Eumach

Always Step Ahead

VERTICAL MACHINE CENTER

VMC-1100 VMC-1270

A PROFESSIONAL CNC MACHINES MANUFACTURER

The most rigid & compact box ways vertical not only has box way machine's heavy cutting but also those linear way machine's

VMC-1100 with BT#40 spindle, 24 arm ATC, Mitsubishi M70 control.

BT#40 / 8000RPM (or up to 15000RPM)
belt drive, BT#40 / 8000轉或可達 15000轉

CAM type tool changer system
24/32 Tools刀臂式刀庫

machining center with extreme performance, capability – up to 26KW / #50 taper / gear head, rapid feed – up to 36 meter per minute.

- BT#50 6000RPM (optional up to 10000RPM) Cartridge type spindle incorporated P4 high precision angular contact bearings ensures the maximum rigidity and highest accuracy.

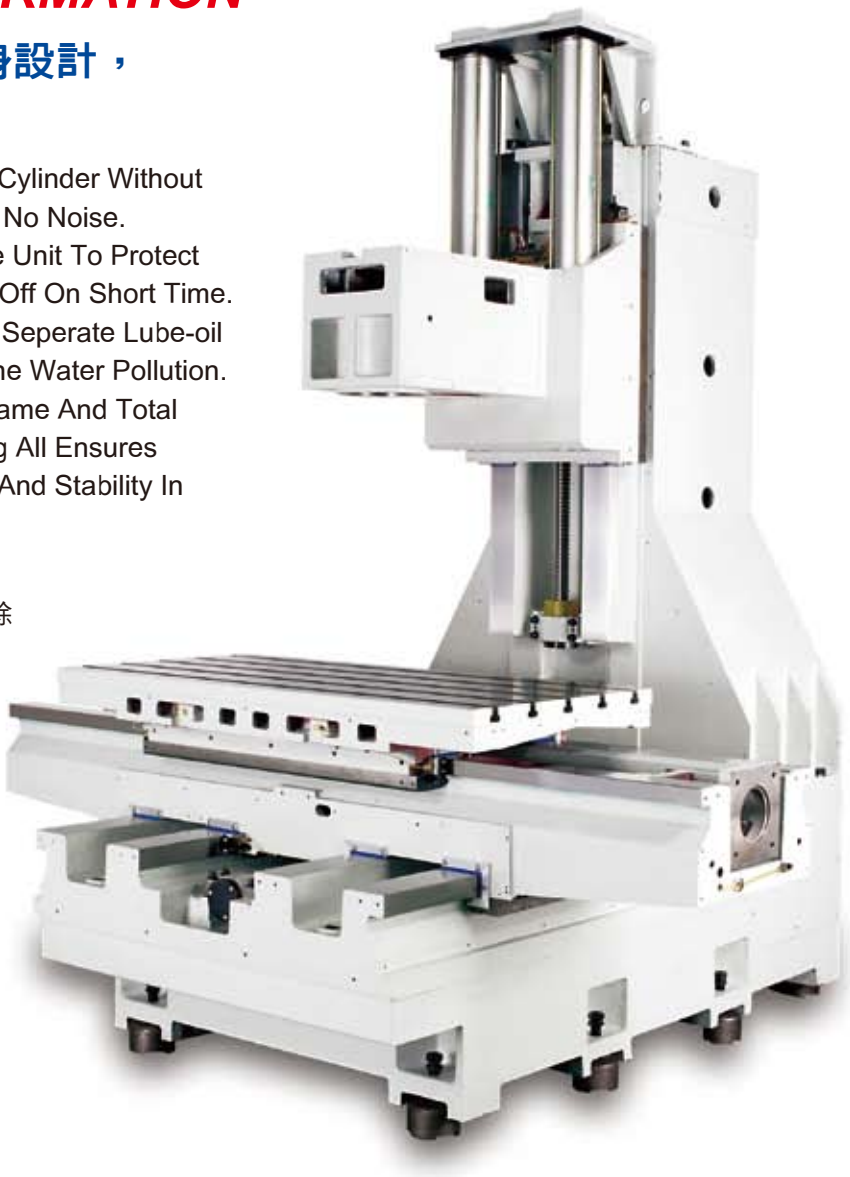
- BT＃50 6000 轉主軸（或選配 10000轉）砲彈式主軸方便維修，採用精密P4級主軸斜角滾珠軸承，確保主軸最大剛性及精度。

- VMC-1100 with BT#50 spindle, 24 arm ATC, Siemens 828D-SL control.

