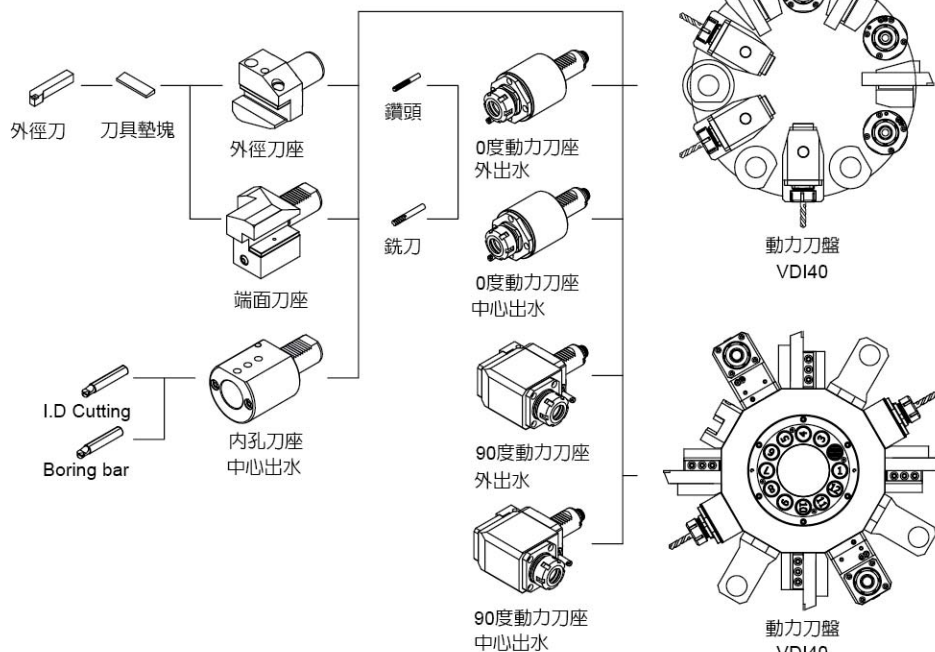
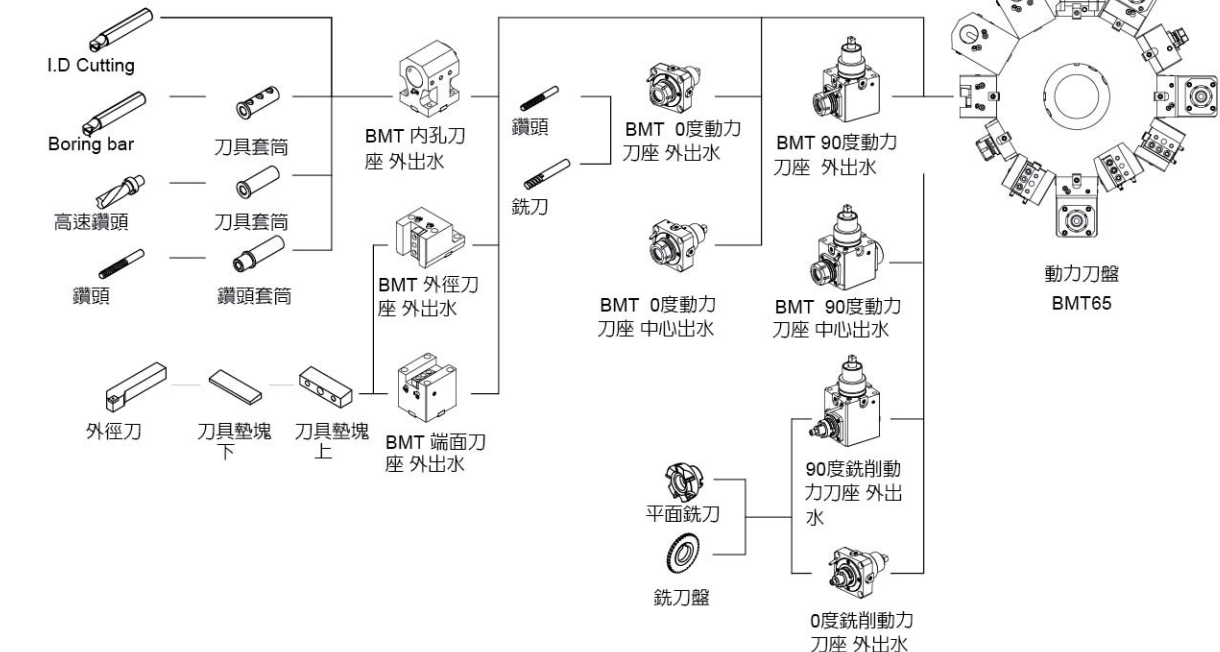


