

特性

- 機身採用FC30高級鑄鐵製成，經調質處理，確保長期精度。
- 工作台採用FC30高級鑄鐵製成，經調質硬化處理，及精密研磨。
- 主軸為SCM-21合金鋼精密加工而成。經調質滲碳處理，重切削穩定性優異。
- X, Y軸採用AC伺服馬達驅動，動作順暢。
- X, Y軸滑道精密研磨，並貼附Turcite-B耐磨片。
- 升降座為電動快速升降。
- X, Y軸採用精密滾珠螺桿傳動。
- 強力立銑頭傳動齒輪，經熱處理硬化，精密研磨，耐磨耗，運轉噪音低。
- 採用自動注油器，可定時自動潤滑三軸滑道，螺桿，齒輪及軸承，確保高效率加工及增加壽命。
- 配備防濺水盤以防切削液外洩。
- 本機配有高壓切削液泵浦，切削除屑效果更佳。
- 配備石英工作燈。

FEATURES

- The machine column is manufactured from high quality cast iron FC-30, tempered for long term accuracy.
- FC-30 cast iron table is tempered, hardened and precision ground.
- The spindle is precision machined from SCM-21 alloy steel, tempered and carbon treated, ensuring maximum stability for heavy duty cutting.
- X and Y axes are driven by an AC servo motor for smooth traverse.
- X and Y axis slideways are precision ground, and coated with Turcite-B wear resistant media.
- The knee is power elevated and has rapid traverse function.
- X and Y axes employ precision ball screws.
- The drive gears in the powerful vertical head are hardened and precision ground for maximum wear resistance and low noise running.
- Equipped with an automatic lubricator for lubrication to 3-axis slideways, feed screws, gears and bearings, ensuring high working efficiency and long service life of parts.
- The coolant tray effectively prevents cutting fluid leakage.
- Employs high pressure coolant pump for efficient chip removing.
- Halogen work light.



砲塔式銑頭、橫銑頭、強力立銑

多種頭部組合結構供您選擇，符合您各種加工需求！

SPECIFICATIONS 規格表

單位:mm / Unit:mm

工作台	Table	
工作台面積	Table size	1300 x 300
左右行程	X-axis travel	1000
前後行程	Y-axis travel	360(390 手動 Manual)
上下行程	Z-axis travel	450(490 手動 Manual)
T型槽 (尺寸x槽數x間距)	T-slot (Size x numbers x distance)	16 x 3 x 63
左右前後進給 (無段)	X, Y axes feedrate (Variable) mm/min	2500
左右及前後快移速率 mm/min	X, Y axes rapid travel mm/min	2500
上下快移速率 mm/min	Z-axis rapid travel mm/min	750

立主軸	Vertical spindle	
砲塔銑頭	Turret head	
主軸轉速 RPM	Spindle speeds RPM	16段, 75-3600(標準) / 16 steps, 75-3600(standard) 無段, 80-3800(選購) / Variable, 80-3800(optional)
主軸通心軸上下行程	Quill travel	140
主軸進給(3段) mm/rev	Quill feedrate (3-steps) mm/rev	0.035, 0.07, 0.14
主軸端孔斜度	Spindle nose	N.S.T. 40#
主軸頭之旋轉角度 (左右)	Swivelling angle of spindle head (R & L)	45°
伸臂之旋轉角度	Swivelling angle of overarm	360°
伸臂行程	Overarm travel	660
軸端至工作台面距離	Spindle nose to table surface	110-560
軸心至機柱滑動面距離	Spindle center to column	110-700

強力銑頭	Powerful vertical head	
主軸轉速 RPM	Spindle speeds RPM	9段, 85-1300 / 9 steps, 85-1300
主軸端孔斜度	Spindle nose	N.S.T. 40#
軸端至工作台面距離	Spindle nose to table surface	0-386
軸心至機柱滑動面距離	Spindle center to column	369
橫主軸	Horizontal spindle	
橫銑頭	Horizontal head	
主軸轉速 RPM	Spindle speeds RPM	9段, 85-1300 / 9 steps, 85-1300
主軸端孔斜度 (N.S.T.)	Spindle nose (N.S.T.)	N.S.T. 40#
銑刀軸尺寸	Dial of milling arbor	25.4
軸心至工作台面距離	Spindle center to table surface	0-450
軸心至伸臂下端之距離	Spindle center to overarm bottom	369

