KM2600MTTS

HYUNDAI WIA Multitasking Machine

HYUNDAI WIA

Technical Leader

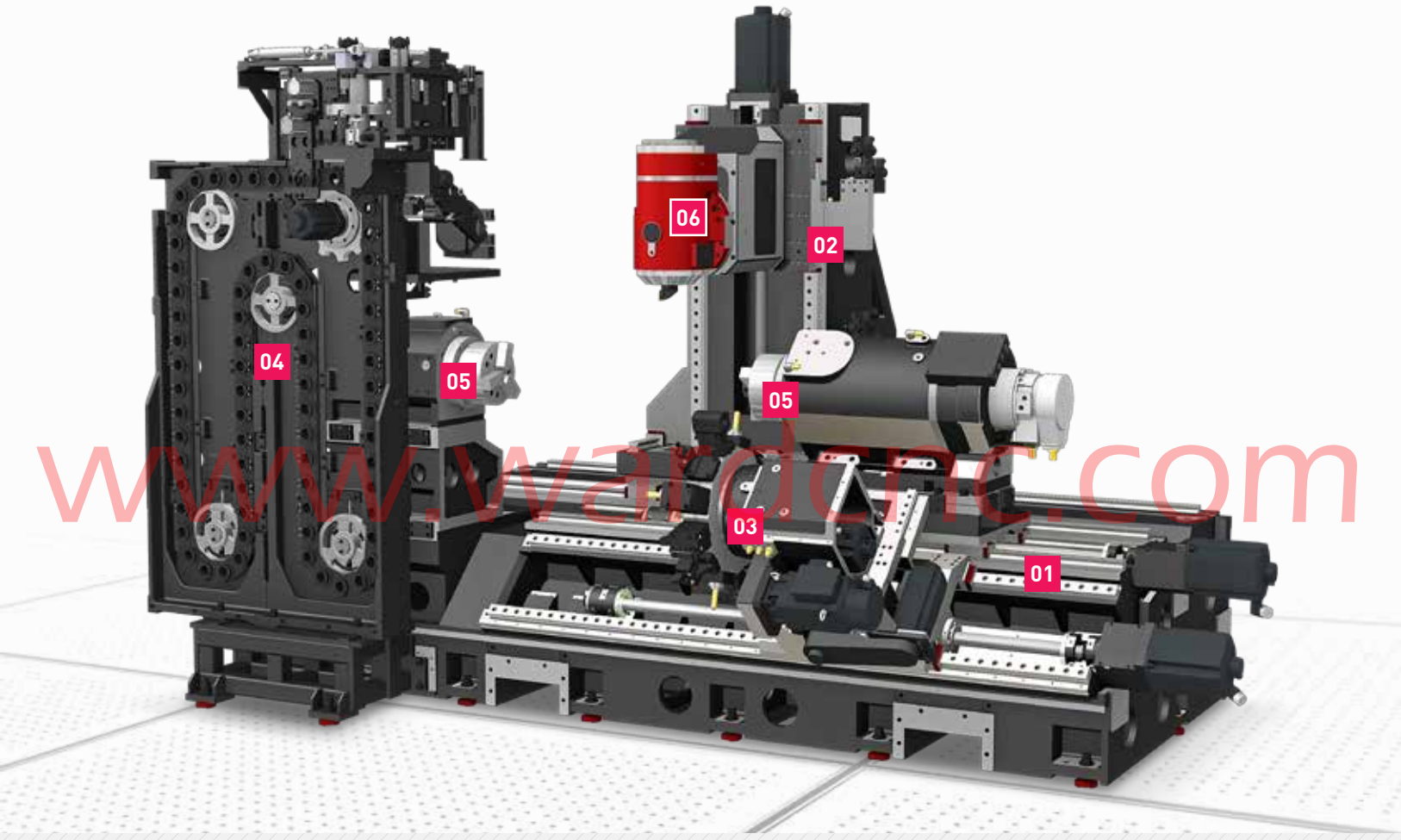
The multitasking machine KM2600MTTS, designed by HYUNDAI WIA with years of expertise and the latest technology, is designed to maximize productivity by utilizing twin spindles and mill head.

