

KM 2600MTTS

Process-intensive 9-axis Multi-tasking Machine

HYUNDAI WIA Multitasking Machine

KM 2600MTTS



- Max. Turning Dia. (Mill/Turret)
B axis 140° : Ø750(29.5"), B axis 90° : Ø630(24.8")/390 (15.4")
- Max. Turning Length 1,550 mm (61")
- Chuck Size Main/Sub : 10"
- Spindle Speed Main/Sub : 4,000 r/min
- Max. Spindle Power Main : 30 kW (40.2 HP), Sub : 26 kW (34.8 HP)
- Mill Speed 12,000 r/min
- Max. Mill Power 26 kW (34.8 HP)
- No. of Tools 36ea [Opt. 72ea]
- Travel (X1/Z1/Y/X2/Z2/ZB)
705/1,595/250/250/1,500/1,586 mm(27.8"/62.8"/9.8"/9.8"/59"/62.4")
- B Axis Angle 240° (-30° ~ +210°)
- Rapid Traverse Rate (X1/Z1/Y/X2/Z2/ZB)
40/40/40/30/20/15 m/min (1,575/ 1,575/ 1,575/1,181/787/591 ipm)



Process-intensive 9-axis Multi-tasking Machine

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.

MULTITASKING MACHINE



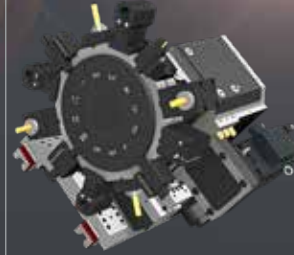
Main & Sub Spindle

Built-in Motor
10"
4,000 r/min



Mill Head

Built-in Motor
CAPTO C6
12,000 r/min



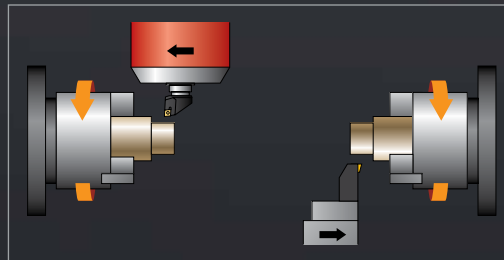
Lower Turret

BMT65P
□ 25/Ø40 (□ 1"/Ø1.6")
5,000 r/min

Productivity Enhanced by Main & Sub Simultaneous and Balanced Cutting Capability

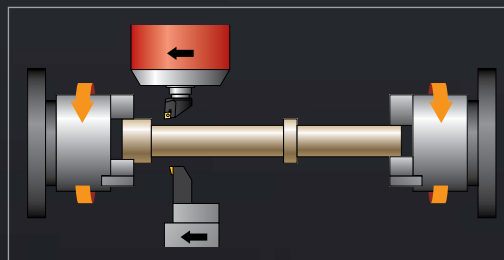
Simultaneous Machining

The KM2600MTTS is equipped with 1st & 2nd spindles for simultaneous cutting, dramatically enhancing productivity.



Balanced Machining

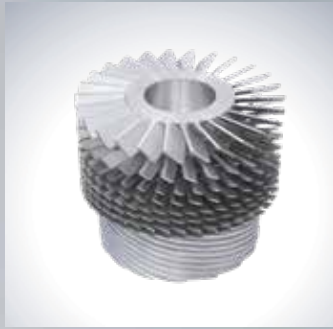
The Mill Head and Lower Turret enable balanced cutting, thereby shortening the cutting time and enabling high-speed, precision machining.





