

## 高品質、高規格、高效能，一切只在坤鉦機械

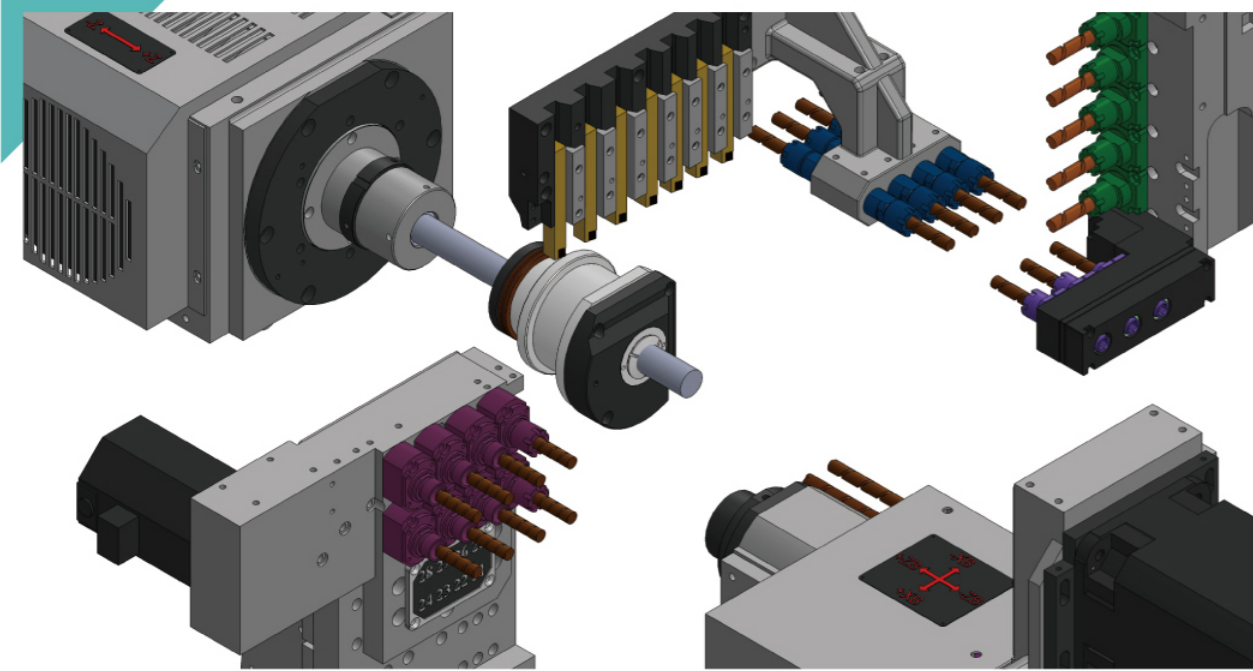
坤鉦推出的KS-20S瑞士型走心式CNC車床，在扎實的機體結構內搭載多組刀座以及正副主軸設計，其主要特色Y2軸使背面加工刀座可做上下偏心加工，強化工件的背面銑削加工能力。

擁有坤鉦KS-20S，小型複雜之各種加工(車削、鑽孔、攻牙、側銑)一次即可快速完成。

另外，我們更嚴選FANUC控制器(雙系統控制器，結合了X1、Z1、Y1、C1、A1及X2、Z2、Y2、C2、B2)同步加工。讓使用者更便於操控並生產製造更多樣化之工件，是不可缺少之幫手。

KS-20S Sliding Head CNC Lathe of Swiss Type from Kuen Jeng is a compactly constructed machine that integrates multiple tool slides with main-spindle and sub-spindle. Its main feature is the additional Y2 axis. The Y2 axis allows rear side machining device to perform up and down eccentric machining to strengthen turning and milling processing of work pieces' reverse side. With the Kuen Jeng KS-20S, complicated small parts machining (turning, drilling, tapping and side milling) can be quickly accomplished in one setup. Moreover, we cherry pick FANUC controller with double control system (X1, Z1, Y1, C1, A1 and X2, Z2, Y2, C2, B2) for machining simultaneously. KS-20S is much easier for users to operate, and it can produce and deal with as diverse as needed. KS-20S is a CNC lathe that you can't miss.

