

ITEM型式 MODEL		FRD-2000NCH	FRD-2500NCH	FRD-2000H	FRD-2500H	
Capacity 最大工作能量	Drilling鑽孔	Steel鋼	85	85	85	85
		Cast iron鑄鐵	105	105	105	105
	Tapping攻牙	Steel鋼	M65	M65	M65	M65
		Cast iron鑄鐵	M75	M75	M75	M75
Boring鑽孔	Steel鋼	150	150	150	150	
	Cast iron鑄鐵	200	200	200	200	
Spindle stroke主軸上下行程		H 400	400	400	400	
Size of morse taper主軸孔莫式推拔番號		MT6	MT6	MT6	MT6	
Spindle speed主軸變速		H.L兩檔無段變速 (H.L variable speed by inverter) 20-1300RPM	H.L兩檔無段變速 (H.L variable speed by inverter) 20-1300RPM	H.L兩檔無段變速 (H.L variable speed by inverter) 20-1300RPM	H.L兩檔無段變速 (H.L variable speed by inverter) 20-1300RPM	
Spindle feeds主軸進給範圍		DC驅動系統 DC motor 0.05-200mm/min distance	DC驅動系統 DC motor 0.05-200mm/min distance	0.04-1.15x10	0.04-1.15x10	
Column diameter立柱直徑		A 480	480	480	480	
Max.distance,column surface spindle center 立柱面至主軸中心最大距離		B 2000	2500	2000	2500	
Min.distance,column surface spindle center 立柱面至主軸中心最小距離		C 420	420	420	420	
Horizontal travel of headstock主軸頭左右移動行程		D 1530	2030	1530	2030	
Max.distance,base to spindle底座到主軸最大距離		E 1800	1800	1800	1800	
Min.distance,base to spindle底座到主軸最小距離		F 560	560	560	560	
Overall height of column機柱高度		G 2950	2950	2950	2950	
Machine height from floor機械最大高度		I 3400	3400	3400	3400	
Dimensions of base (LxMxK)底座尺寸		2900x1200x250	3400x1200x250	2900x1200x250	3400x1200x250	
Effective area of table (RxSxT)工作台有效區		800x540x400 equalx2PC	800x540x400 equalx2PC	800x540x400 equalx2PC	800x540x400 equalx2PC	
Spindle drive motor (HP)主軸驅動馬達		10HP(OPT.15HP)	10HP(OPT.15HP)	10HP(OPT.15HP)	10HP(OPT.15HP)	
Arm ejection motor (HP)旋臂驅動馬達		2HP	2HP	2HP	2HP	
Coolant pump (HP)冷卻幫浦		1/4HP	1/4HP	1/4HP	1/4HP	
Oil motor (HP)油壓馬達		1HP	1HP	1HP	1HP	
Inverter變頻器		10HP(OPT.15.20HP)	10HP(OPT.15.20HP)	10HP(OPT.15.20HP)	10HP(OPT.15.20HP)	
Touching control screen觸控螢幕		10"	10"			
Net weight-approx (kg)淨重		7200	7800	7100	7700	
Gross weight-approx (kg)總重		8000	8600	8000	8500	
Measurement (LxWxH)裝箱尺寸		3150x1450x3300	3650x1450x3300	3150x1450x3300	3650x1450x3300	

# Radial Drilling Machine

FRD-2000NCH      FRD-2500NCH



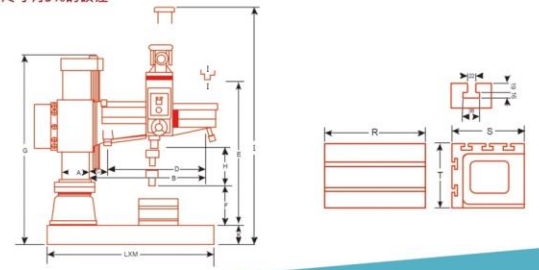
All specifications and designs are subject to change without notice No notice further. All the sizes with ±5% inaccuracy. 本公司保留隨時修改上述規格之權利。不另行通知。所有尺寸有5%的誤差。

accessories  
Rotary table

特別配件  
NC圓形旋轉盤

※ Standard accessories:標準配件:

- Tools ..1set      工具箱      x1組
- Cooling pump 1set      冷卻系統      x1組
- Lamp ..1set      工作燈      x1組
- Table ..2set      方形工作檯      x2個



**特點:**

1. 10"觸控面板。
2. 機器操作時，可任意更改主軸速度和進給速度。
3. NC系統可設定，並記憶鑽孔深度和攻牙深度。



Auto Drilling



Auto Chips Cut Off

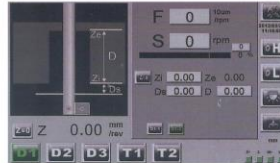


Auto Peak Drilling(full pulling distance)

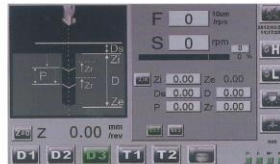


Random Tapping

4. 主軸馬達有電流過負載安全保護程式。
5. 觸控螢幕簡單易懂，容易操作。
6. 可和轉盤連接，進行自動連續鑽孔功能。



Auto Opposite Drilling



Auto Peak Drilling(changeable pulling distance)



Semi-Auto Tapping

除了鑽孔基本功能，我們的機器還可經由簡單的對話式程式輸入，提供其他更多功能，主軸連接光學尺鑽孔經深度可達0.20mm。Beside basic drilling function, our machine also provides many other functions through simple dialogue setting as below. Our machine quill with DRO measuring machining depth can control the accuracy within 0.20mm.

**特點:**

1. 本機全由(TH-2000H/TF-2500H)鑄鐵構成。
2. 各傳動軸皆有高效安全保護裝置。
3. 本機為精密油壓系統構成，方便操作，準確迅速。
4. 油壓系統與電器系統，採分離式設計，確保供電系統安全。

5. 主要傳動系統，皆採渦輪滲透設計，省力、耐用、高效率。
6. 主軸主要齒輪是以鉻鉬合金鋼所做成，並且都是經過調質滲碳熱處理和精密研磨。

**SPECIAL FEATURES:**

1. 10" touch screen.
2. Allow changing spindle speed and feeding rate any time during operation.
3. The depth of drilling and tapping can be set and memorized by NC system.
4. Spindle motor has torque load setting for safety protection.
5. Operation friendly by using easily and understandable symbols on touch screen.
6. Can be connected to a rotary table for automatic continuously drilling operation.

**SPECIAL FEATURES:**

1. Machine made by TH-2000H/TH-2500H cast-iron.
2. Each transmission spindle installed secure protection.
3. Precision heavy duty installation.easily precisely and instantly operation.
4. Precision heavy duty & electric system. independent control design. security for electricity supply system.
5. Built with worm gear and shaft design for transmissible system, Energy-saving and durable.
6. Spindle main gear are made of scm material all through harden and precision grinding.