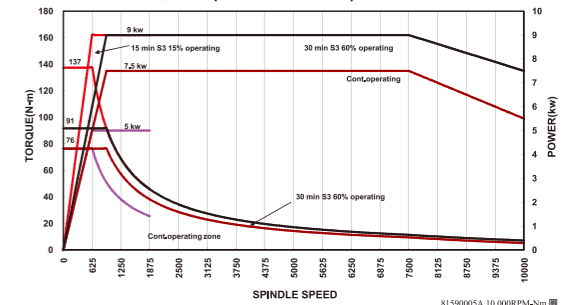
	A	B	C	D	E	F	G	H	I
MV1100S	3295	2905	2145	1010	2800	1250	2490	600	2160
MV1100D	3295	2905	2145	1010	2800	1250	2490	600	2160
MV1300S	3770	2905	2145	1020	3280	1500	2490	620	2160
MV1300D	3770	2905	2145	1020	3280	1500	2490	620	2160
MV1750S	5480	3125	2170	925	4350	2000	3860	880	3520
MV1750D	5480	3125	2170	925	4350	2000	3860	880	3520

SPINDLE MOTOR TORQUE DRAWING

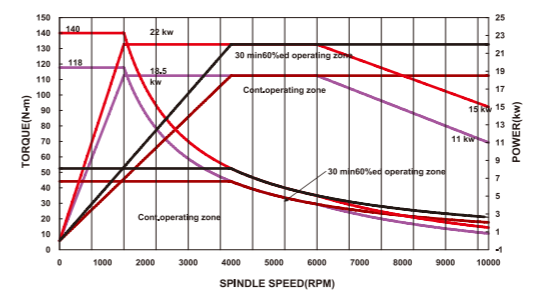
FANUC A15/10,000i(V1100/MV1100S/MV1300S)



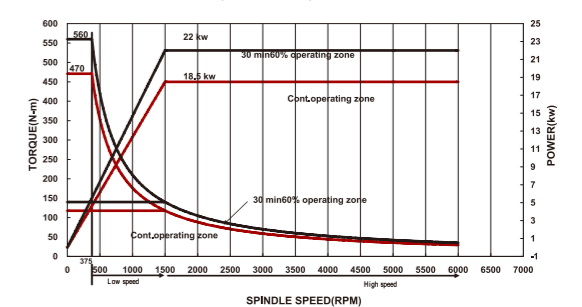
FANUC α P15/8,000i (MV1100/1300D)



FANUC A18/10,000i (MV 1750S)



Fanuc A18/7000i+GB (MV1750D)