# Tool System 刀具系統

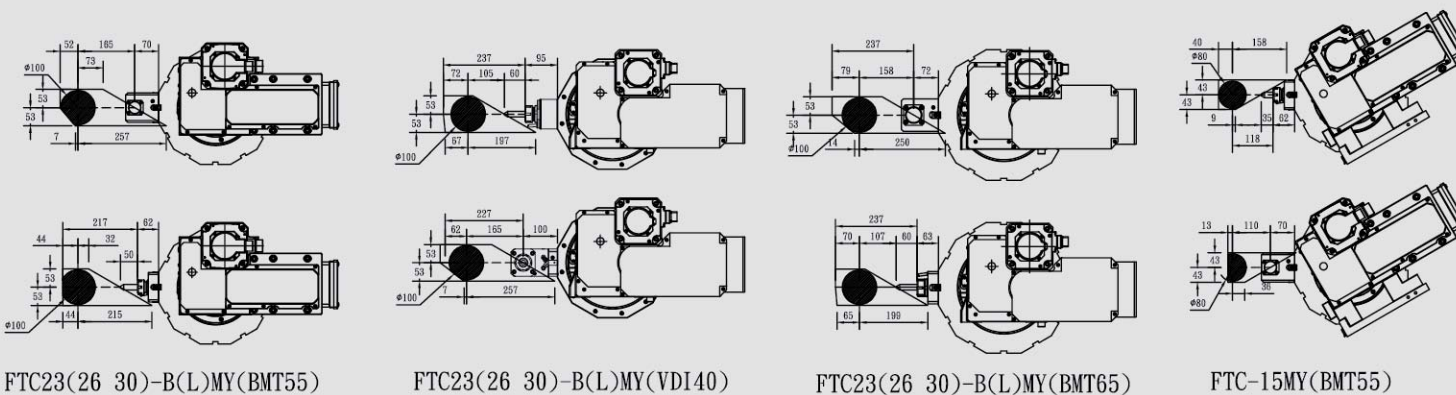
## VDI Tool Holder System



## BMT Tool Holder System



## Working capacity 刀具加工範圍(徑向)

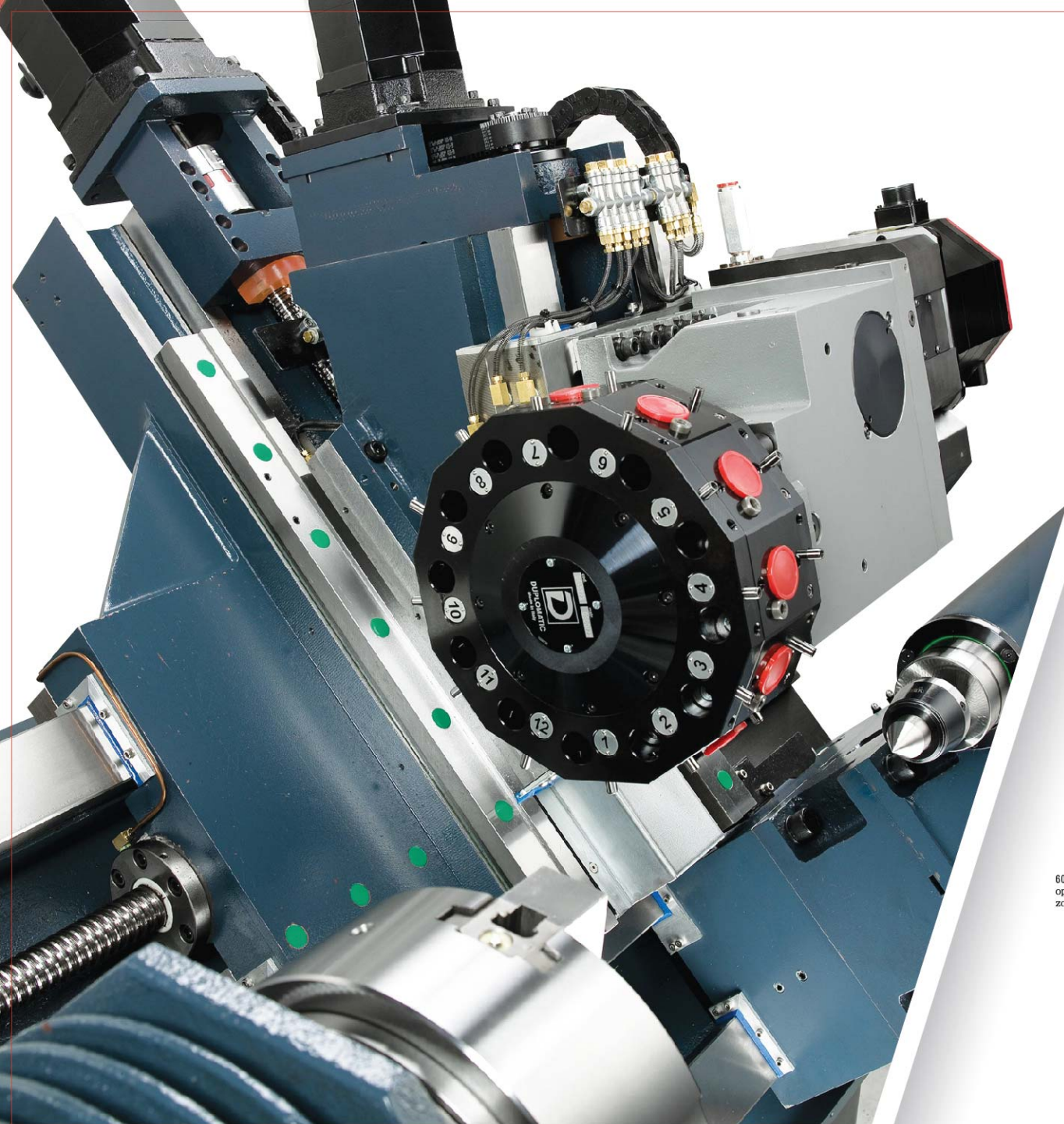


| AEGIS                            |                   |                  |                            |                  |                  |                  |                  |                  |                     |                  |                  |                  |                  |                  |
|----------------------------------|-------------------|------------------|----------------------------|------------------|------------------|------------------|------------------|------------------|---------------------|------------------|------------------|------------------|------------------|------------------|
| B: Box way   L: Linear Guide way |                   |                  |                            |                  |                  |                  |                  |                  |                     |                  |                  |                  |                  |                  |
| 機 型                              | FTC-15M           | FTC-15MY         | FTC-23BM                   | FTC-26BM         | FTC-30BM         | FTC-23LM         | FTC-26LM         | FTC-30LM         | FTC-23BMY           | FTC-26BMY        | FTC-30BMY        | FTC-23LMY        | FTC-26LMY        | FTC-30LMY        |
| 床台最大旋徑                           | Ø540mm            | Ø870mm           | Ø600mm                     | Ø600mm           | Ø650mm           | Ø600mm           | Ø600mm           | Ø650mm           | Ø600mm              | Ø600mm           | Ø650mm           | Ø600mm           | Ø600mm           | Ø650mm           |
| 床鞍最大旋徑                           | Ø340mm            | Ø630mm           | Ø350mm                     | Ø350mm           | Ø420mm           | Ø350mm           | Ø350mm           | Ø420mm           | Ø360mm              | Ø360mm           | Ø440mm           | Ø360mm           | Ø360mm           | Ø440mm           |
| 兩頂心距離                            | 380mm             | 389mm            | 588/888/1188mm             | 583/883/1183mm   | 583/883/1183mm   | 604/904/1204mm   | 599/899/1199mm   | 599/899/1199mm   | 574/874/1174mm      | 569/869/1169mm   | 569/869/1169mm   | 549/849/1149mm   | 544/844/1144mm   | 544/844/1144mm   |
| 標準加工徑                            | Ø200mm            |                  | Ø230mm                     |                  |                  |                  |                  |                  |                     |                  |                  |                  |                  |                  |
| 最大車削直徑                           | Ø240mm            | Ø220mm           | Ø290mm                     |                  |                  |                  |                  |                  | Ø300mm              |                  |                  |                  |                  |                  |
| 最大加工長度                           | 311mm             |                  | 520/820/1120mm             | 515/815/1115mm   | 515/815/1115mm   | 500/800/1100mm   | 495/895/1195mm   | 495/895/1195mm   | 509/809/1109mm      | 504/804/1104mm   | 504/804/1104mm   | 483/783/1083mm   | 478/778/1078mm   | 478/778/1078mm   |
| 主軸馬達功率                           | 9/11kw            | 9/11kw           | 11/15kw                    | 15/18.5kw        | 15/18.5kw        | 11/15kw          | 15/18.5kw        | 15/18.5kw        | 11/15kw             | 15/18.5kw        | 15/18.5kw        | 11/15kw          | 15/18.5kw        | 15/18.5kw        |
| 主軸最高轉速                           | 4200rpm           | 4200rpm          | 4200rpm                    | 3200rpm          | 3000rpm          | 4200rpm          | 3200rpm          | 3000rpm          | 4200rpm             | 3200rpm          | 3000rpm          | 4200rpm          | 3200rpm          | 3000rpm          |