Applications & Parts

VACUUM PUMP
ROTOR



IMPELLER



MOUNTING
SHELL



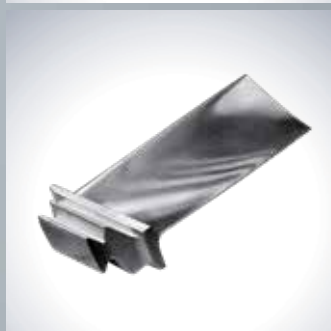
ARTIFICIAL
BONE



HOUSING,
ELECTRIC MOTOR



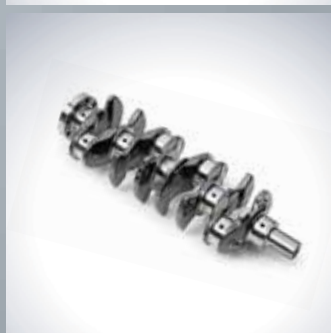
BLADE,
COMPRESSOR



HOUSING,
ENGINE



CRANKSHAFT

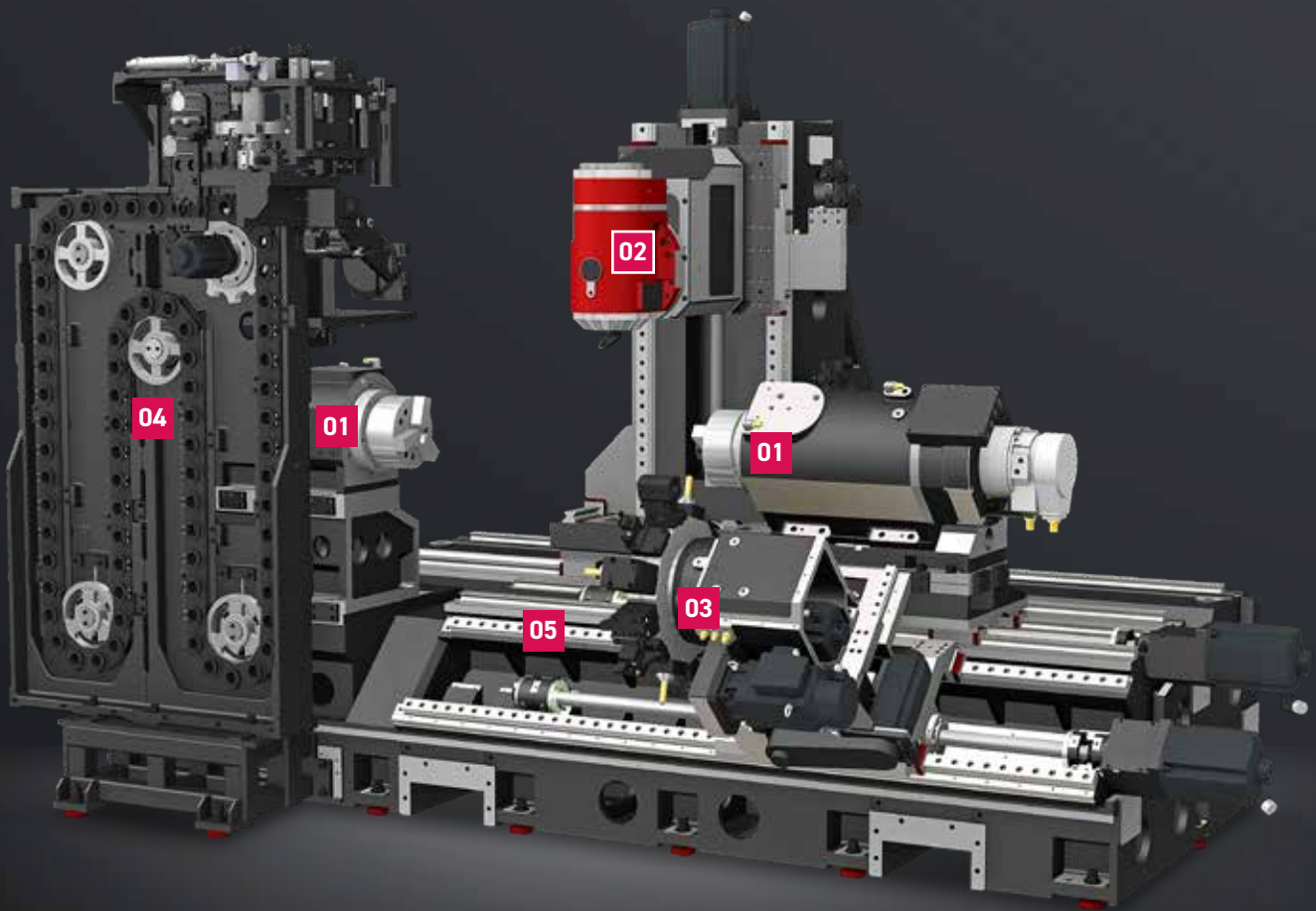


01

KM2600MTTS

Basic Features

Process-intensive 9-axis Multi-tasking Machine with the Mill Head, 2 Spindle & Lower Turret



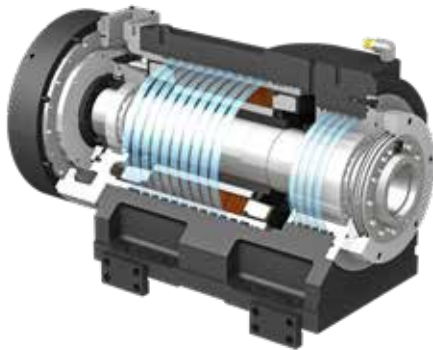
High-rigidity Construction with High Aging Resistance

- The adoption of a milling head with a built-in B axis (0.0001control) enables the operator to perform turning and milling works in perfect harmony.
- The highly rigid Y-axis structure makes it possible to process diverse shapes.
- Application of CAPTO C6 tool for high speed complex machining
- The model features built-in main & sub-spindles with high output and high torque.

Basic Features

01 Built-In 10" Main & Sub Spindle

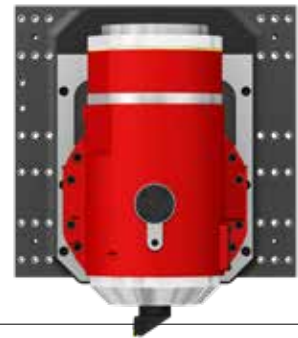
The built-in 4,000rpm-class spindle minimizes vibration to allow machining of the highest precision.