01

KM2600MTTS

Basic Features

Process-intensive 9-axis multi-tasking machine with the mill head, sub spindle and lower turret

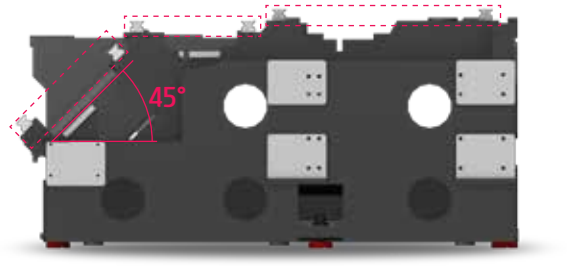


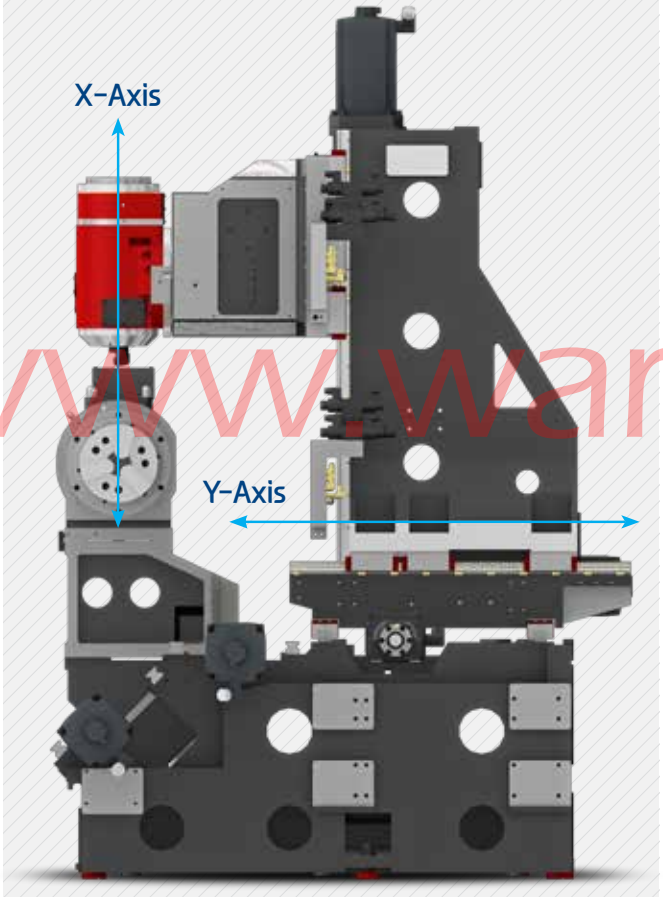
Excellent Performance & High Accuracy Cutting

- **Rapid Traverse Rate** (X1/Z1/Y/X2/Z2/ZB axis) :
  40/40/40/30/20/15 m/min (1,575/1,575/ 1,575/1,181/787/591 ipm)
- **Travel** (X1/Z1/Y/X2/Z2/ZB axis) :
  705/1,595/250/250/1,500/1,586 mm (27.8″/62.8″/9.8″/9.8″/59″/62.4″)
- **Mill Head** (B axis) : 240° (-30°~210°)
- **Max. Turing Length** : 1,550 mm (61″)
- **Max. Turning Dia.** : Ø750 (29.5″) (B axis 140°), Ø630 (24.8″) (B axis 90°)

01 High Precision, High Rigidity Bed Structure

Z-axis in a **3-way** structure is applied to remove any interference in conveyance between the tool station and 2nd spindle. Design in **45° slant** ensures that cutting chips and cutting oil are discharged smoothly and both high strength and high precision can be maintained. Especially, the bed is analyzed in the **FEM method** to minimize factors that can be generated in the machining, such as thermal deformation, vibration, etc.





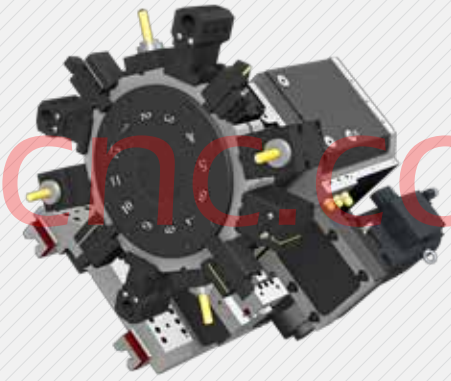
02 Cross Type Y-axis

The cross type Y-axis ensures the excellent positioning precision with the simple preparation and correction of program, which will give you a great help in increasing productivity.

KM2600MTTS establishes the complex machining with the expanded machining area and increased machining precision only with the one-time chucking based on the balance of the mill head and the cross type Y-axis control in the column portable Y-axis.