| 主軸鼻端型式                           | A2-6              |                  | A2-6                       | A2-8             | A2-8             | A2-6             | A2-8             | A2-8             | A2-6                | A2-8             | A2-8             | A2-6             | A2-8             | A2-8             |
| 主軸通孔徑                            | Ø62mm(75OPT)      |                  | Ø62mm(75OPT)               | Ø92mm(105OPT)    | Ø92mm(105OPT)    | Ø62mm(75OPT)     | Ø92mm(105OPT)    | Ø92mm(105OPT)    | Ø62mm(75OPT)        | Ø92mm(105OPT)    | Ø92mm(105OPT)    | Ø62mm(75OPT)     | Ø92mm(105OPT)    | Ø92mm(105OPT)    |
| 棒材最大加工直徑                         | Ø52mm(65OPT)      |                  | Ø52mm(65OPT)               | Ø75mm(92OPT)     | Ø75mm(92OPT)     | Ø52mm(65OPT)     | Ø75mm(92OPT)     | Ø75mm(92OPT)     | Ø52mm(65OPT)        | Ø75mm(92OPT)     | Ø75mm(92OPT)     | Ø52mm(65OPT)     | Ø75mm(92OPT)     | Ø75mm(92OPT)     |
| 主軸前端軸承直徑                         | Ø100mm            | Ø110mm           | Ø100mm                     | Ø130mm           | Ø130mm           | Ø100mm           | Ø130mm           | Ø130mm           | Ø100mm              | Ø130mm           | Ø130mm           | Ø100mm           | Ø130mm           | Ø130mm           |
| 尾座心軸錐度                           | MT#4              |                  | MT#4/MT#5(OPT)             | MT#4/MT#5(OPT)   | MT#5             | MT#4/MT#5(OPT)   | MT#4/MT#5(OPT)   | MT#5             | MT#4/MT#5(OPT)      | MT#4/MT#5(OPT)   | MT#5             | MT#4/MT#5(OPT)   | MT#4/MT#5(OPT)   | MT#5             |
| 尾座心軸直徑                           | Ø80mm             |                  | Ø80mm                      | Ø80mm            | Ø100mm           | Ø80mm            | Ø80mm            | Ø100mm           | Ø80mm               | Ø80mm            | Ø100mm           | Ø80mm            | Ø80mm            | Ø100mm           |
| 尾座心軸行程                           | 70mm              | 70mm             | 70mm                       | 80mm             | 80mm             | 70mm             | 80mm             | 80mm             | 70mm                | 80mm             | 80mm             | 70mm             | 80mm             | 80mm             |
| X軸行程                             | 190mm             | 198mm            | 205mm                      |                  |                  |                  |                  |                  | 264mm               |                  |                  |                  |                  |                  |
| Z軸行程                             | 355mm             |                  | 560/860/1160mm             | 555/855/1155mm   | 555/855/1155mm   | 540/840/1140mm   | 535/835/1135mm   | 535/835/1135mm   | 550/850/1150mm      | 545/845/1145mm   | 545/845/1145mm   | 525/825/1125mm   | 520/820/1120mm   | 520/820/1120mm   |
| Y軸行程                             |                   | ±40mm            |                            |                  |                  |                  |                  |                  | ±50mm               | ±50mm            | ±50mm            | ±50mm            | ±50mm            | ±50mm            |
| ZS軸行程                            |                   |                  |                            |                  |                  |                  |                  |                  | (580/880/1180mmOPT) |                  |                  |                  |                  |                  |
| X軸快速位移速度                         | 20m/min           |                  | (B:)20m/min / (L:) 24m/min |                  |                  |                  |                  |                  |                     |                  |                  |                  |                  |                  |