02 Mill Head

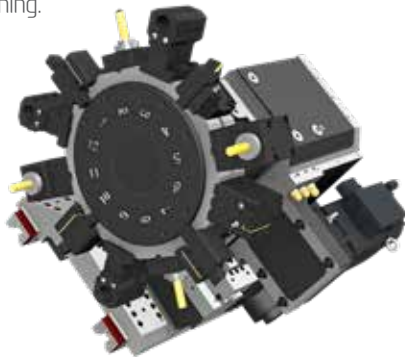
The mill head of KM2600MTS, where the b-axis control can be done, is mounted with a high-resolution encoder having a DDM (Direct Drive Motor) and 0.0001° to secure high positioning precision. This shows the highest machining performance among the same class.

<12,000 r/min>



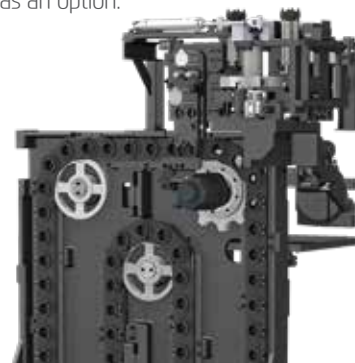
03 BMT Lower Turret

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

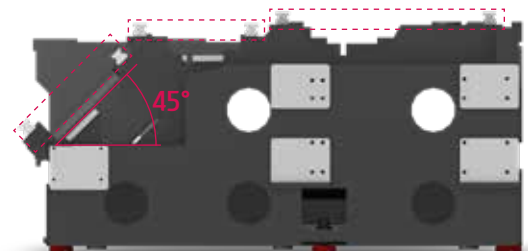
The installation of magazine on the front provides the efficient tool exchange and tool setting. Magazine with chain driving method provides 36 tools as a standard, and 72 tools as an option.



05 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.

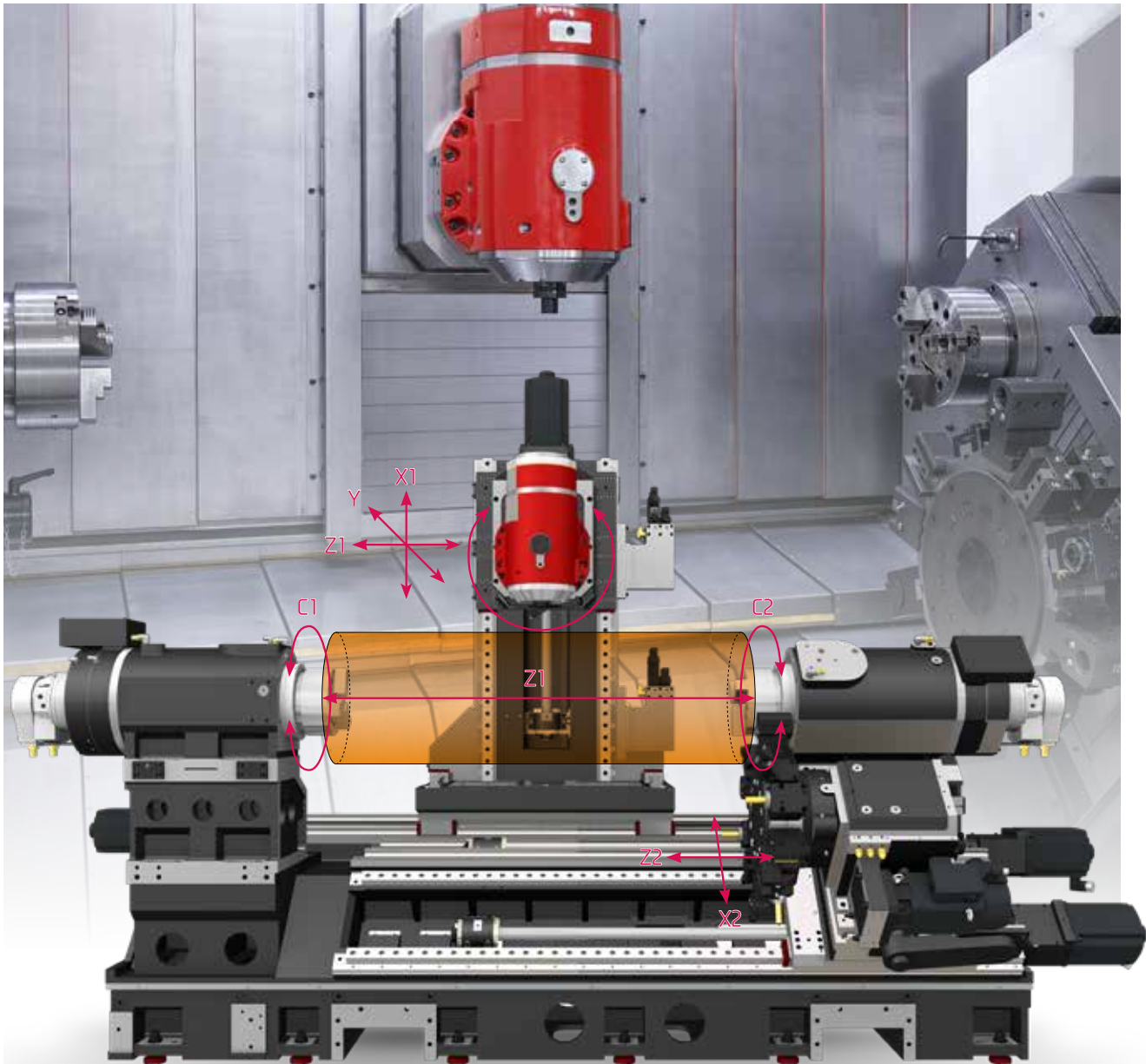
Especially, the bed is analyzed in the FEM method to minimize factors that can be generated in the machining, such as thermal deformation, vibration, etc.