MACHINE SPECIFICATIONS

ITEM	項目		MV1100S	MV1100D	MV1300S	MV1300D	MV1750S	MV1750D
Controller	控制器		Fanuc 0iMD (8.4"color)	Fanuc 0iMD (8.4"color)	Fanuc 0iMD (8.4"color)	Fanuc 0iMD (8.4"color)	Fanuc 0iMD (8.4"color)	Fanuc 0iMD (8.4"color)
X axis travel	X軸行程	mm(in)	1100(43)	1100(43)	1300(51)	1300(51)	1750(68)	1750(68)
Y axis travel	Y軸行程	mm(in)	610(24)	610(24)	610(24)	610(24)	900(35)	900(35)
Z axis travel	Z軸行程	mm(in)	600 (23.6)	600 (23.6)	600 (23.6)	600 (23.6)	760 (30)	760 (30)
Spindle nose to table	主軸鼻端到台面	mm(in)	115-715(4.5-28.1)	100-700(3.93-27.5)	105-705(4.13-27.7)	90-690(3.54-27.1)	200-960(7.8-37.7)	150-910(5.9-35.8)
Spindle center to column	主軸中心到立柱面	mm(in)	626(24.6)	641(25)	626(24.6)	641(25)	920(36)	920(36)
Table size	台面尺寸	mm(in)	1250x600(49x23.6)	1250x600 (49x23.6)	1500x620 (59x24)	1500x620 (59x24)	2000x880 (78x34.6)	2000x880 (78x34.6)
Table height	台面高度	mm(in)	1010(39.7)	1010(39.7)	1020(40.15)	1020(40.15)	925(36.4)	925(36.4)
T slot size	T型溝規格		5-18Tx125	5-18Tx125	5-18Tx125	5-18Tx125	7-18Tx125	7-18Tx125
Table Max. load	最大載重	kg(lbs)	800(1760)	800(1760)	1200(2640)	1200(2640)	2000(4400)	2000(4400)
Spindle speed	主軸轉速	rpm	10,000	6,000	10,000	6,000	10,000	6,000
Spindle taper	主軸錐孔		#40	#50	#40	#50	#40	#50
Spindle motor	主軸馬力	KW(HP)	15/18.5(20/25)	7.5/9(10/12)	15/18.5(20/25)	7.5/9(10/12)	18.5/22(25/30)	18.5/22(25/30)
X/Y/Z Rapid traverse	快速位移	M/min	20/20/18	20/20/18	20/20/18	20/20/18	18/18/12	18/18/12
X/Y/Z Feed rate	快速進給	M/min	1-10	1-10	1-10	1-10	1-5	1-5
X/Y/Z Servo power	伺服馬力	KW(HP)	4(5.4)	4(5.4)	4(5.4)	4(5.4)	7(9.4)	7(9.4)
ATC	刀具交換系統		Arm	Arm	Arm	Arm	Arm type	Arm type
No. of tools	刀具數量		24	24	24	24	32	32
ATC time (T - T)	換刀時間(T-T)	sec	3	4	3	4	3	4
ATC time (C - C)	換刀時間(C-C)	sec	6	8	6	8	6	8
Max. tool weight	最大刀重	kg	7	15	7	15	8	15
Max. tool Dia.	最大刀徑(相鄰刀)	mm	80	120	80	120	76	120
(No adjacent)	最大刀徑(無相鄰刀)	mm	125	200	125	200	150	200
Positioning X/Y/Z	定位精度	JIS B 6338	P ±0.008 mm	P ±0.008 mm	P ±0.008 mm	P ±0.008 mm	P ±0.015 mm	P ±0.015 mm
Repeatability X/Y/Z	重複精度	JIS B 6338	Ps ±0.005 mm	Ps ±0.005 mm	Ps ±0.005 mm	Ps ±0.005 mm	Ps ±0.01 mm	Ps ±0.01 mm
Length	前後長	mm(in)	3325(131)	3325(131)	3325(131)	3325(131)	4415(178.8)	4415(178.8)
Width	左右寬	mm(in)	3295(129)	3295(129)	3770(148)	3770(148)	4350(171)	4350(171)
Machine height	高度尺寸	mm(in)	2905(114)	2905(114)	2905(114)	2905(114)	3152(124)	3152(124)
Weight	機械重量	kg(lbs)	≐ 7000 (15400)	≐ 7200 (15840)	≐ 8000 (17600)	≐ 8200 (18040)	≐ 15000 (33300)	≐ 15000 (33300)
Pneumatic source requirement	需求壓力	bar	6	6	6	6	6	6
Power capacity	電力容量	KVA	25	25	25	25	25	25

因應技術需求，所有規格變更不另行通知。 All specifications are subject to change without prior notice.

STRANDARD ACCESSORIES

- Full enclosure guard
- Tool box
- Spindle air purge
- Spindle air blow
- 2 coolant nozzle
- Separated MPG
- PCMCIA Card slot
- RS232 port
- Look ahead function
- M30 Auto power off
- 3 color indicating light
- Working light
- Rigid tapping
- Helical interpolation
- Coil type chip conveyor
- Automatic lubrication system
- Arm type ATC 24 tools
- Coolant tank and pump

OPTIONAL ACCESSORIES

- Drum type ATC for BT40/BT50
- Coolant thru spindle
- 4th axis preparation
- 4th axis package with driver and motor
- Tool setter
- Touch Probe
- Extra 8M function
- Data Server (for Fanuc)
- Transformer
- Oil mist
- Mitsubishi
- Siemens
- Heidenhain
- CE specification
- Sea waterproof packing