| Z軸快速位移速度                         | 20m/min           |                  | (B:)20m/min / (L:) 24m/min |                  |                  |                  |                  |                  |                     |                  |                  |                  |                  |                  |
| Y軸快速位移速度                         |                   | 15m/min          |                            |                  |                  |                  |                  |                  | 15m/min             |                  |                  |                  |                  |                  |
| ZS軸快速位移速度                        |                   |                  | (B:)20m/min / (L:) 24m/min |                  |                  |                  |                  |                  |                     |                  |                  |                  |                  |                  |
| 最小輸入單位                           | 0.001mm           | 0.001mm          | 0.001mm                    |                  |                  |                  |                  |                  |                     |                  |                  |                  |                  |                  |
| 動力刀馬達功率                          | 2.2/3.7kw         |                  | 3.7/5.5kw                  |                  |                  |                  |                  |                  |                     |                  |                  |                  |                  |                  |
| 動力刀具最高回轉數                        | 4000 rpm          |                  | 4000 rpm                   |                  |                  |                  |                  |                  |                     |                  |                  |                  |                  |                  |
| 動力刀座型式                           | BMT55(VDI-40 OPT) |                  | BMT65(VDI-40 or VDI-50OPT) |                  |                  |                  |                  |                  |                     |                  |                  |                  |                  |                  |
| 刀柄尺寸                             | 25mm              |                  | 25mm                       |                  |                  |                  |                  |                  |                     |                  |                  |                  |                  |                  |
| 搪孔刀最大尺寸                          | 40mm              |                  | 40mm                       |                  |                  |                  |                  |                  |                     |                  |                  |                  |                  |                  |
| 刀塔刀具數                            | 12 tools          |                  | 12 tools                   |                  |                  |                  |                  |                  |                     |                  |                  |                  |                  |                  |
| 相鄰刀換刀時間                          | 0.4sec            |                  | 0.47sec                    |                  |                  |                  |                  |                  |                     |                  |                  |                  |                  |                  |
| 機器尺寸                             | 3340x1700x1700mm  | 3519x1628x2035mm | 3884x1885x1860mm           | 3884x1885x1860mm | 3884x1885x1860mm | 3884x1885x1860mm | 3884x1885x1860mm | 3884x1885x1860mm | 3884x1885x2150mm    | 3884x1885x2150mm | 3884x1885x2150mm | 3884x1885x2150mm | 3884x1885x2150mm | 3884x1885x2150mm |
| 機器重量                             | 3600kg            | 3850kg           | 5100kg                     | 5250kg           | 5350kg           | 5100kg           | 5250kg           | 5350kg           | 5300kg              | 5450kg           | 5550kg           | 5300kg           | 5450kg           | 5550kg           |