## KS-20S 正面、背面具備Y軸複合式加工 FRONT AND BACK COMPOUND PROCESSING WITH Y-AXIS



### 刀具規格 TOOL SPECIFICATION

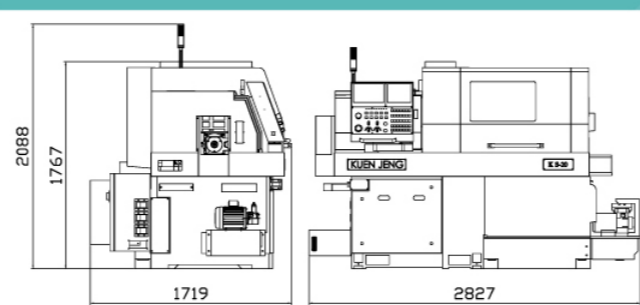
外徑刀具 O.D. TOOLS	7	端面動力刀具 FRONT ECCENTRIC POWERED TOOLS	0-3
正面鑽孔(標準) FRONT DRILLING (STANDARD)	4	背面刀具 REAR SIDE MACHINING TOOLS 【嵌入式動力刀座及固定刀座，可鑽孔、攻牙、車削、銑削，具備Y軸銑削功能。(根據需要自由裝配)】	8
正面鑽孔(深孔) FRONT DRILLING (DEEP HOLE)	2	Embedded live tools and fixed tools can perform drilling、tapping、turning and milling. With the function of Y-axis milling. (Optional)	
徑向動力刀具 RADIAL POWERED TOOLS	6		

機台規格		KS-20	KS-20S
加工能力 CAPACITY	最大加工直徑 最大加工長度	Max. turning diameter Max. turning length	Ø20 205 mm
外徑刀具 O.D. TOOLS	刀具數 刀具規格	Number of tools Size of tools	7 Ø12 mm
內孔刀具 I.D TOOLS	刀具數 套筒規格 最大鑽孔能力 最大攻牙能力	Number of tools Collet specification Max. drilling capacity Max. tapping capacity	4 ER-16X4 Ø10 mm M8*P1.25
側銑動力刀具 SIDE MILLING POWERED TOOLS	刀具數 最大轉速 伺服馬達規格 套筒規格 最大鑽孔能力 最大攻牙能力 最大端銑能力	Number of tools Max. rotating speed Servo motor specification Collet specification Max. drilling capacity Max. tapping capacity Max. end milling	6-10(含選購) (Incl.optional tools)
			6000 (8000) rpm 1.2 kw ER-16 Ø8 M6*P1.0 Ø10 mm
主軸 MAIN SPINDLE	最大轉速 馬達規格 最小分度	Max. rotating speed Motor specification Min. indexing unit	10000 rpm 2.2/3.7 kw 0.001°
快速進給 RAPID TRAVERSE			24 m/min
控制器 CONTROLLER			Fanuc 0i-TF / 10.4" LCD
主軸中心高 CENTER HEIGHT OF MAIN SPINDLE			1060 mm
重量 WEIGHT			3500 KG / 4200 KG
切削油容量 COOLANT CAPACITY			210L
背面加工規格			
背面加工能力 BACK SIDE MACHINING CAPACITY	最大挾持外徑 最大前取長度 最大凸出長度	Max. clamping diameter Max. length of front pick Max. emerged length	Ø20 80 mm 30 mm / 65 mm
	背面刀具 BACK SIDE MACHINING TOOLS	刀具數 最大鑽孔能力(固定) 最大鑽孔能力(動力) 最大攻牙能力(固定) 最大攻牙能力(動力)	4 / 8 Ø8 Ø5 M8*P1.25
副主軸 SUB-SPINDLE	最大轉速 馬達規格 最小分度	Max. rotating speed Motor specification Min. indexing unit	M4*P0.7 6000 (8000) rpm 1.5/2.2 kw 0.001°

尺寸規格若有變更恕不另行通知。

Design and specifications are subject to change without prior notice.