02
KM2600MTTS

Slideway Features

High-Precision & Speed Multitasking Machine

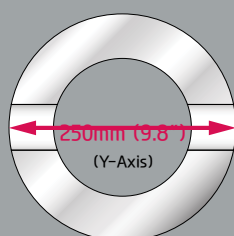


705/1,595/250/250/1,500/1,586 mm (27.8"/62.8"/9.8"/9.8"/59"/62.4")
Travel (X1/Z1/Y/X2/Z2/ZB)

40/40/40/30/20/15 m/min (1,575/ 1,575/ 1,575/1,181/787/591 ipm)
Rapid Traverse Rate (X1/Z1/Y/X2/Z2/ZB)

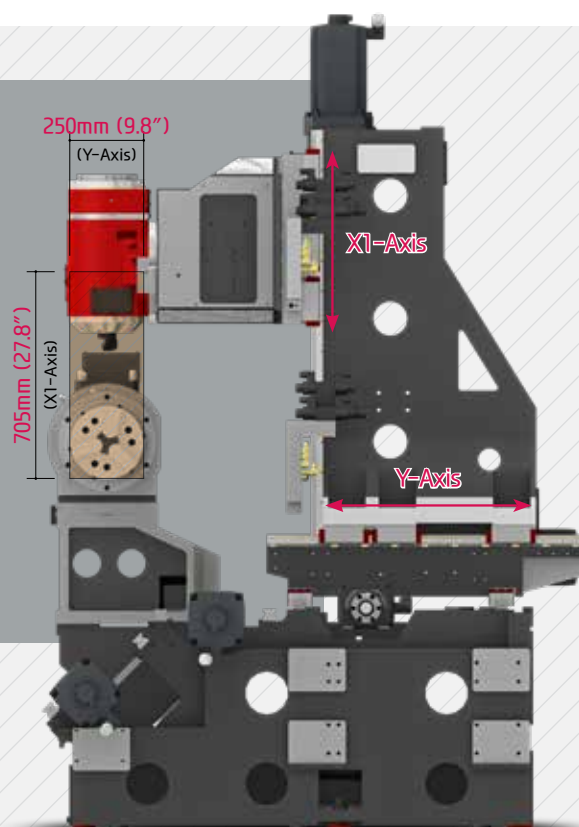
Cross Type Y-axis

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.



Wide Machining Range of Y Axis

The adoption of a Y-axis with a wide cutting range of 250mm(9.8") allows Y-axis cutting in a single step without having to rotate the C-axis, and improves the cutting pitch and precision level.



High-Speed Roller LM Guideway

Linear roller guideways are applied to reduce non-cutting time and bring high rigidity.



Forced Cooling System for Ball Screw

The KM2600MTTS's Ball Screw features a forced cooling system that uses Oil Con. The system is ideal for high-precision machining due to its ability to considerably reduce the feed shaft's thermal displacement generated by repetitive movements.

In addition, the ball screw's diameter has been increased to endure the load imposed during heavy-duty cutting.



High-Precision Linear Scale **OPTION**

KM2600MTTS is equipped with linear scales on all axes providing high precision positioning accuracy and compensates for ball screw thermal displacement ensuring extremely precise machining.

In addition, the **absolute type linear scale** is installed in close proximity to the ball screw of each axis. During operation an added benefit is not being require to home the machine.

03
KM2600MTTS

High-Precision Spindle

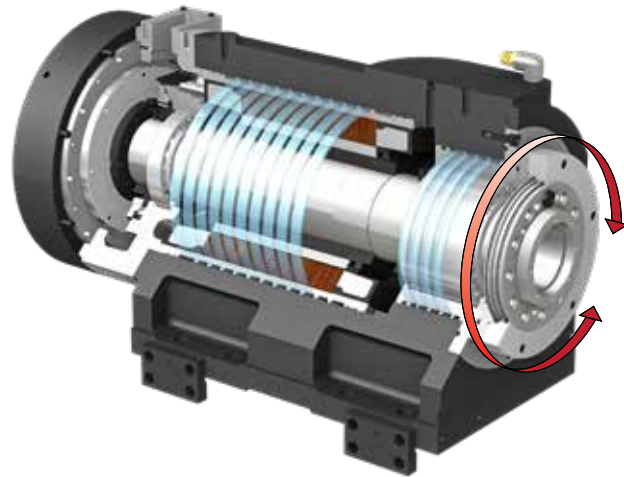
Long Lasting High Accuracy & Excellent Performance
Multitasking Machine



High-precision Built-in Spindle delivers impressive performance in accurate machining

Built-in type spindle reduces noise, heat and vibration effectively at high speed rates. Also, rapid acc./deceleration reduces non-cutting time leading to higher productivity.

