



益彰機械股份有限公司
YI CHANG MACHINERY CO., LTD



益彰機械股份有限公司
YI CHANG MACHINERY CO., LTD



TUV



CE

鑽孔機 / 攻牙機

DRILLING / TAPPING
MACHINE



ENGLISH



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中文版



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Manual Tap Machine



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中文版



ENGLISH



訂製機台範例

Customized Machine



操作影片
Operating Video

▶ 自動分割鑽孔
Auto Index Drill Machine



▶ 油壓鑽床 & 大尺寸多軸器
Hydraulic Drill Machine
& Wide Range Multiple Spindle Head



操作影片
Operating Video

▶ 自動鑽孔攻牙 & 分度盤
Auto Drill & Tap Machine
with Indexer



▶ 立式攻牙機 & 臥式鑽孔機
Automatic Drill & Tap Machine
Vertical & Horizontal Models



操作影片
Operating Video

▶ 自動鑽孔+倒角+攻牙
Automatic Drill & Chamfer
& Tap Machine



操作影片
Operating Video



操作影片
Operating Video

▶ 全自動氣動腳踏車架鑽床
Fully Automatic Bicycle Frame
Drill Machine



▶ 自動滑台退料
Tapping with
Sliding Table



操作影片
Operating Video



▶ 自動攻牙 & 轉盤
Automatic Tap Machine
with Indexer



操作影片
Operating Video

客製化伺服改善方案

Customized Servo Motor Control



操作影片
Operating Video

- ▶ 伺服鑽孔 & 滾光機
Servo Drill Machine
with Ball Burnish



- ▶ 滾光機 & 伺服滑台
Ball Burnish with Servo Slide



操作影片
Operating Video

- ▶ 多軸鑽孔 & 伺服滑台
Drill Machine with Servo Slide



操作影片
Operating Video

- ▶ 雙伺服鑽孔 / 攻牙機
搭配伺服滑台
Drill / Tap Machine
with Dual Servo Motor Control
with Servo Sliding Table



操作影片
Operating Video

- ▶ 空油壓鑽床 搭配伺服轉盤
Pneumatic Drill Machine
with Servo Indexing Table



手動鑽床

Manual Drilling Machine



操作影片
Operating Video

► HD-14I



► HD-14

► HD-340



► HD-25



變頻無段變速
Various Speed
with Inverter

★ 外觀尺寸請參考 P.20 / 21

Appearance Dimensions Please View Page 20 / 21.

型號 Model		HD-14I	HD-14	HD-340	HD-25
規格 Specifications					
進刀方式 Stroke		手動 Manual	手動 Manual	手動 Manual	手動 Manual
主軸型式 Spindle Type	主軸斜度 Inside Spindle	MT2	MT2	MT2	MT3
	鼻端斜度 For Chuck	JT6	JT6	JT6	JT6
工作能力 Working Ability		中碳鋼 Steel (S45C)	3-16	3-16	3-16
主軸行程 Spindle Travel (mm)		100	100	100	140
馬達 Motor		1HP-4P	1HP-4P	1HP-4P	2HP-6P
主軸轉速 (段數) Spindle Speed RPM (Steps)	50HZ	400-2700	480-2300 (4)	190-2800 (9)	160-1342 (9)
	60HZ		550-2700 (4)	240-3400 (9)	190-1610 (9)
重量 Weight (kg)		95	91	94	199

1. 實際工作能力與刀具銳利度、潤滑及冷卻有密切關係。
2. 特殊材質、尺寸須配合特製鑽速。

1. The practical working abilities are very related to sharpness on drill bit, good lubrication and suitable cooling.
2. Customized spindle speed might be required for particular materials or drilling sizes.

自動鑽床 (離合式)

Automatic Drilling Machine (Clutch Type)



► HD-120



► HD-250



► HD-350



型號 Model		HD-120	HD-250	HD-350
規格 Specifications				
進刀方式 Stroke		自動 Automatic	自動 Automatic	自動 Automatic
主軸型式 Spindle Type	主軸鉋度 Inside Spindle	MT2	MT3	MT4
	鼻端鉋度 For Chuck	JT6	JT6	
工作能力 Working Ability	中碳鋼 Steel (S45C)	3-16	5-25	15-35
主軸行程 Spindle Travel (mm)		93	133	153
馬達 Motor		1HP-4P	2HP-6P	3HP-4*8P
主軸轉速 (段數) Spindle Speed RPM (Steps)	50HZ	466-1675 (4)	200-1600 (9)	127-961 (8)
	60HZ	560-2010 (4)	210-1700 (9)	150-1140 (8)
重量 Weight (kg)		102	206	492

1. 實際工作能力與刀具銳利度、潤滑及冷卻有密切關係。
2. 特殊材質、尺寸須配合特製轉速。

1. The practical working abilities are very related to sharpness on drill bit, good lubrication and suitable cooling.
2. Customized spindle speed might be required for particular materials or drilling sizes.