### 佔地面積圖 DIMENSIONS OF MACHINE

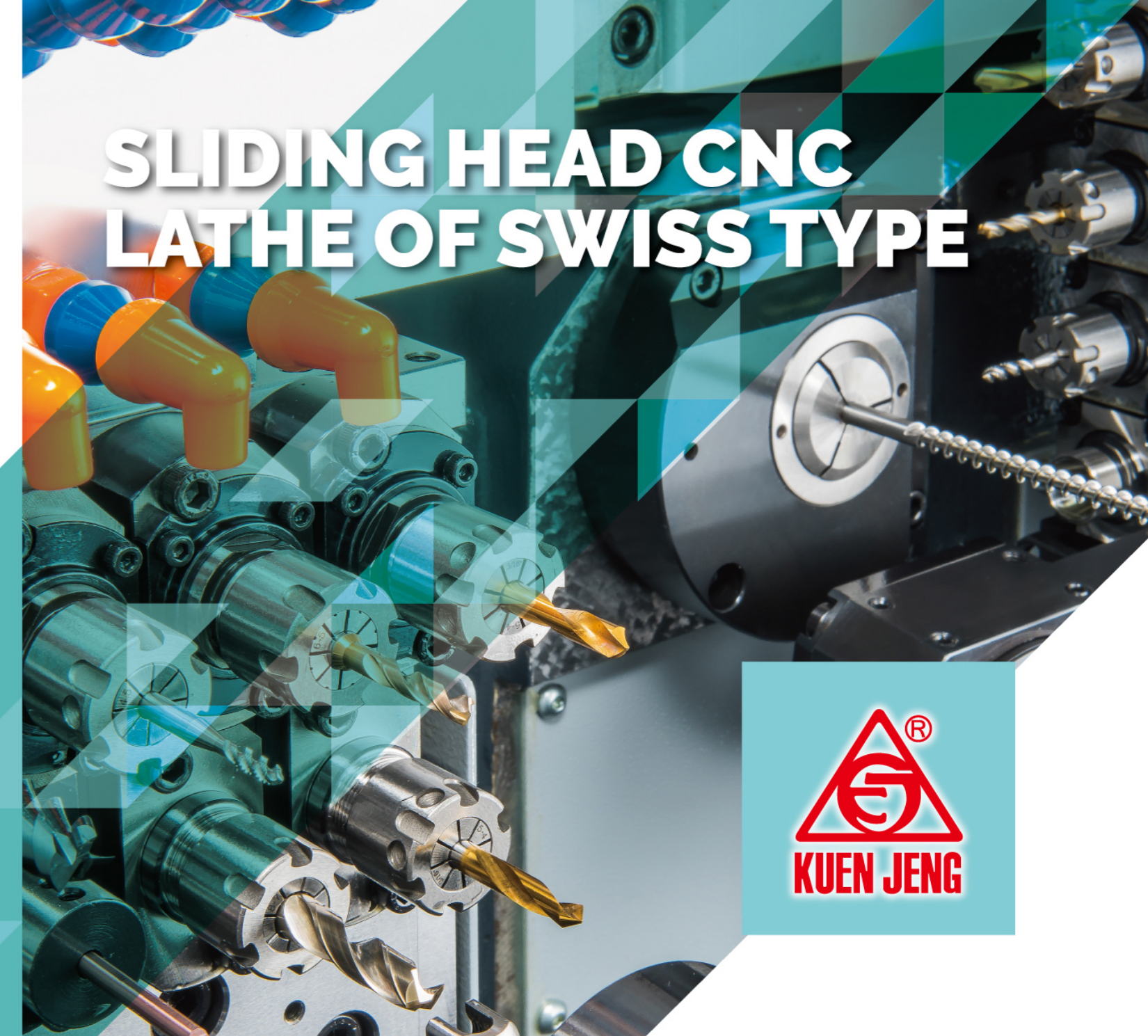


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經銷商 AGENT

# SLIDING HEAD CNC LATHE OF SWISS TYPE



## KS-20/KS-20S 瑞士型走心式 CNC車床

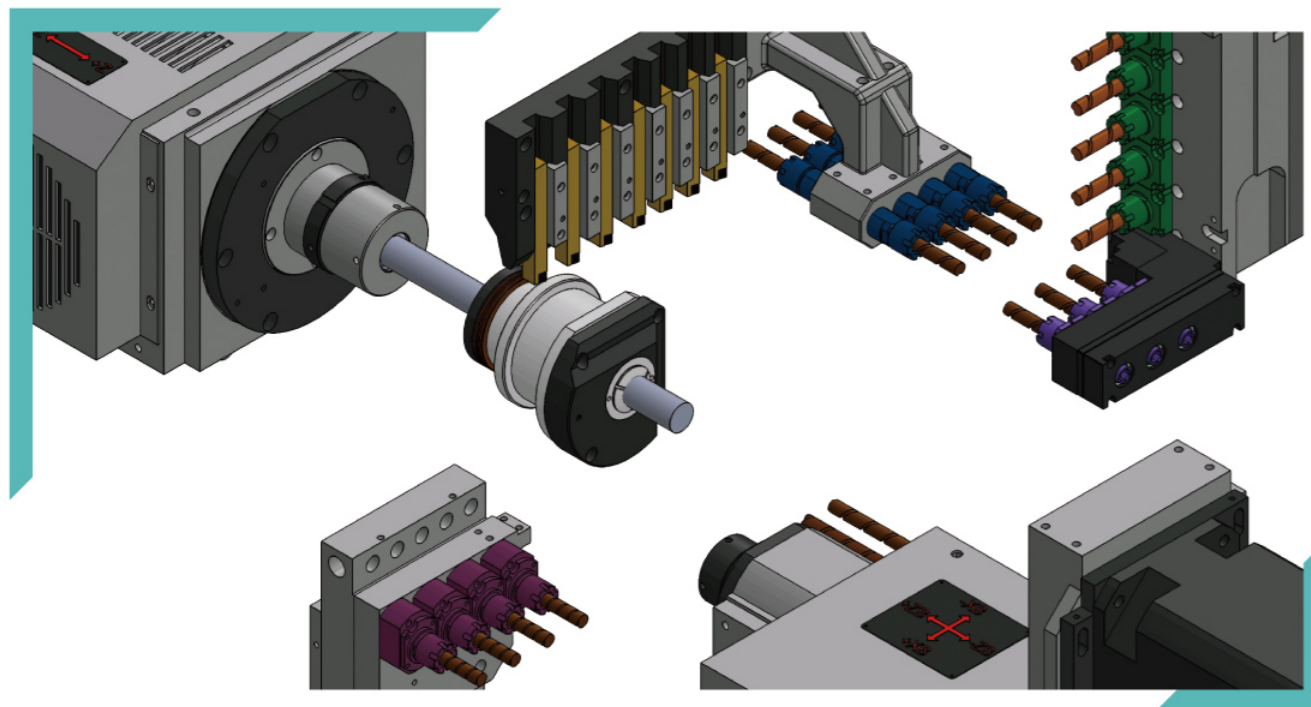
高穩定性 / 高品質 / 卓越切削能力  
High stability / High quality / Outstanding cutting performance



# MULTIPLE TOOL SLIDES

Suitable for fine finishing, and the positioning is accurate.

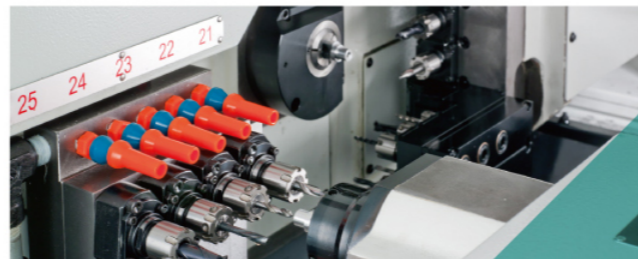
## KS-20 正面、背面複合式加工 FRONT AND BACK COMPOUND PROCESSING



### 刀具規格 TOOL SPECIFICATION

外徑刀具 O.D. TOOLS	7	端面動力刀具 FRONT ECCENTRIC POWERED TOOLS	0-3
正面鑽孔 (標準) FRONT DRILLING (STANDARD)	4	背面刀具 REAR SIDE MACHINING TOOLS	4
正面鑽孔 (深孔) FRONT DRILLING (DEEP HOLE)	2	【嵌入式動力刀座及固定刀座，可鑽孔、攻牙、車削、銑削。(根據需要自由裝配)】	
徑向動力刀具 RADIAL POWERED TOOLS	6	Embedded live tools and fixed tools can perform drilling, tapping, turning and milling. (Optional)	

## C 軸輪廓加工功能 C-AXIS CONTOURING FUNCTION



- 主軸與副主軸都具有C軸功能可執行輪廓加工。
- 主軸與副主軸之分割精度為0.001°，提供高精度的輪廓加工。

- Both main and sub-spindle feature C-axis function, allowing for contour machining.
- Indexing accuracy for main and sub-spindle is 0.001°, providing highly accurate contour machining.

## 迴轉導套 ROTARY GUIDE BUSHING



- 走心式之迴轉導套可確保長工件加工時之穩定性與加工精度。
- 走心式之無導套設計可縮短殘材，節省加工成本。

- The rotary guide bushing in the sliding head design may assure stability, machining accuracy and surface finish, especially when machining long work pieces.
- The fixed head device structure features no guide bushing design, which minimizes the material length of residual and saves machining cost.

## 直結式主軸 DIRECT DRIVE SPINDLE



- 主軸轉速500-10000 rpm。
- 高速直結式主軸提供全動力傳輸無背隙問題。

- Spindle speed range 500-10000 rpm.
- The high speed direct-drive spindle permits full power transmission without backlash problem.