馬達	Motor	
強力銑頭	Powerful vertical head spindle	5HP x 4P AC motor
砲塔主軸	Turret head spindle	5HP 變極馬達 Pole change motor
橫主軸	Horizontal spindle	5HP x 4P AC motor
工作台左右及前後進給	Table longitudinal & cross feedrate	750W 伺服馬達 Servo motor
升降進給	Vertical feedrate	1HP x 6P AC motor
冷卻泵浦	Coolant pump	1/8 HP

機型	HY-2VH	HY-2T	HY-2HT	HY-2VHT
外觀尺寸 External dimensions	2060x1820x2240	2060x1820x2240	2060x1820x2240	2060x1820x2240
淨重/毛重 N.W./G.W.	2250/2550 kgs	2250/2550 kgs	2500/2800 kgs	2650/2950 kgs

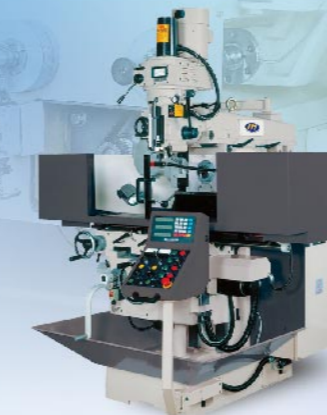
※由於研究改進之需要，本公司保留規格及尺寸修改權利，恕不另行通知。
All specifications and designs are subject to change without prior notice.

標準附件	
自動潤滑系統	1 set
滾珠螺桿(X, Y)	1 set
冷卻泵浦裝置	1 set
工具	1 set
工具箱	1 pc
銑刀軸附軸環(橫銑頭專用)	1 set
刀軸拉桿	1 pc
防護板	1 set
擋屑皮	1 pc
石英燈	1 pc

特別附件	
氣動鎖刀	1 set
三軸光學尺	1 set
CE標準	1 set
分度頭	1 set
分度盤	1 set
迴轉虎鉗	1 set
平面銑刀盤	1 pc
平面銑刀柄	1 pc
端銑刀夾具組	1 set

Standard accessories	
Automatic lubricator	1 set
Ball screw(X, Y)	1 set
Complete cooling system	1 set
Tool kits	1 set
Tool box	1 pc
Milling arbor with spacer	1 set
(For horizontal spindle only)	
Draw bar	1 pc
Splash guard	1 set
Chip guard	1 pc
Halogen work light	1 pc

Optional accessories	
Air power draw bar	1 set
D.R.O.	1 set
CE mark	1 set
Dividing head	1 set
Rotary table	1 set
Swivel milling vise	1 set
Face milling cutter	1 pc
Face cutter arbor	1 pc
End mill collets & chuck	1 set



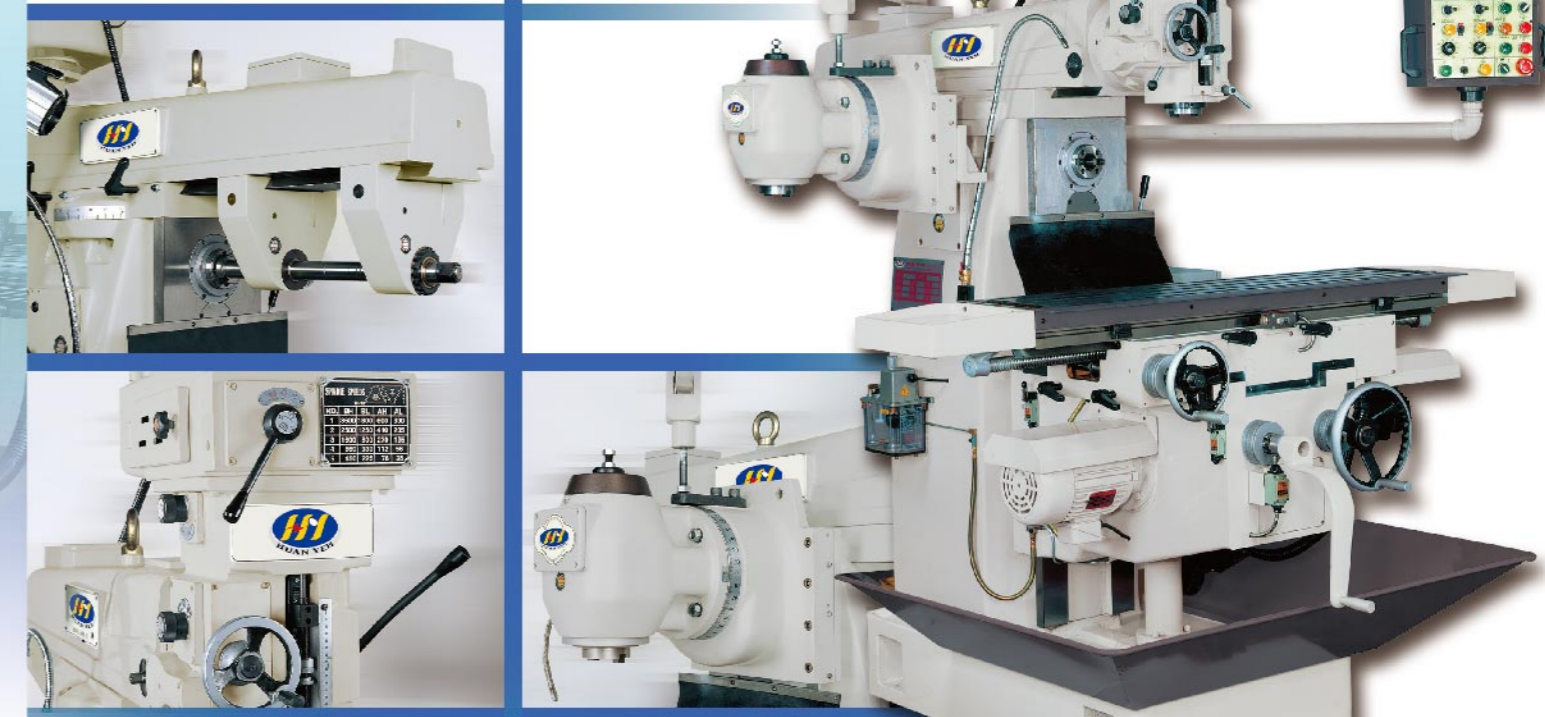
(The CE mark, Air power draw bar and D.R.O are optional)