★ 外觀尺寸請參考 P.20 / 21

Appearance Dimensions Please View Page 20 / 21.

自動鑽床 (空油壓)

Automatic Drilling Machine (Pneumatic)



操作影片
Operating Video

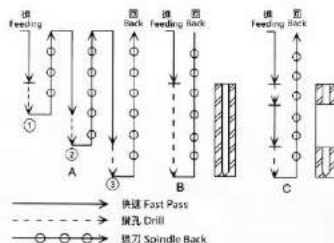


► HD-PAM520



► HD-PAM520L

- A: 退屑多段進刀 Multiple Step
B: 單段進刀 Single Step
C: 二段進刀 Two Step



型號 Model		HD-PAM520	HD-PAM520L
規格 Specifications			
進刀方式 Stroke		自動 (空油壓式) Automatic (Pneumatic)	自動 (空油壓式) Automatic (Pneumatic)
主軸型式 Spindle Type	主軸斜 Inside Spindle	MT2	MT3
	異端斜 For Chuck	JT6	JT6
工作能力 Working Ability		中碳鋼 Steel (S45C)	中碳鋼 Steel (S45C)
主軸行程 Spindle Travel (mm)		93	133
馬達 Motor		1HP-4P	1HP-4P
主軸轉速 (段數) Spindle Speed RPM (Steps)	50HZ	480-2300 (4)	190-1850 (9)
	60HZ	550-2700 (4)	230-2380 (9)
重量 Weight (kg)		121	209
1. 實際工作能力與刀具銳利度、潤滑及冷卻有密切關係。 2. 特殊材質、尺寸須配合特製轉速。 1. The practical working abilities are very related to sharpness on drill bit, good lubrication and suitable cooling. 2. Customized spindle speed might be required for particular materials or drilling sizes.			

★ 外觀尺寸請參考 P.22

Appearance Dimensions Please View Page 22.

自動鑽床 (油壓)

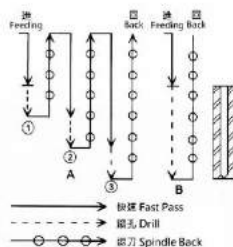
Automatic Drilling Machine (Hydraulic)



操作影片
Operating Video



► HD-POM750



★ 外觀尺寸請參考 P.22

Appearance Dimensions Please View Page 22.

型號 Model		HD-POM750
規格 Specifications		自動 (油壓式) Automatic (Hydraulic)
進刀方式 Stroke		
主軸型式 Spindle Type	主軸斜度 Inside Spindle	MT3
	鼻端斜度 For Chuck	JT6
工作能力 Working Ability	中碳鋼 Steel (S45C)	5-25
主軸行程 Spindle Travel (mm)		133
馬達 Motor		2HP-6P
主軸轉速 (段數) Spindle Speed RPM (Steps)	50HZ	160-1342 (9)
	60HZ	190-1610 (9)
重量 Weight (kg)		229 (含油壓動力單元 With Hydraulic Unit)
1. 實際工作能力與刀具銳利度、潤滑及冷卻有密切關係。 2. 特殊材質、尺寸須配合特製彈簧。		
1. The practical working abilities are very related to sharpness on drill bit, good lubrication and suitable cooling. 2. Customized spindle speed might be required for particular materials or drilling sizes.		

手動攻牙鑽孔機

Manual Tapping & Drilling Machine



► HDT-340



► HDT-25



► HDT-32



型號 Model		HDT-340	HDT-25	HDT-32
規格 Specifications				
進刀方式 Stroke		手動 Manual	手動 Manual	手動 Manual
主軸型式 Spindle Type	主軸斜度 Inside Spindle	MT2	MT3	MT3
	鼻端斜度 For Chuck	JT6	JT6	JT6
工作能力 Working Ability (Steel S45C)	鑽孔能力 Drill Capacity	3-16	5-25	15-32
	攻牙能力 Tapping Capacity	3-13	5-20	15-32
主軸行程 Spindle Travel (mm)		100	140	140
馬達 Motor		1HP-4P	2HP-6P	2HP-6P
主軸轉速 (段數) Spindle Speed RPM (Steps)	50HZ	250-960 (9)	160-1342 (9)	55-175 (4)
	60HZ	300-1150 (9)	190-1610 (9)	65-210 (4)
重量 Weight (kg)		101	204	221
1. 實際工作能力與刀具銳利度、潤滑及冷卻有密切關係。 2. 特殊材質，尺寸須配合特製轉速。				
1. The practical working abilities are very related to sharpness on drill bit, good lubrication and suitable cooling. 2. Customized spindle speed might be required for particular materials or drilling sizes.				

★ 外觀尺寸請參考 P.20 / 21

Appearance Dimensions Please View Page 20 / 21.