03 BMT Lower Turret

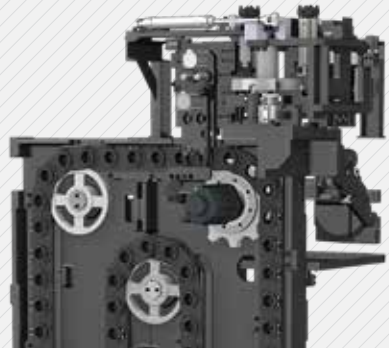
The lower turret adopts 2 servo motors in good performance to ensure high durability and precision. Especially, the lower turret ensures the high-speed machining of complicated shapes in precision only with the one-time setting of an object to be machined with the mill head and complex machining.



04 ATC & Magazine

The installation of magazine on the front provides the efficient tool exchange and tool setting. Magazine with chain driving method provides 36 tools as a standard, and 72 tools as an option.

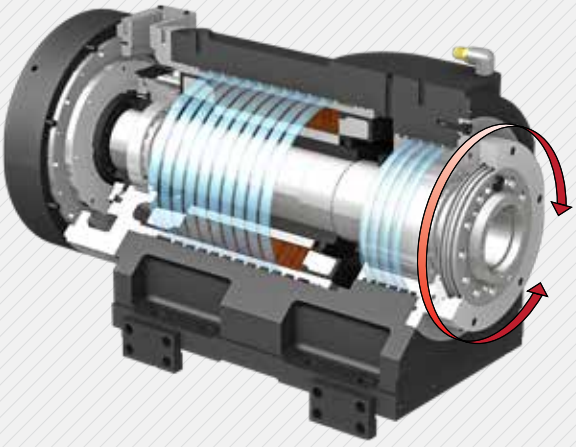
ATC driven by a servo motor increases the positioning precision and control capability due to its tool exchange method in the cam index type.



02 Spindle & Mill Head

KM2600MTTS

Spindle and mill head for the machining of various shapes in high precision



05 Built-In 10″ Main & Sub Spindle

The built-in main and sub spindle with high precision is designed in a structure where the spindle head is separated from the base to minimize thermal displacement during the machining.

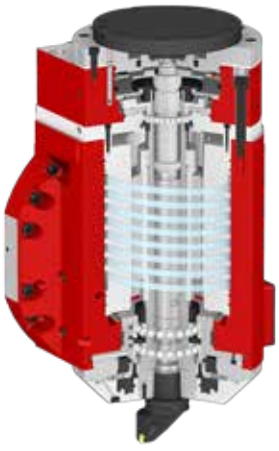
C Axis Control

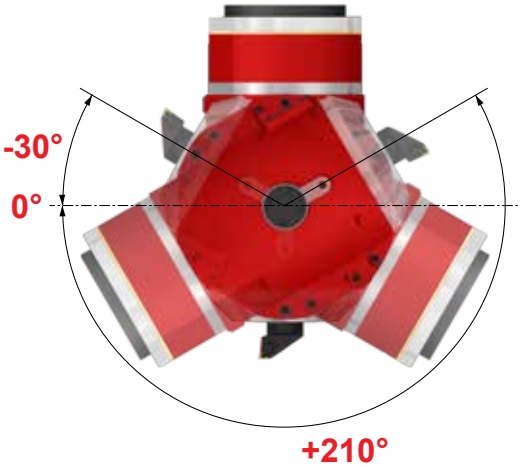
Main and sub spindle can control 0.0001 degrees and this maximizes turning and milling conditions.

- **Spindle Speed** : 4,000 r/min
- **Bar Capacity** : Ø80 (3.1″)

Mill Head

The mill head of KM2600MTTS, where the b-axis control can be done, is mounted with a high-resolution encoder having a DDM (Direct Drive Motor) and 0.0001° to secure high positioning precision. This shows highest machining perfomance among the same class.



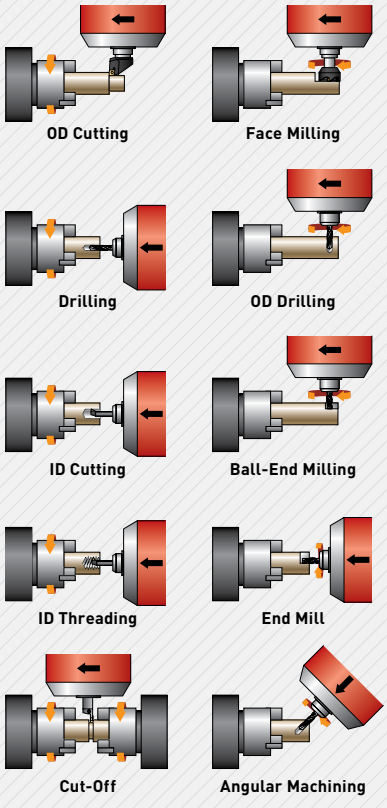


CAPTO-C6

Maximized cutting ability by applying double side circulation CAPTO-C6 as a standard.