RIGID MEEHANITE CASTING FRAMES WITHOUT DEFORMATION

高剛性、高扭力的機身設計，最佳的動態水平

- Z-axis Moving Balance By Air Cylinder Without Counter Weight, No Vibration, No Noise.
- Z-axis Servo Motor With Brake Unit To Protect The Head Down While Power Off On Short Time.
- Special Base Design Possibly Seperate Lube-oil And Chip Water To Reduce The Water Pollution.
- More Than 5500kg Casting Frame And Total Machine Weight Up To 7300kg All Ensures Rigidity During Heavy Cutting And Stability In 24~36, Meter Rapid Feed.



- Z軸採用氣壓式配重平衡，可消除因配重所產生的震盪與聲響。
- Z軸伺服馬達加裝剎車裝置，多一層保護。
- 有油水分離的設計可將油與切削液大部份分離，以減少污臭並延長切削液使用壽命。
- 超過5500公斤鑄件床身及總重7300公斤機台重量，確保機台在重切削時的剛性以及每分鐘24~36米快速位移的穩定性。

- 4 Box-way Base & table Moving Full Support on 1100mm Travelled.
- 4硬軌設計工作台全行程支撐達到最佳的動態水平。

THE MACHINE QUALITY GUARANTEE

我們的品質保證

LASER INSPECTED
雷射檢驗

BALLBAR TEST
循圓測試

SPINDLE VIBRATION TEST
主軸震動測試

Carousel type magazine *(standard)*

斗笠式刀庫（標準配備）

- The machine is equipped with a 20-tool carousel-type magazine which features fast tool change in only six seconds (tool to tool) and 12 seconds (chip to chip).

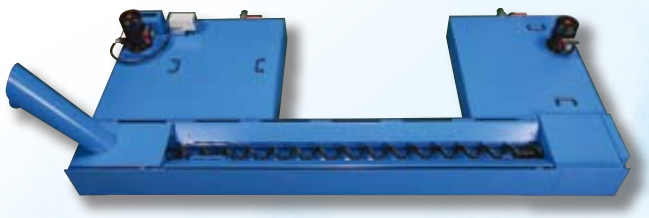
- 本機標準配備20支斗笠式刀庫，快速換刀時間為6秒（刀對刀）及12秒（換刀完成）

Chip Auger System *(standard)*

螺旋式切屑系統（標準配備）

- Mounted at the front side of the machine, the chip auger system will deliver chips to a cart. It can be used togethther with the flushing nozzles to keep the machine clean at all times.