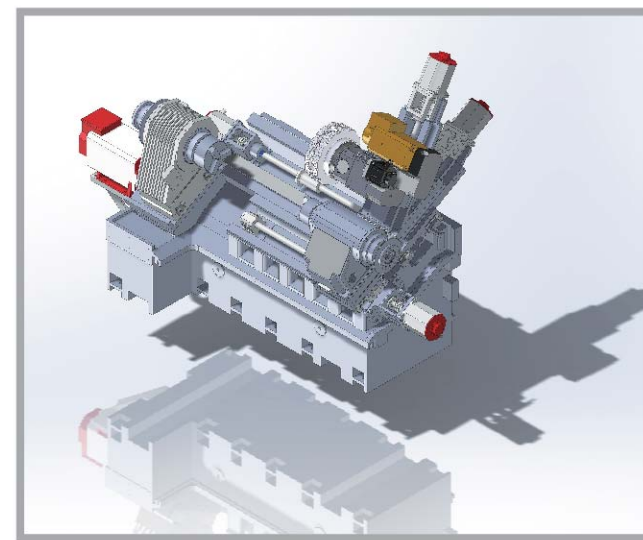


## 車銑複合式 多功能車床





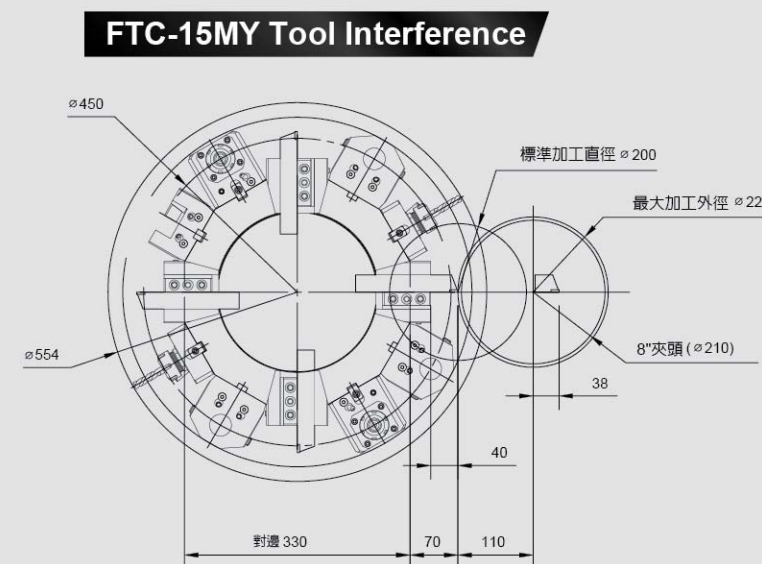
**凡仕成**斜背式數值控制車床，是高剛性、高精度車銑多功能車床，全系列配置12工位動力刀塔與主軸C軸功能相結合，提供客戶在單機上可完成車削、銑削、搪孔、鑽孔與攻牙等複合加工。