自動攻牙機 (齒輪式) Automatic Tapping Machine (Gear Type)



牙距齒輪組
Pitch Gears

► HD-AT12



► HD-AT19



操作影片
Operating Video

- HT1-203
- HT2-223
- HT3-231



型號 Model 規格 Specifications		HD-AT12	HD-AT19	HT1-203	HT2-223	HT3-231
進刀方式 Stroke		自動 Automatic				
主軸型式 Spindle Type	主軸斜度 Inside Spindle	MT2	MT3	X	MT2	MT3
	鼻端斜度 For Chuck	JT6	JT6	JT2	JT6	JT6
工作能力 Working Ability	中碳鋼 Steel (S45C)	3-13	5-20	2-8	5-16	10-32
主軸行程 Spindle Travel (mm)		93	133	45	65	65
馬達 Motor		1HP-4P	2HP-6P	1/2HP-4P	1HP-6P	2HP-6P
主軸轉速 (段數) Spindle Speed RPM (Steps)	50HZ	256-1278 (8)	166-829 (6)	420-1340 (3)	155-515 (3)	50-200 (3)
	60HZ	308-1534 (8)	200-995 (6)	500-1600 (3)	190-620 (3)	60-240 (3)
重量 Weight (kg)		112	234	97	200	250

1. 實際工作能力與刀具銳利度、潤滑及冷卻有密切關係。

2. 特殊材質、尺寸須配合特製轉速。

1. The practical working abilities are very related to sharpness on drill bit, good lubrication and suitable cooling.

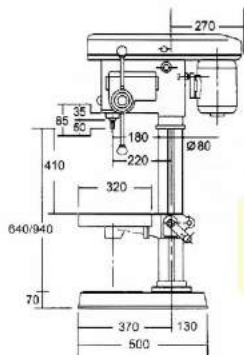
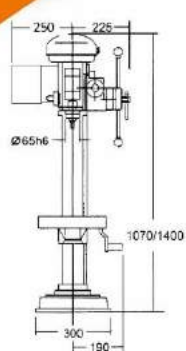
2. Customized spindle speed might be required for particular materials or drilling sizes.

★ 外觀尺寸請參考 P.23 / 24 / 25

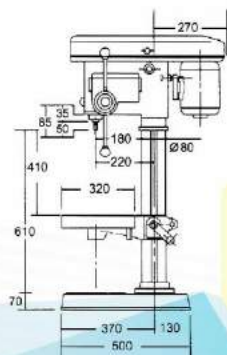
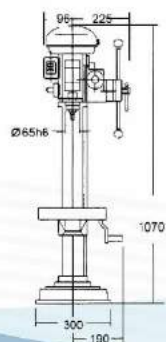
Appearance Dimensions Please View Page 23 / 24 / 25.

外觀尺寸

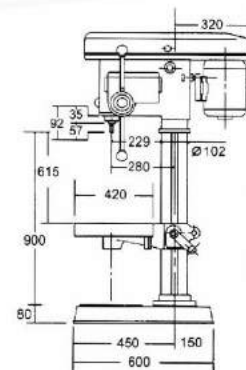
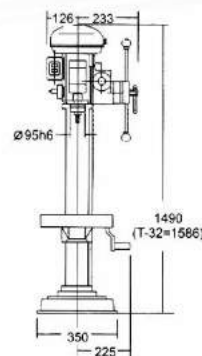
Appearance Dimensions



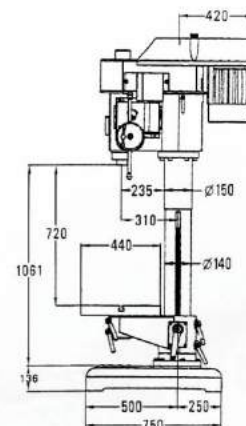
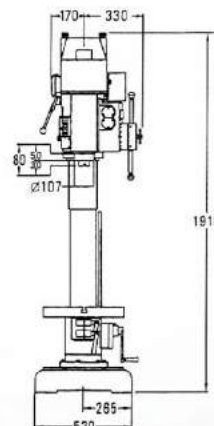
● HD-141



● HD-120
● HD-14
● HD-340
● HDT-340



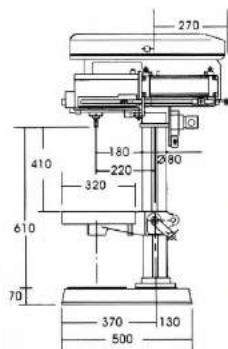
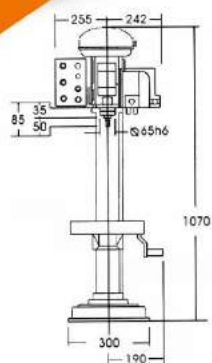
● HD-250
● HD-25
● HDT-25
● HDT-32