- Bar Capacity : $\varnothing 80$ ($\varnothing 3.1''$)
- Spindle Bore : $\varnothing 91$ ($\varnothing 3.6''$)
- C-axis Indexing : 0.0001°

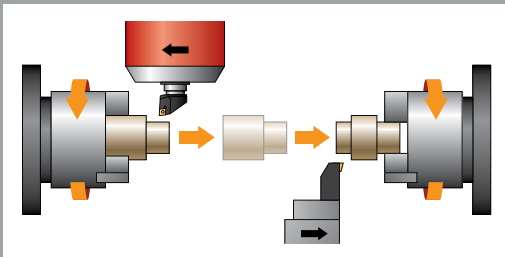


C-Axis Control

C-axis control of main and sub spindle allows machining of various products with the use of mill head on the Y-axis.

Spindle Oil Cooling

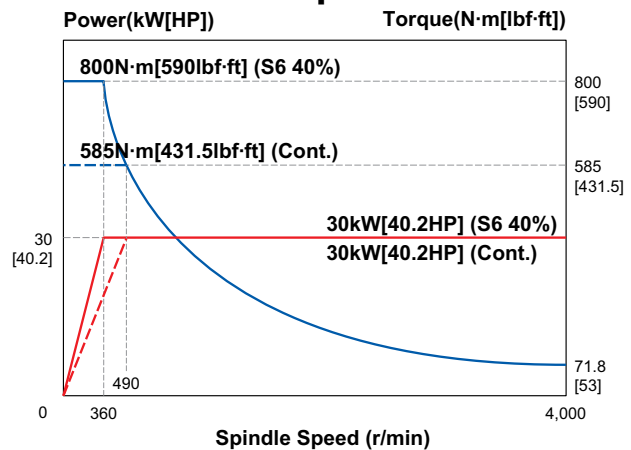
The main/sub spindles have been fitted with cooling units as a standard feature to minimize thermal displacement generated during cutting works, maintain a constant temperature, and increase cutting stability.



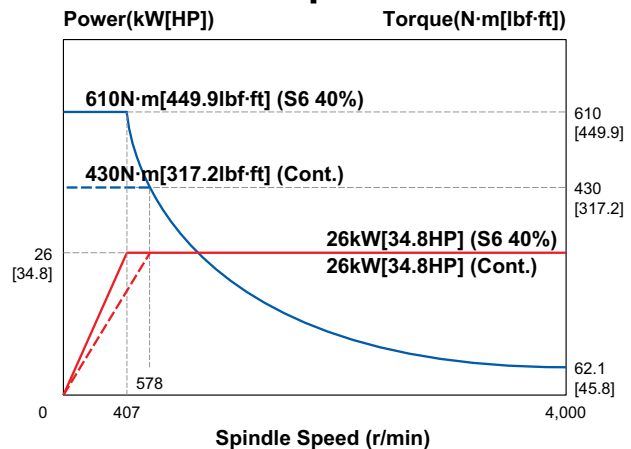
Easy Work Coordinate Setting

The 10" chuck has been adopted for the built-in sub-spindle as well as the main spindle. Synchronized rotation of the main and sub-spindles allows high-precision, continuous cutting work.