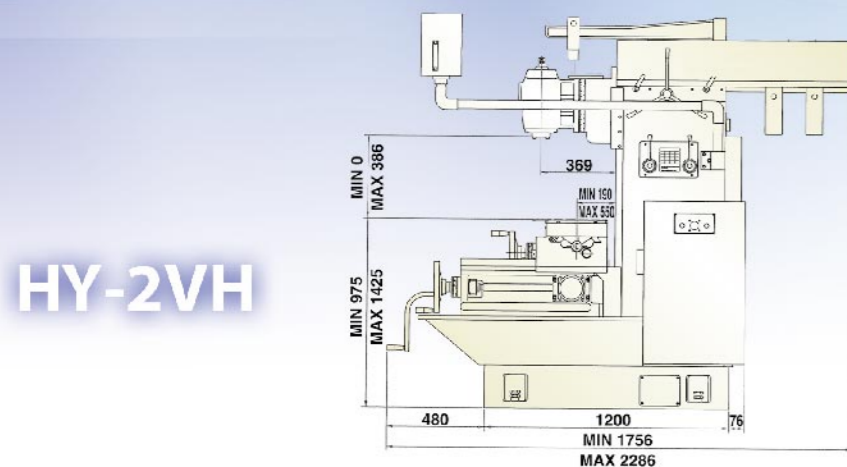
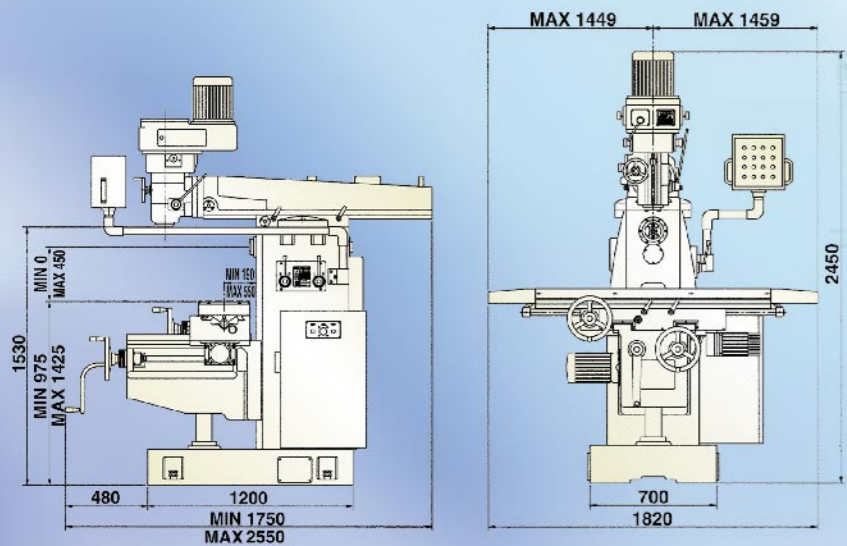
全系列膝型銑床 Knee Type Milling Machine HY-2VH/2T/2HT/2VHT