## 走心式主軸頭 SLIDING HEAD

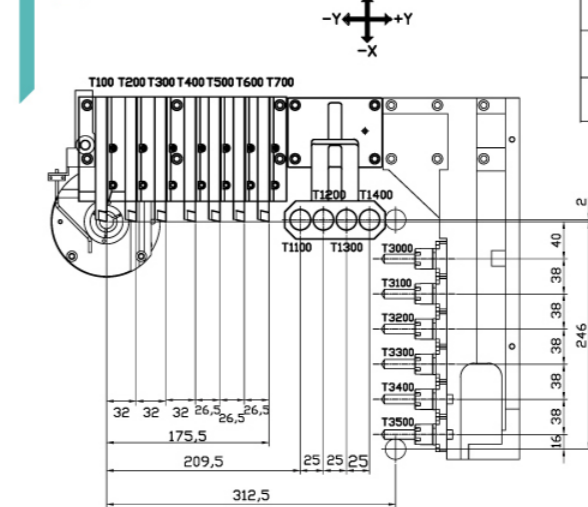
- 主軸頭移動滑道搭配線性滑軌，配合大跨距設計，移動穩定順暢。
- 主軸頭移動採用伺服馬達驅動，定位精準。
- 高精主軸，加工精準，可耐長時間連續作業。

- The spindle head moves on two linear ways with a large span design to achieve maximum stability and smoothness.
- The spindle head movement is driven by a servo motor for highly accurate positioning.
- A high precision spindle permits accurate machining and allows continuous, long time operations.

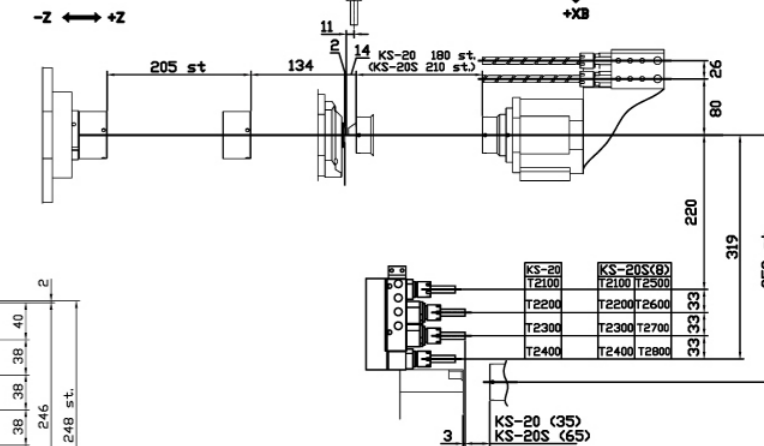


## 加工行程 MACHINING STROKE

### KS-20加工行程A



### 側銑軸動力刀具



### KS-20加工行程B

## 標準配備 STANDARD EQUIPMENT

主軸 MAIN SPINDLE	主軸馬達 主軸C軸 主軸煞車 副主軸	Spindle motor C-axis function on main spindle Main spindle brake Sub-spindle
刀具 TOOLS	徑向動力刀具*6 鑽孔軸 (ER-16*4) 副主軸背面加工刀具 KS-20 (動力刀具*2/標準刀具*2) KS-20S (動力刀具*4/標準刀具*4)	Radial powered tools*6 Drilling spindle ER-16*4 Rear side machining tools for sub-spindle 【KS-20】(powered tools*2 / standard tools*2) 【KS-20S】(powered tools*4 / standard tools*4)
冷卻系統 COOLING SYSTEM	切削油馬達 加壓冷卻系統1.5 MPA 冷卻水箱 冷卻液液位偵測器	Coolant pump High pressure cooling system 1.5 MPA Coolant tank Coolant level sensor
自動化週邊設備 AUTOMATED PERIPHERAL EQUIPMENT	工件檢出裝置 工件接收器 工件輸送帶	Parts detector Parts catcher Parts conveyor

## 選購配備 OPTIONAL EQUIPMENT

附加動力刀具 ADDITIONAL POWERED TOOLS	三軸正向背向動力刀具 (一組) 副主軸背面加工動力刀具	Front and rear machining powered tools on 3 axes (1 set) Rear side machining powered tools for sub-spindle
自動化週邊設備 AUTOMATED PERIPHERAL EQUIPMENT	長料排出裝置 自動送料機 自動送料機介面 油霧回收機	Long parts exhaust device Automatic bar feeder Bar feeder interface Oil mist collector
排屑設備 CHIP EVACUATING DEVICE	鐵屑輸送機 鐵屑車	Chip conveyor Chip bucket
切削液流量檢知 COOLANT FLOW DETECTOR	利用流量檢知器可偵測切削液流量是否不足，當切削液流量不足時，機器自動發出警報並自動停機。	The coolant flow detector is applied to detect when the coolant flow volume is insufficient. In case the detector is activated, an alarm will be triggered and machine stops automatically.