Main Spindle



Sub Spindle

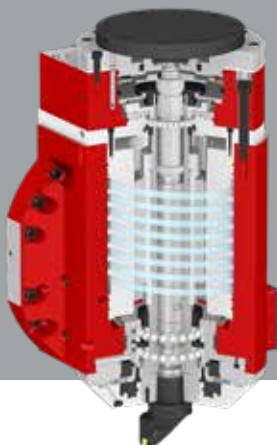
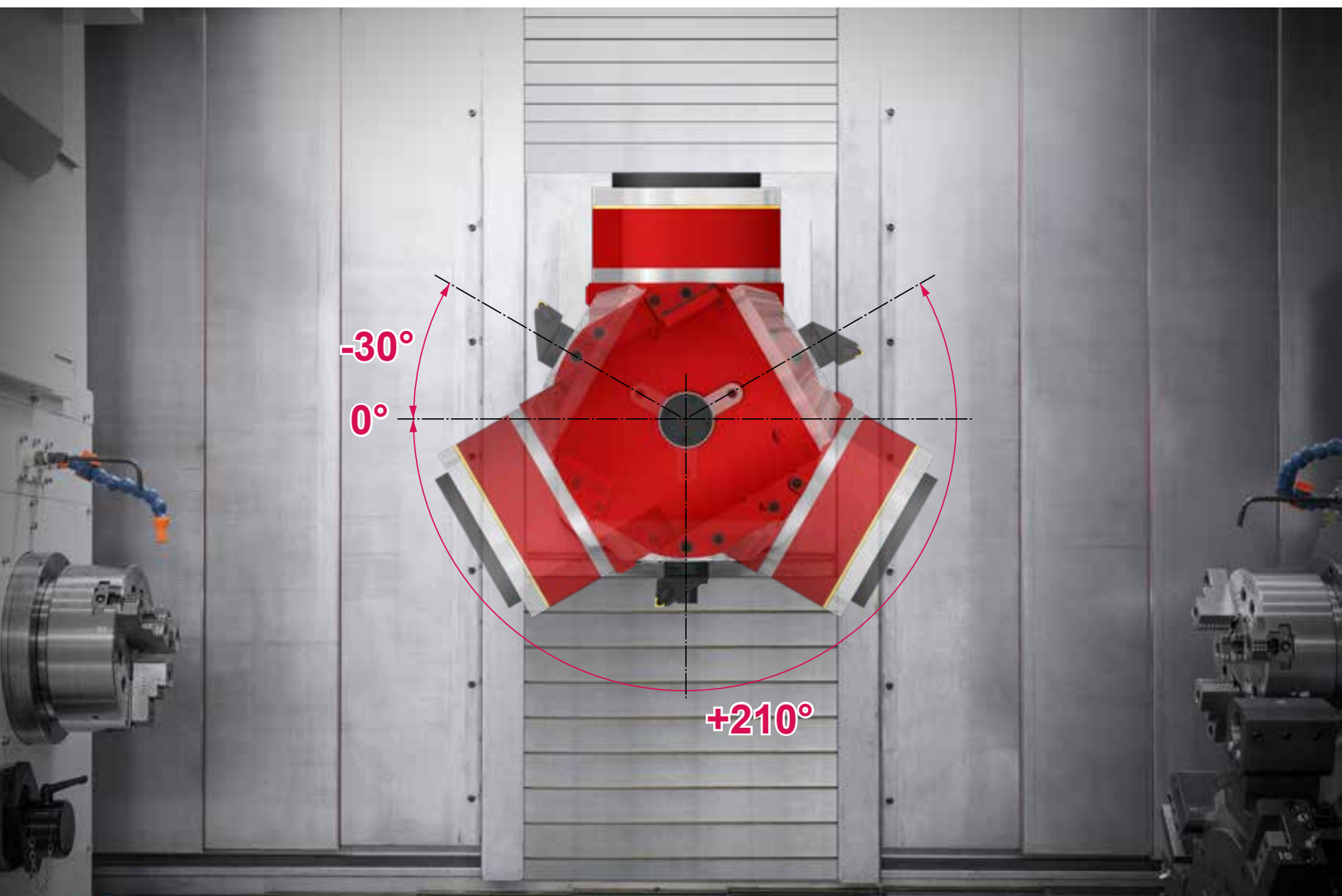


04

KM2600MTTS

Mill Head

Excellent Performance, High Accuracy Cutting
Multitasking Machine



Oil Cooling

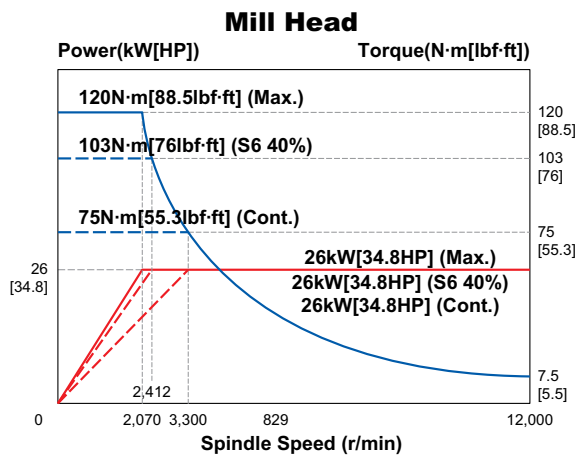
The adoption of a spindle cooling unit for the Mill Head as a standard feature minimizes thermal error generated during cutting work, maintains a constant temperature, and increases cutting stability.

- ◉ B-axis Angle : **240°** (–30°~+210°)
- ◉ B-axis Indexing Angle : **0.0001°**
- ◉ Driven Type : **DD Motor**

High-precision B Axis Mill Head for Various Cutting Works and Wider Range of Machining

The Mill Head features high-precision B-axis control capability, and is equipped with a Direct Drive Motor and a 0.0001° class high fidelity encoder to guarantee high positioning accuracy and the best cutting performance in its class.

Maximum rotation of 12,000rpm enables high-speed cutting and superb machining performance.