寰業全系列高品質膝型銑床，以優異的銑削效率與品質為設計製造重點。整體結構穩重，高剛性，操作靈巧，精度持久。

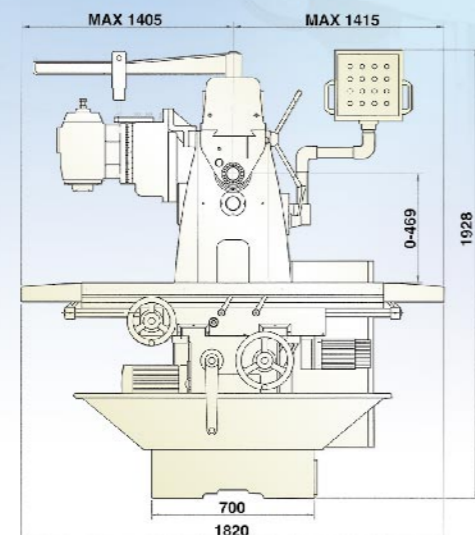
HUAN YEH knee type milling machines are quality constructed to give extraordinary milling efficiency, quality, maximum rigidity, smooth operation and long term accuracy.



HY-2VH



HY-2T HY-2HT HY-2VHT



Dimensions size



寰業精機股份有限公司

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寰業精機股份有限公司 HUAN YEH PRECISION MACHINERY CO., LTD.

全系列膝型銑床 The Most Comprehensive Choice of Knee Type Milling Machine

UHAN YEHPRECISSION MACHINERY



HY-2VH
VERTICAL & HORIZONTAL MILLING MACHINE

- Powerful vertical and horizontal head configuration.
- Table area 1300 x 300mm
- X-axis travel 1000mm
- Y-axis travel 360mm
- Z-axis travel 450mm
- Spindle taper NST#40

HY-2VH
立橫複合銑床

- 強力立銑頭及橫銑(騎銑)構造
- 工作台面積 1300 x 300mm
- X軸行程 1000mm
- Y軸行程 360mm
- Z軸行程 450mm
- 主軸斜度 NST#40



HY-2T
VERTICAL TURRET MILLING MACHINE

- Vertical turret head configuration
- Table area 1300 x 300mm
- X-axis travel 1000mm
- Y-axis travel 360mm
- Z-axis travel 450mm
- 16 step speeds, 75-3600 RPM (standard), Variable speed 80-3800 RPM (optional)
- Spindle taper NST#40

HY-2T
砲塔型立式銑床

- 立式砲塔銑頭構造
- 工作台面積 1300 x 300mm
- X軸行程 1000mm
- Y軸行程 360mm
- Z軸行程 450mm
- 砲塔式銑頭為16段75-3600(標準) 無段80-3800(選購)
- 主軸斜度 NST#40



HY-2HT
HORIZONTAL VERTICAL TURRET MILLING MACHINE

- Horizontal and turret head configuration
- Table area 1300 x 300mm
- X-axis travel 1000mm
- Y-axis travel 360mm
- Z-axis travel 450mm
- 16 step speeds, 75-3600 RPM (standard), Variable speed 80-3800 RPM (optional)
- Spindle taper NST#40

HY-2HT
砲塔型立橫銑床

- 立式砲塔銑頭及橫銑(騎銑)構造
- 工作台面積 1300 x 300mm
- X軸行程 1000mm
- Y軸行程 360mm
- Z軸行程 450mm
- 砲塔式銑頭為16段75-3600(標準) 無段80-3800(選購)
- 主軸斜度 NST#40



HY-2VHT
HORIZONTAL VERTICAL TURRET MILLING MACHINE

- Powerful vertical, horizontal and turret head configuration
- Table area 1300 x 300mm
- X-axis travel 1000mm
- Y-axis travel 360mm
- Z-axis travel 450mm
- Turret type head with 16 step speeds, 75-3600 RPM (standard), Variable speed 80-3800 RPM (optional)
- Spindle taper NST#40

HY-2VHT
砲塔型立橫複合銑床

- 強力立式銑頭、橫銑及砲塔式銑頭三用構造
- 工作台面積 1300 x 300mm
- X軸行程 1000mm
- Y軸行程 360mm
- Z軸行程 450mm
- 砲塔式銑頭為16段75-3600(標準) 無段80-3800(選購)
- 主軸斜度 NST#40

銑削性能的極致展現 Quality Features Assure Great Milling Performance



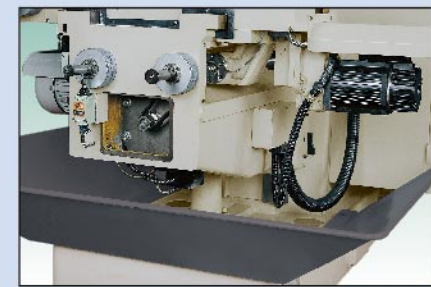
INTEGRATED CONTROL PANEL
All control buttons are integrated on a control panel which is located at the front for easy access. It eliminates the troublesome speed change through gear box.