- Ideal over load analysis
- Decreased tool change time by short taper

06 Machining Variation



SPECIFICATIONS

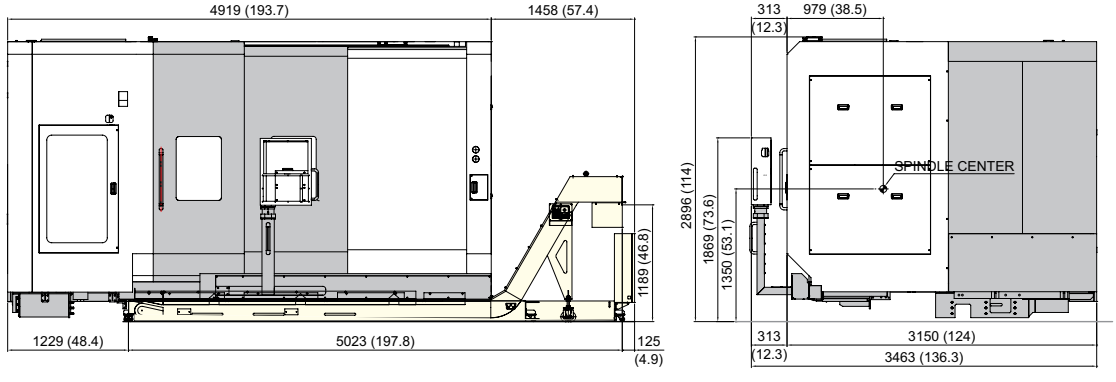
Specifications

ITEM				KM2600MTTS
CAPACITY	Max. Turning Dia. (Mill/Turret)		mm(in)	B axis 140° : Ø750(29.5″), B axis 90° : Ø630(24.8″)/420 (16.5″)
	Max. Turing Length		mm(in)	1,550 (61″)
	Bar Capacity		mm(in)	Ø80 (3.1″)
SPINDLE	Chuck Size		inch	Main : 10″, Sub : 10″
	Spindle Speed		r/min	Main : 4,000, Sub : 4,000
	Spindle Power		kW(HP)	Main : 30 (40.2), Sub : 26 (34.8)
	Spindle Torque (Max./Cont.)		N·m(lbf·ft)	Main : 800/585 (590/431.5), Sub : 610/430 (449.9/317.2)
	Spindle Nose		-	Main : A2-8, Sub : A2-8
	Spindle Bore		mm(in)	Main : Ø91 (3.6″), Sub : Ø91 (3.6″)
	C axis indexing Angle		deg	Main : 0.0001°, Sub : 0.0001°
FEED	Travel	X1/Z1/Y/X2/Z2/ZB	mm(in)	705/1,595/250/250/1,500/1,586 (27.8″/62.8″/9.8″/9.8″/59″/62.4″)
		B	deg	240 (-30° ~ +210°)
	Rapid Traverse Rate (X1/Z1/Y/X2/Z2/ZB)		m/min(ipm)	40/40/40/30/20/15 (1,575/ 1,575/ 1,575/1,181/787/591)
MILL HEAD	Spindle Speed		r/min	12,000
	Spindle Power		kW(HP)	26 (34.8)
	Spindle Torque (Max./Cont.)		N·m(lbf·ft)	120/75 (88.5/55.3)
	Driven Type		-	Direct Drive Motor
	Indexing Angle		deg	0.0001°
TURRET	No. of Tools		EA	12
	Tool Size (O.D/I.D)		mm(in)	□25/Ø40 (□1″/Ø1.6″)
	Milling Tool Speed		r/min	5,000
ATC	Tool Storage Capacity		EA	36 [72]
	Tool Shank Type		-	CAPTO C6
	Max. Tool Dia. (W/O)		mm(in)	Ø90/Ø125 (3.5″/4.9″)
	Max. Tool Length		mm(in)	400 (15.7″)
	Max. Tool Weight		kg(lb)	12 (26.5)
	Tool Selection Method		-	FIXED ADDRESS
MACHINE	Floor Space(L×W)		mm(in)	4,919×3,463 (193.5″x136.3″)
	Height		mm(in)	2,896 (114″)
NC	Controller		-	SIEMENS 840D

Specifications are subject to change without notice for improvement.

External Dimensions

unit : mm(in)



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