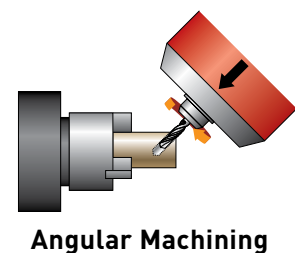
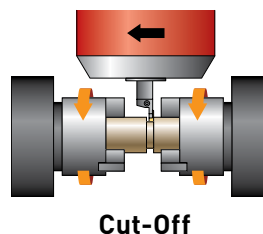
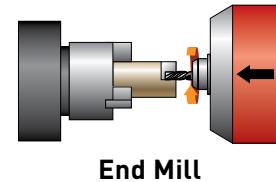
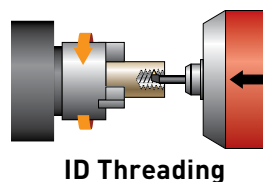
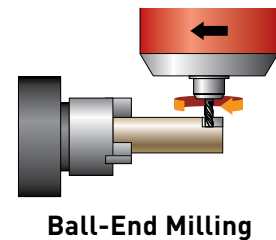
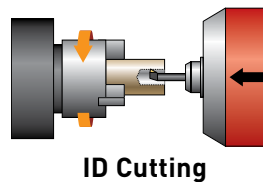
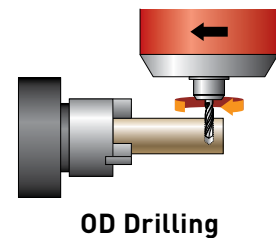
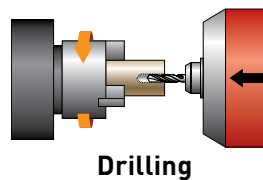
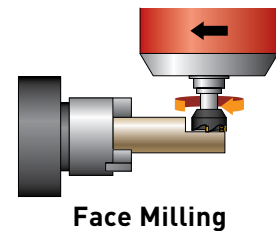
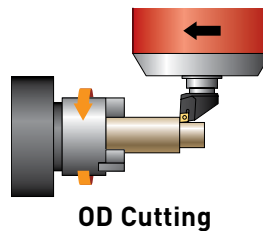


CAPTO-C6

CAPTO-C6, which allows double-sided circulation, is applied as a standard for maximum cutting capability.