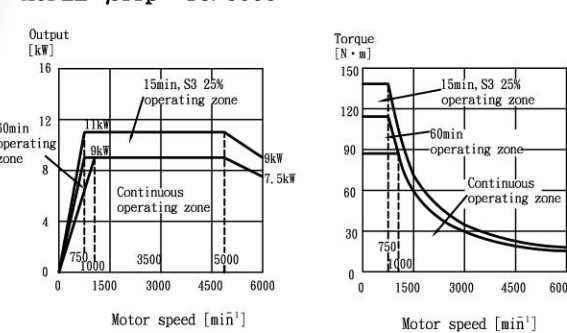
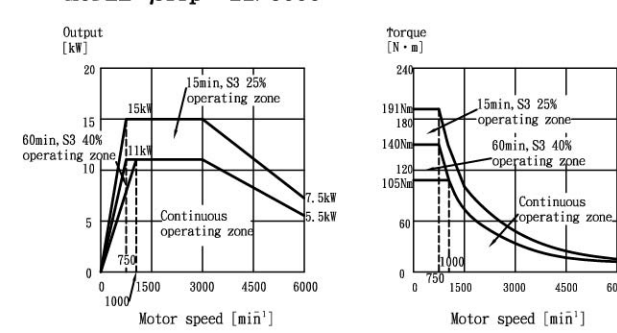
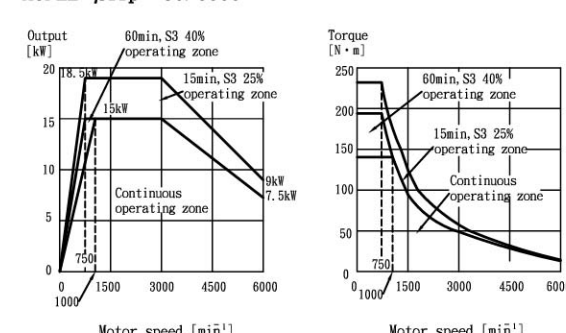
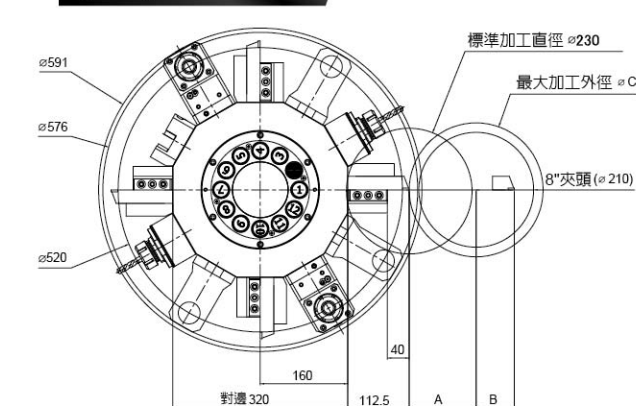
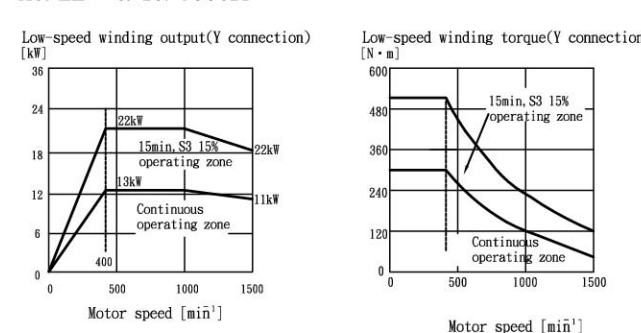
### 可選擇性控制器