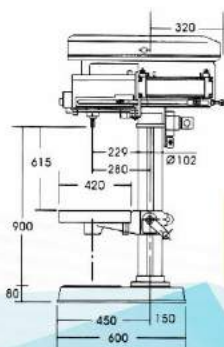
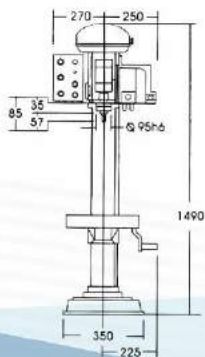
● HD-350

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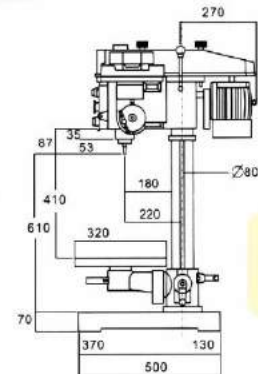
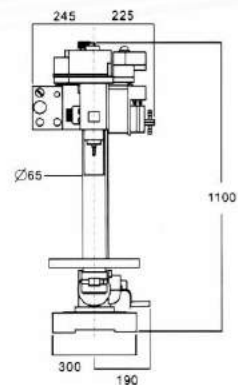
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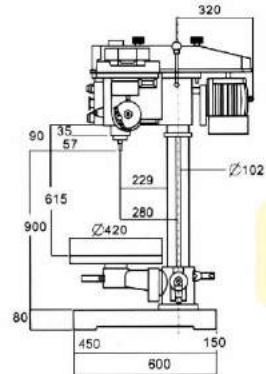
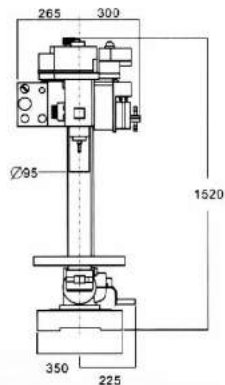
● HD-PAM520



● HD-PAM520L
● HD-POM750



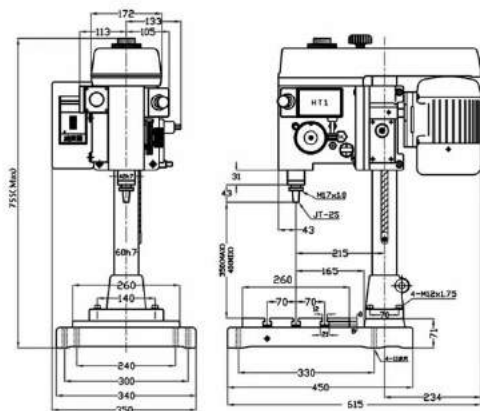
● HD-AT12



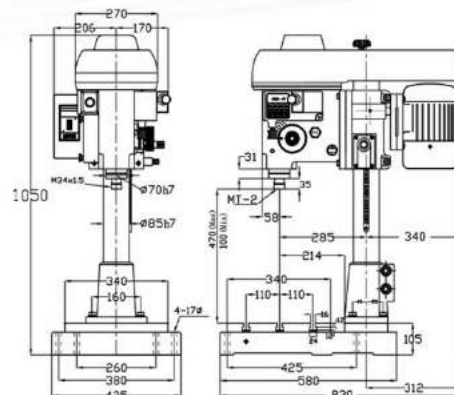
● HD-AT19

外觀尺寸

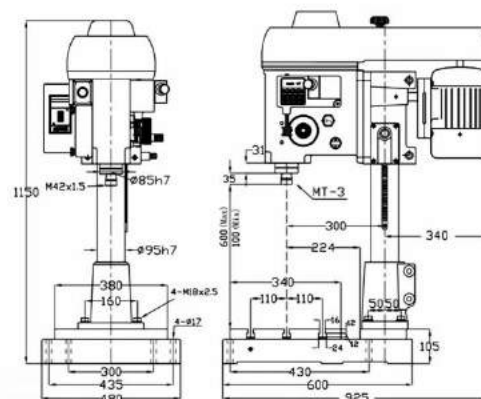
Appearance Dimensions



● HT1-203



● HT2-223



● HT3-231

常用配件 Accessories



▶ 安全斷電遮罩
Safety Shield



操作影片
Operating Video



▶ 空 / 油壓夾頭
Pneumatic / Hydraulic Chuck



▶ 鑽夾頭
Drill Chuck

▶ 快速夾頭
Keyless Chuck



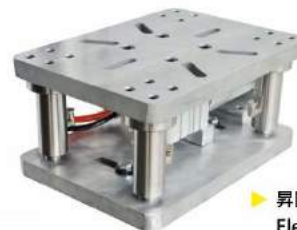
▶ 攻牙夾頭
Tapping Chuck



▶ 鑽床虎鉗
Drill Vise



操作影片
Operating Video



▶ 昇降工作台
Elevating Working Table

常用配件 (精密十字滑台)

Accessories

(Cross Slide Table)



- ▶ 整組滑台軌道，經由精密研磨
- ▶ 可搭配所有機型鑽孔機 / 攻牙機
- ▶ 螺桿背隙小
- ▶ 定位準確高負載
- ▶ 總高度低，適合搭配治具使用
- ▶ This is more accurate cross table and perfect for the machinist.