- 除屑螺桿安裝在機械前方，可將切屑輸送至集屑桶，並可搭配沖屑系統使用，隨時保持機械之清潔。

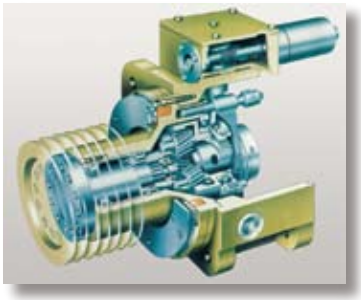


OPTIONAL ACCESSORIES（選購配備）

Auto tool length measurment-2
自動刀長量測-2

Chain type chip conveyor
履帶式排屑機

Coolant thru tool holder
油路刀把



Planetary gear box
行星式齒輪箱

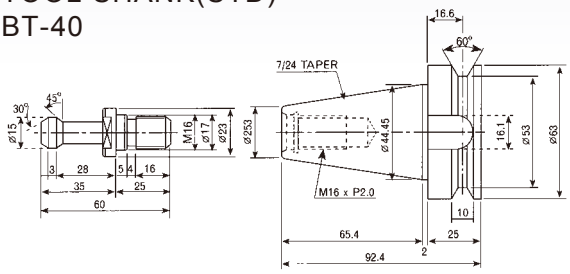
Oil skimmer
油水分離機

Coolant thru spindle
主軸中心出水

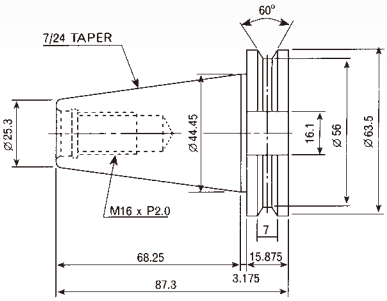
拉桿螺栓 、刀桿

PULL-STUD

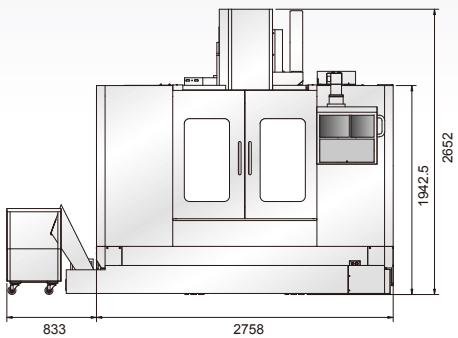
TOOL SHANK(STD)
BT-40

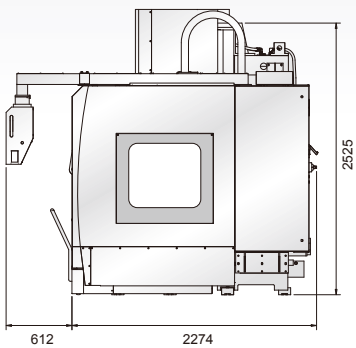


TOOL SHANK(OPT)
CAT-40/DIN69871



DIMENSIONS 機械外型尺寸





SPECIFICATIONS 機械規格

MODEL 型號			UNIT	VMC-1100//VMC-1270	
SPINDLE 主軸	Taper	錐度	BT#	#40	#50
	Speed	轉速	RPM	8000 (~15000)	6000 (~10000)
	Front bearing diameter	軸承直徑	MM	70	90
	Motor	馬達功率	KW	7.5/11(~22/26)	
TABLE 工作臺	Overall size	尺寸	MM	1270 x 640	
	T slots (size×No×pitch)	T形槽	MM	18 x 5 x 125	
	Maximum loading	最大荷重	KG	1200	
TRAVEL 行程	X / Y / Z axis	三軸行程	MM	1100//1270/635/610	
	X/Y/Z slide way number	滑道數量	PCS	2/4/2	
DISTANCES 相關距離	Spindle to column way	主軸至立柱	MM	660	
	Spindle to table top	主軸至工作臺	MM	100 ~ 710	110 ~ 720
	Floor to table top	工作臺至地面	MM	895	
AXIS MOTORS 軸向馬達	X/Y/Z axis	三軸扭力	Nm	12/22/12	
	X/Y/Z motor power	三軸功率	KW	3/4/3	
	Z axis balance design Z	Z軸配重方式		PNEUMATIC氣動	
	Cutting federate	切削速率	MM / MIN	1-5000(~10000)	
	Rapid federate	快速進給	M / MIN	24/24/24 (~36/36/30)	
ATC 刀庫	Type	型式	TYPE	CAROUSEL	ARM
	No. of ATC	刀具數量		20(~32)	24
	Max. tool dia./ length	最大刀徑/長	MM	106 / 300	125 / 300
	Max. tool weight	最大刀重	KG	7	15
	Tool to tool	刀具到刀具	SEC.	6	5
	Chip to chip	工件到工件	SEC.	12	10
BALLSCREWS 滾珠螺桿	Dia. ×pitch (X&Y axis)	直徑節距	MM×MM	40 × 12	
	Dia. ×pitch (Z axis)	直徑節距	MM×MM	40 × 12	
	Precision class (C3)	精密等級	MM/300MM	0.008	
COOLANT & LUBRICATION 冷卻及潤滑	Coolant motor power	冷卻馬達功率	KW	0.86	
	Coolant tank volume	冷卻水箱容量	L	200	
	Coolant motor capacity	馬達效率	L / MIN	20	
	Lubrication motor power	潤滑馬達功率	WATT	25	
	Lubrication tank volume	潤滑油容量	L	2	
ACCURACY 精度	Positioning	定位	MM	VDI 3441：P 0.015MM	
	Repeatability	重複	MM	VDI 3441：PS0.01MM	
	Roundness	真圓度	MM	JIS6338：±0.01MM / 300MM DIA.	
MISCELLANEOUS	Net weight	機器淨重	KG	7300	8500
	Power required	所需電力	KVA	25	
	Pneumatic required	所需空壓	KG / CM2	7	

Note: ( ) OPTION

Cnc Controls Available

FANUC 發那科
0*i*-MC / 31*i*-MB

HEIDENHAIN 海德漢
TNC- *i*530

MITSUBISHI 三菱
M70 / M720

SIEMENS 西門子
840D / 828D