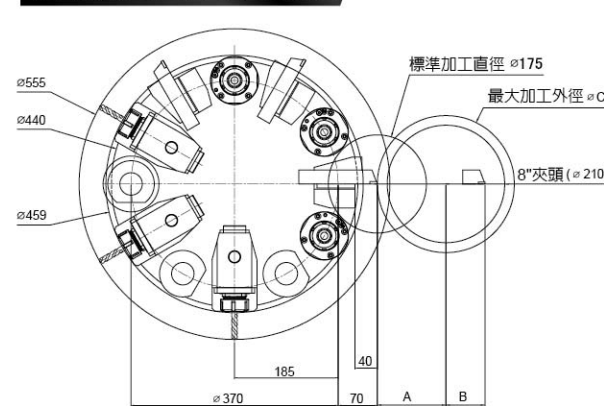
# Tool 刀具干涉 Interference



主軸馬達配備廣域高扭力馬達，  
能在較低轉速作業區間提供重切削能力。

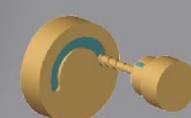
MODEL  $\beta$ IP 18/6000MODEL  $\beta$ Ip 22/6000MODEL  $\beta$ I<sub>p</sub> 30/6000MODEL  $\alpha 40/6000iP$ 

| VDI40     | 單位 | A   | B   | C   |
|-----------|----|-----|-----|-----|
| FTC-23BMY | mm | 140 | 102 | 280 |
| FTC-23LMY | mm | 140 | 102 | 280 |
| FTC-26BMY | mm | 140 | 102 | 280 |
| FTC-26LMY | mm | 140 | 102 | 280 |
| FTC-30BMY | mm | 140 | 102 | 280 |
| FTC-30LMY | mm | 140 | 102 | 280 |



| VDI40    | 單位 | A   | B  | C   |
|----------|----|-----|----|-----|
| FTC-23BM | mm | 148 | 92 | 296 |
| FTC-23LM | mm | 152 | 60 | 304 |
| FTC-26BM | mm | 148 | 92 | 296 |
| FTC-26LM | mm | 152 | 60 | 304 |
| FTC-30BM | mm | 148 | 92 | 296 |
| FTC-30LM | mm | 152 | 60 | 304 |

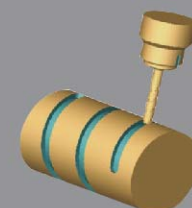
主軸搭配C軸功能，使得機械可以達到千分之一度進行輪廓加工。



## C-Axis Machining



## X-C Axis Machining



## Z-C Axis Machining

## 高剛性結構

一體式床身由高品質米漢納鑄鐵製成，經過應力消除，使得機身可長久保持不變形。

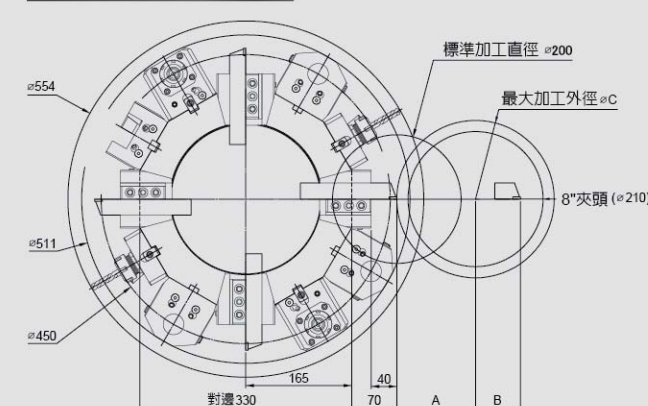
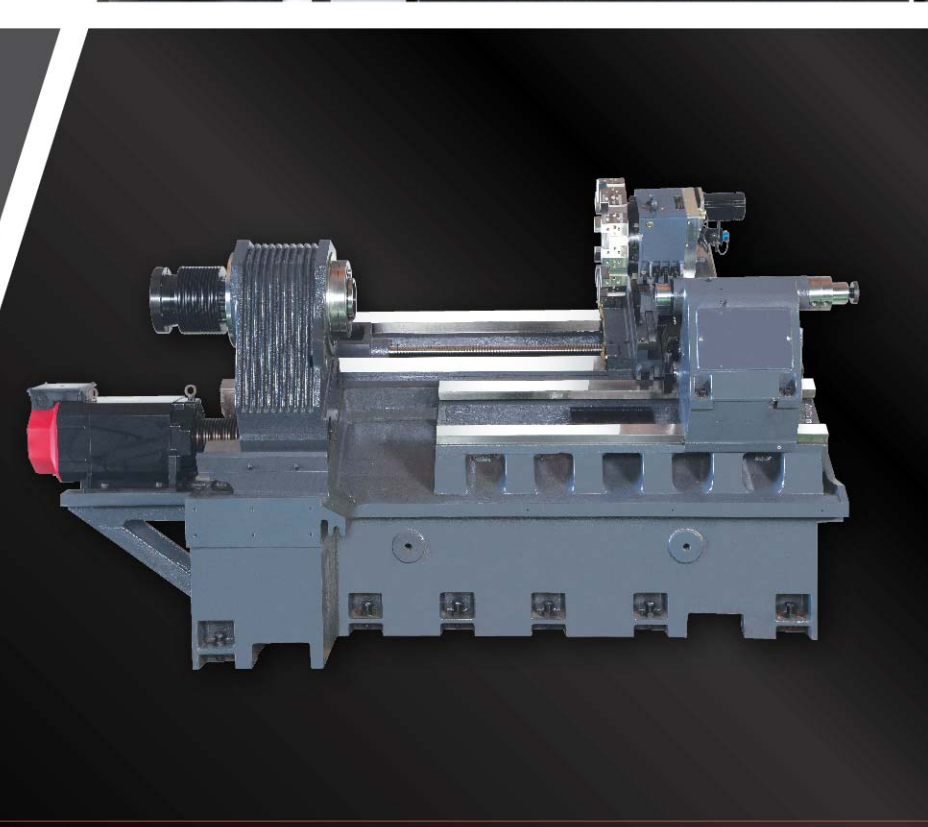
高剛性大型床身和底座結構，具有優良的減震效果硬軌厚度增加30%，使得剛性更佳。