▶ Features:

- Fine graduations precision grinding
- The backlash is adjustable
- Locks for precise location
- Heavy load on the center

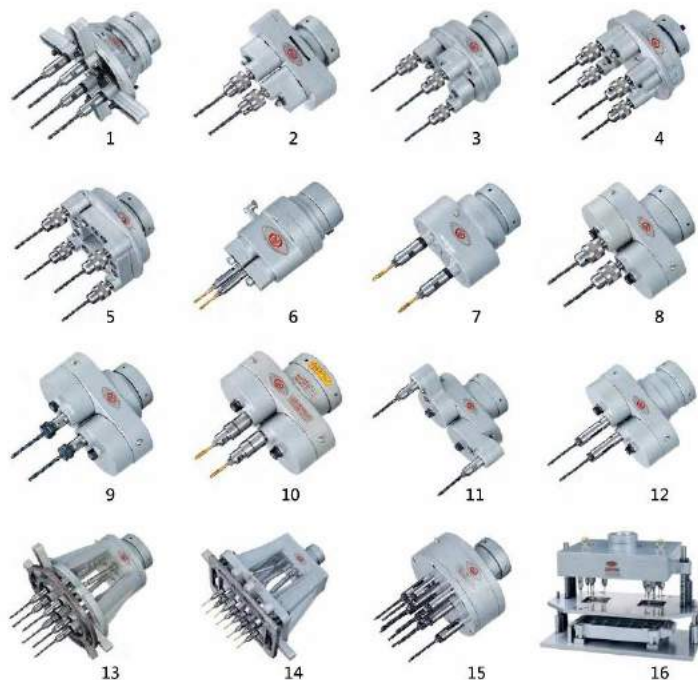
工作台尺寸 Table Size	520mm x 250mm
行程 Travel	X300mm Y250mm *
總高度 Overall Height	115mm (較它牌產品總高度減少 30%) (30% thinner than former type)
手輪刻度 Graduations	0.05
T 型槽尺寸 T-Slot Size	8mm (5/16")
重量 Weight	50kg
表面直度 Straightness Of Surface	0.05
底面與工作台面平行度 Parallelism Between Surface And Bottom	±0.03 / 100mm

可加裝光學尺 Optical scale (linear) is available.

* 加裝於 1HP 機檯，加裝光學尺，Y 軸行程將略為減少

* Y axis may cut short when mounted on 1HP drill machine.

★ 多軸鑽孔攻牙器 Multiple Spindle Head



Multiple Spindle Head Order Information



▶ 初步報價請提供：

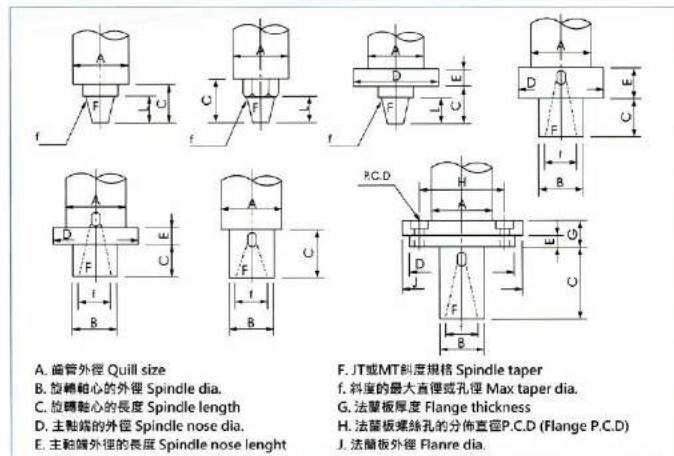
- (1) 軸數
- (2) 鑽孔 / 攻牙直徑
- (3) 軸間距
- (4) 工作物材質



▶ Need Following Info To Offer Basic Quotation :

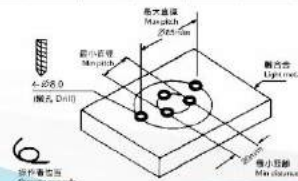
- (1) Number Of Spindles
- (2) Drill / Tap Diameter
- (3) Distance Between Spindles
- (4) Material Working Object Made Of

▶ 組裝頭部規格 Type Of Spindle To Install



機台頭部尺寸 Machine Detail											
廠牌 Company Name	機型 Machine Type	A±0.01	B	C	D±0.01	E	F	f	G	H	J