集中式控制面板
本機所有操作及控制完全集中在操作面板上，免掉齒輪箱傳動變速之操作不便。



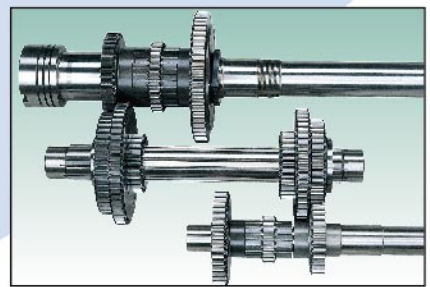
INTEGRATED AUTOMATIC LUBRICATOR
The powerful automatic lubricator delivers oil to all slideways to ensure smooth travel at all times.

集中式自動潤滑器
強勁潤滑器提供所有潤道之自動潤滑，確保機械操作之順暢性。



SERVO MOTOR DRIVE FOR TWO AXES
The X and Y axes are driven by an AC servo motor, providing fast motion. Rapid traverse speed up to 2500 mm/min.

兩軸伺服馬達驅動
X、Y軸行程採用AC伺服馬達驅動，可瞬間高速進給，速度可達2500 mm/min。



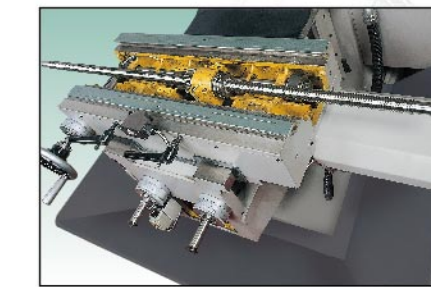
HORIZONTAL SPINDLE & TRANSMISSION MECHANISM
The NST#40 spindle is precision machined from SCM-21 alloy steel, tempered and carbon treated to minimize strain. The spindle runs on precision bearings for long term high speed running, heavy duty cutting and maximum stability.

橫主軸及傳動機構
NST#40主軸採SCM-21合金鋼精密加工。並經調質，滲碳處理，將應變降到最低程度。主軸採用精密軸承，耐長期高速運轉及重切削，穩定性優異。



POWER ELEVATION OF KNEE
The knee elevation is driven by an individual motor for convenient operation. The knee also has rapid traverse function.

升降座電動升降
升降座配置獨立馬達驅動升降，操作更方便。



PRECISION BALL SCREWS ON X AND Y AXES
The X and Y axes are transmitted by precision ball screws, combined with preloaded double nuts for extremely smooth and high precision working, with minimum backlash.

X、Y軸滾珠螺桿
X、Y軸傳動採用雙螺帽預壓式精密滾珠螺桿，進給動作極順暢，精密，背隙小。



HORIZONTAL HEAD
● Gear drive milling head.
● The gears are hardened and precision ground.
● 9 spindle speeds.
● 5 HP spindle motor
● Spindle taper NST#40.

橫銑頭(騎銑)配件
● 齒輪式傳動。齒輪經硬化，研磨。
● 9段主軸轉速。
● 5 HP 馬達驅動。
● 主軸斜度NST#40。



TURRET TYPE HEAD
● Belt drive milling head.
● 16-step speeds 75-3600rpm (standard), Variable speeds 80-3800rpm (optional).
● 5 HP spindle motor
● Milling head tilts 45° right and left.
● Spindle taper NST#40.

砲塔式立銑頭
● 皮帶式傳動。
● 主軸轉速16段75-3600(標準)，無段80-3800(選購)。
● 5 HP 馬達驅動。
● 頭部可左右45度傾斜。
● 主軸斜度NST#40。



POWERFUL VERTICAL HEAD
● The gears are hardened and precision ground on the gear drive milling head.
● 9 spindle speeds.
● 5 HP spindle motor.
● Milling head tilts 45° right and left.
● Spindle taper NST#40.

強力立銑頭
● 齒輪式傳動。齒輪經硬化，研磨。
● 9段主軸轉速。
● 5 HP 馬達驅動。
● 頭部可左右45度傾斜。
● 主軸斜度NST#40。