線軌機型採用：日本品牌Tsubaki線性滑軌  
磨擦力小，確動性佳，主要應用在高精度加工  
要求。

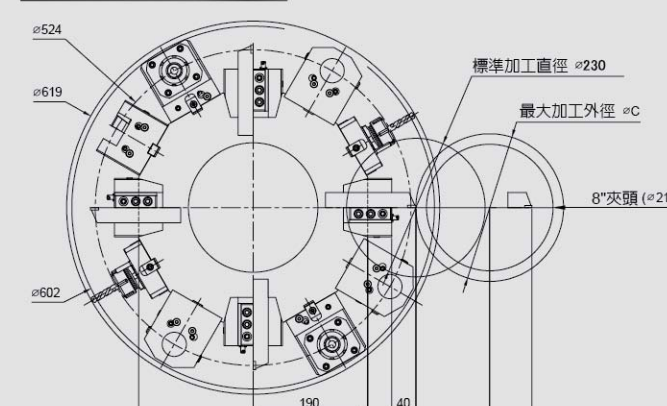
## 複合式車床提供最佳性能

配備Y軸及動力刀塔， $\pm 40\text{mm}$ 或 $\pm 50\text{mm}$ 行程可提供螺紋銑削，複雜的偏心銑削和鑽孔的加工。

Y軸設計是由兩個獨立滑座的同時移動來實現，此種設計經由兩個獨立滑座上分配切削力，確保出絕佳的剛性和精度。



| BMT55    | 單位 | A   | B  | C   | BMT55     | 單位 | A   | B  | C   |
|----------|----|-----|----|-----|-----------|----|-----|----|-----|
| FTC-15M  | mm | 120 | 70 | 240 | FTC-15MY  | mm | 110 | 38 | 220 |
| FTC-23B  | mm | 165 | 60 | 330 | FTC-23BMY | mm | 165 | 52 | 330 |
| FTC-23LM | mm | 153 | 52 | 306 | FTC-23LMY | mm | 165 | 52 | 330 |
| FTC-26B  | mm | 165 | 60 | 330 | FTC-26BMY | mm | 165 | 52 | 330 |
| FTC-26LM | mm | 153 | 52 | 306 | FTC-26LMY | mm | 165 | 52 | 330 |
| FTC-30B  | mm | 165 | 60 | 330 | FTC-30BMY | mm | 165 | 52 | 330 |
| FTC-30LM | mm | 153 | 52 | 306 | FTC-30LMY | mm | 165 | 52 | 330 |



| 約通 360   |    |     |    | 60    | A         | B  |     |    |
|----------|----|-----|----|-------|-----------|----|-----|----|
| BM765    | 單位 | A   | B  | BM765 | 單位        | A  | B   |    |
| FTC-23BM | mm | 145 | 60 | 290   | FTC-23BMY | mm | 150 | 87 |
| FTC-23LM | mm | 149 | 56 | 298   | FTC-23LMY | mm | 150 | 87 |
| FTC-26BM | mm | 145 | 60 | 290   | FTC-26BMY | mm | 150 | 87 |
| FTC-26LM | mm | 149 | 56 | 298   | FTC-26LMY | mm | 150 | 87 |
| FTC-30BM | mm | 145 | 60 | 290   | FTC-30BMY | mm | 150 | 87 |
| FTC-30LM | mm | 149 | 56 | 298   | FTC-30LMY | mm | 150 | 87 |