機種選擇注意事項 Specification & Selection												
加工方式 Machining Way		加工材料及物數 Material				螺絲大小 Drill Dia.		z 軸間距 Held Pitch		機台使用方向 Machine Type		
鑽孔 Drilling	攻牙 Tapping	銼孔 Boring	銼鋼 Steel	鑄鋼 Casting Iron	鋁合金 Light metal	最大 Max dia.	最小 Min dia.	最大 Max pitch	最小 Min pitch	立式 Vertical	臥式 Horizontal	斜式 Low angle
												調整板 Bash



螺絲孔 Pitch Between Guiding Poles	定位孔 Positioning Holes	防水板 Water Proof Plate

多軸鑽孔攻牙器 T 型

Multiple Spindle Head Type T

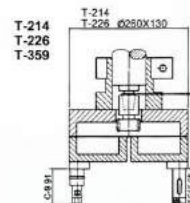
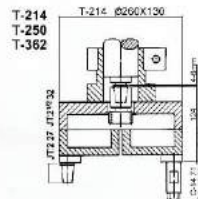
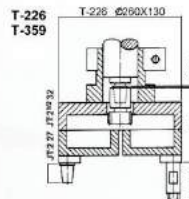
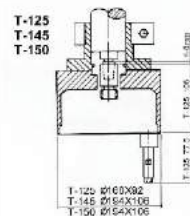
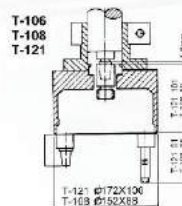
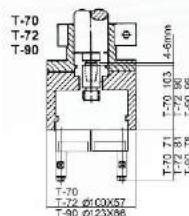


▶ T-70
▶ T-72
▶ T-90



▶ T-214
▶ T-226
(浮動型 Floating Model)

★ 專利字號 79022
Taiwan Patent No. 79022



Type	T70	T72	T90	T106	T108	T121	T125	T145	T150	T214	T226	T250	T359	T362
規格 Dimensions														
最大軸心距 (mm) Max. Spindle PCD	70	72	90	108	108	121	125	146	151	214	226	250	359	362
最小軸心距 (mm) Min. Spindle PCD	10	12.7	15	18	18	24	29	29	24	46	34	60	56	56
最大工作能力 Max. Working Capacity	鑽孔能力 (mm) Drill Capacity													
	3	4	5	6	6	8	8	10	8	12	10	16	10	12
與主軸輸出 RPM Ratio To Main Spindle	攻牙能力 Threading Capacity													
	M3	M4	M5	M6	M6	M7	M7	M9	M7	M12	M10	M15	M10	M12
軸數 Numbers Of Spindle	2	2	2	2	2	2	2	2	2	2	2	2	2	2
軸承型式 Support Bearing Type	(B=滾珠軸承, C=銅套) (B=Ball Bearing, C=Copper)													
	C	C	C	B	C	C	B	B	B	B	B	B	B	B

★ 可換成ER夾頭或鑽夾頭 ER Collets And Drill Chuck Models Are Available

多軸鑽孔攻牙器 QU / QNU 型

Multiple Spindle Head

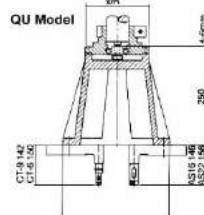
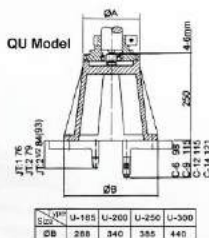
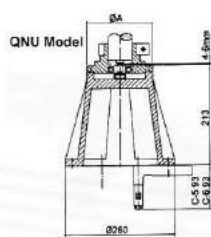
Type QU / QNU



► QU / QNU Model



► QU / QNU Model

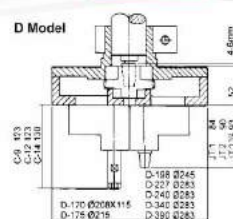
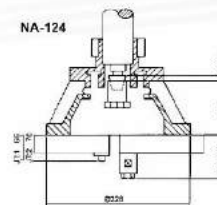
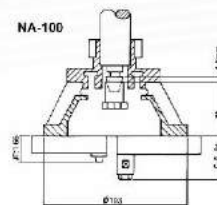


規格 Dimensions	型號 Type	QNU165	QU165	QU200	QU250	QU300
最大軸心距 (mm) Max. Spindle PCD		165	165	200	250	300
最小 2 軸心距 (mm) Min. Spindle Pitch By Every 2 Spindles		12.7	C6= 18.7 C9= 29	C6= 18.7 C9= 29	C6= 18.7 C9= 29	C6= 18.7 C9= 29
最大工作能力 Max. Working Capacity	鑽孔能力 (mm) Drill Capacity	4.5	C6= 6.0 C9= 8.0	C6= 6.0 C9= 8.0	C6= 6.0 C9= 8.0	C6= 6.0 C9= 8.0
	攻牙能力 Tapping Capacity	M4	C6= M6 C9= M10	C6= M6 C9= M10	C6= M6 C9= M10	C6= M6 C9= M10
與主軸轉速比 RPM Ratio To Main Spindle		1:1	1:1	1:1	1:1	1:1
軸數 Numbers Of Spindle		2-8	2-8	2-10	2-12	2-12

★ 可換成ER夾頭 ER Collets Models Are Available

多軸鑽孔攻牙器 NA / D 型

Multiple Spindle Head Type NA / D



規格 Dimensions	型號 Type	NA100	NA124
最大軸心距 Max. Spindle PCD (mm)		100	125
最小軸心距 Min. Spindle PCD (mm)		25 (4 軸 4-spindle)	38 (4 軸 4-spindle)
最小 2 軸心距 (mm) Min. Spindle Pitch By Every 2 Spindles		18.7	27
最大工作能力 Max. Working Capacity	鑽孔能力 (mm) Drill Capacity 攻牙能力 Tapping Capacity	6 M6	8 M8
與主軸轉速比 RPM Ratio To Main Spindle		1:1 or 1:1.3	1:1 or 1:1.3
軸數 Numbers Of Spindle		2-4	2-4

規格 Dimensions	型號 Type	D170	D175	D192	D198	D227	D240	D340	D390
最大軸心距 (mm) Max. Spindle PCD		170	170	177	198	227	240	342	390
最小軸心距 (mm) Min. Spindle PCD		38	43	52	61	98	85	208	245
最小 2 軸心距 (mm) Min. Spindle Pitch By Every 2 Spindles		38	38	38	43	37	56	56	56
最大工作能力 Max. Working Capacity	鑽孔能力 (mm) Drill Capacity 攻牙能力 Tapping Capacity	13 M10	13 M10	6.5 M8	10 M10	6.5 M8	13 M10	13 M10	13 M10
與主軸轉速比 RPM Ratio To Main Spindle		1:2.7	1:2.7	1:3	1:2.9	1:5.1	1:3.3	1:3.3	1:3.3
軸數 Numbers Of Spindle		2	3	4	4	6	4	4	4

★ 可換成ER夾頭或鑽夾頭 ER Collets And Drill Chuck Models Are Available

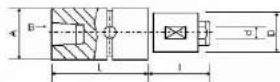
筒夾與特製心軸

Collets & Special Spindles



▶ 浮動單軸心軸

Floating Spindle For Tapping



規格 Dimensions	A	B	L	I	D	d
FCJ-5	Ø26	JT2, JT6	65	46	Ø12	Ø2~Ø5.5
FCJ-6	Ø26	JT2, JT6	65	50	Ø17	Ø2~Ø6
FCJ-9	Ø26	JT2, JT6	65	66	Ø19	Ø3~Ø8
FCJ-9	Ø34	JT6	72	37	Ø26	Ø3~Ø8
FCJ-9	Ø34	M17xP1.0+JT2	77	37	Ø26	Ø3~Ø8
FCJ-9	Ø34	M20xP1.0+JT6	78	37	Ø26	Ø3~Ø8
FCJ-12	Ø34	JT6	72	37	Ø26	Ø6~Ø11
FCJ-12	Ø34	M17xP1.0+JT2	77	37	Ø26	Ø6~Ø11
FCJ-12	Ø34	M20xP1.0+JT6	78	37	Ø26	Ø6~Ø11
FCJ-14	Ø34	JT6	72	68	Ø30	Ø8~Ø13
FCJ-14	Ø34	M17xP1.0+JT2	77	68	Ø30	Ø8~Ø13
FCJ-14	Ø34	M20xP1.0+JT6	78	68	Ø30	Ø8~Ø13
FCJ-16	Ø58	JT3	98	43	Ø44	Ø10~Ø16
FCJ-16	Ø58	JT4	110	43	Ø44	Ø10~Ø16
FCJ-20	Ø58	JT3	98	46	Ø44	Ø13~Ø18
FCJ-20	Ø58	JT4	110	47	Ø44	Ø13~Ø18
FCJ-30	Ø58	JT4	110	48	Ø58	Ø16~Ø28

★ 以上均可供單軸使用 Both Available For Single And Multiple Spindle

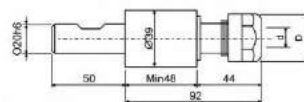
▶ 筒夾規格 Dimensions Of Collets

CT Type (攻牙用 For Tapping)	N1 NT1	C-9 CT-9	C-16 CT-16
C Type (鑽孔用 For Drilling)	C-5 CT-5	C-12 CT-12	
CS Type (鑽孔用、內付牙) (For Drilling And Chamfering)	C-6 CT-6	C-14 CT-14	

註：銼刀、圓棒、磨棒、鑽刀、鑽角刀、高螺旋鑽頭、或左旋螺絲等刀具使用時，請於訂購時說明。
Please notice us the type of cutting tool you are using (Ex: Reamer, Milling, Drilling, Tapping...)

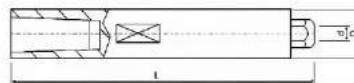
▶ 浮動心軸

Floating Spindle For Tapping



▶ 延長軸 (可客製DØ10以上)

Length Extending Spindle



規格 Dimensions	L	B	D	d
JC-9	85	JT6	Ø24	Ø3~Ø8
JC-12	85	JT6	Ø24	Ø6~Ø11
JC-14	92	JT6	Ø30	Ø8~Ø13
JC-16	115	JT3	Ø42	Ø10~Ø16
			Ø10	Ø1.1~Ø4

★ 以上均可供單軸使用 Both Available For Single And Multiple Spindle

冷卻鐵筒架 Coolant

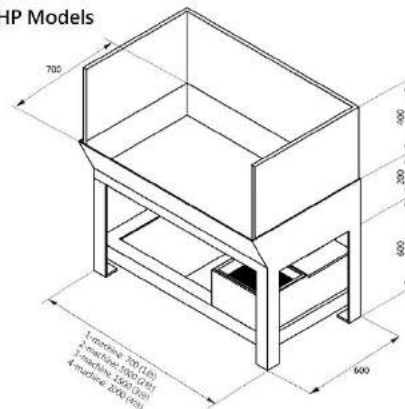


► 1HP 機型
For 1HP Models

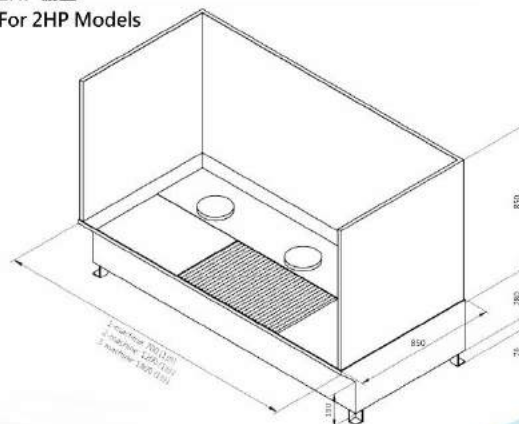


► 2HP 機型
For 2HP Models

► 1HP 機型
For 1HP Models



► 2HP 機型
For 2HP Models

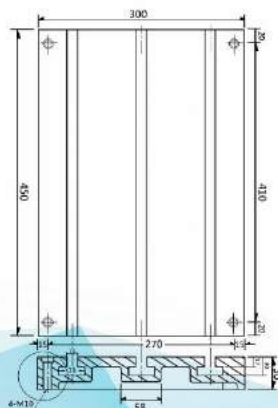


★ 接受客製訂單 Customized Service Is Available

連立工作桌合冷卻 Working Table

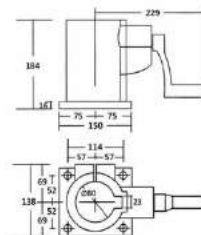
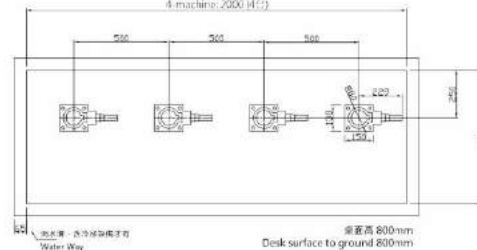


▶ 選配：T型槽治具板
Additional Attached : Fixture Plate



▶ 1HP 機型 For 1HP Models

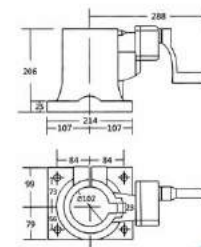
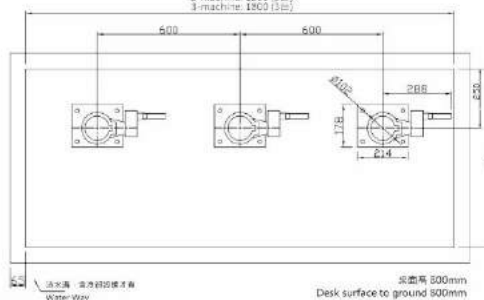
- 1 machine: 600 (1 set)
- 2 machine: 1050 (2 set)
- 3 machine: 1500 (3 set)
- 4 machine: 2000 (4 set)



▲ 建立中匠 Table Base

▶ 2HP 機型 For 2HP Models

- 1 machine: 700 (1 set)
- 2 machine: 1200 (2 set)
- 3 machine: 1800 (3 set)



▲ 建立中匠 Table Base

★ 接受客製訂單 Customized Service Is Available