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

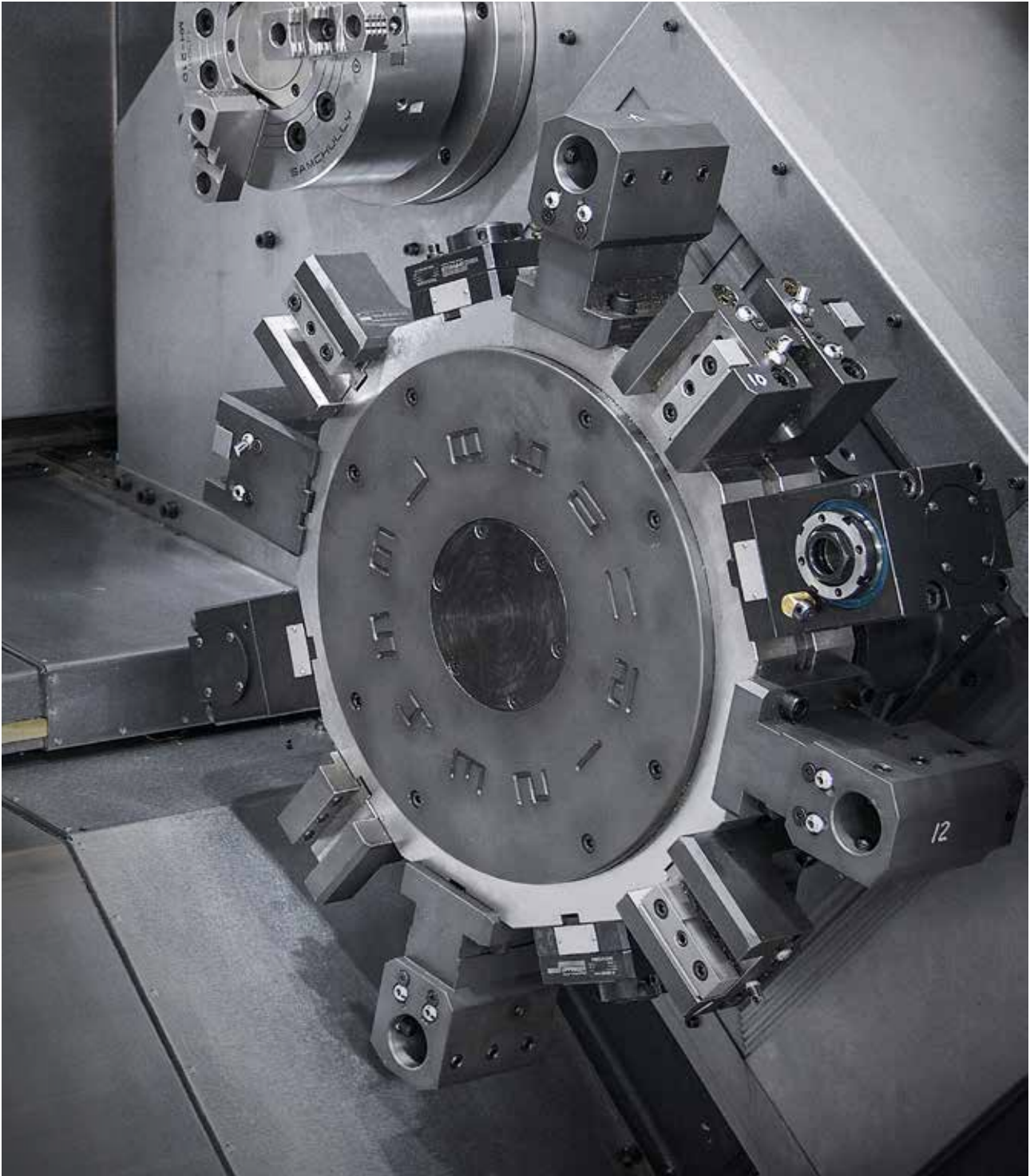
Machining Variation



05
KM2600MTTS

BMT Lower Turret

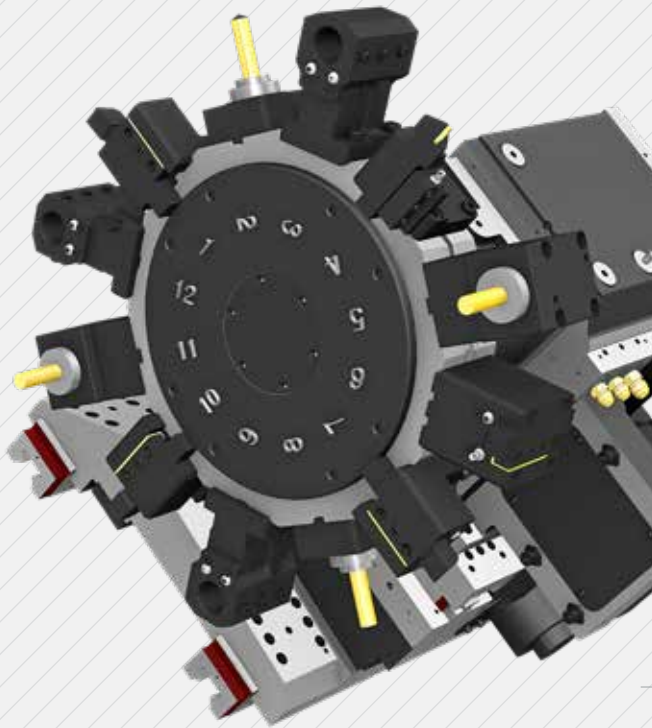
High speed, High Accuracy, Highly Reliable
BMT Turret



BMT Turret

BMT Turret

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.



- Output(Max.) : **3.3** kW (**4.4** HP)
- Speed(rpm) : **5,000** r/min
- Collet size : **Ø20** (0.8") (ER32)
- Live Tool Type : **BMT65P**
- Indexing Time : **0.2** sec/step

Straight Milling Head

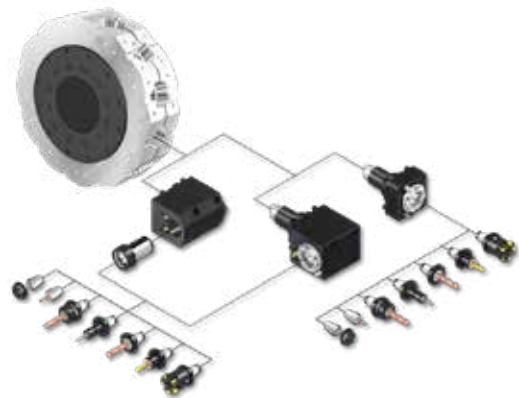


Angular Milling Head

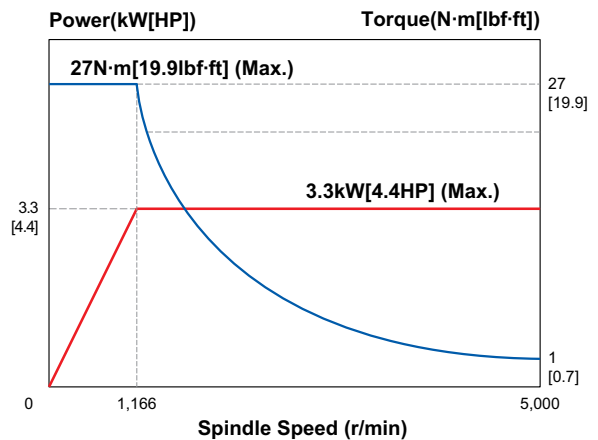


Mill Tool Holder

Machining capability has increased with the addition of straight milling head tool holder, which can machine workpieces from the side, and angular milling head tool holder, which can perform I.D. operations.



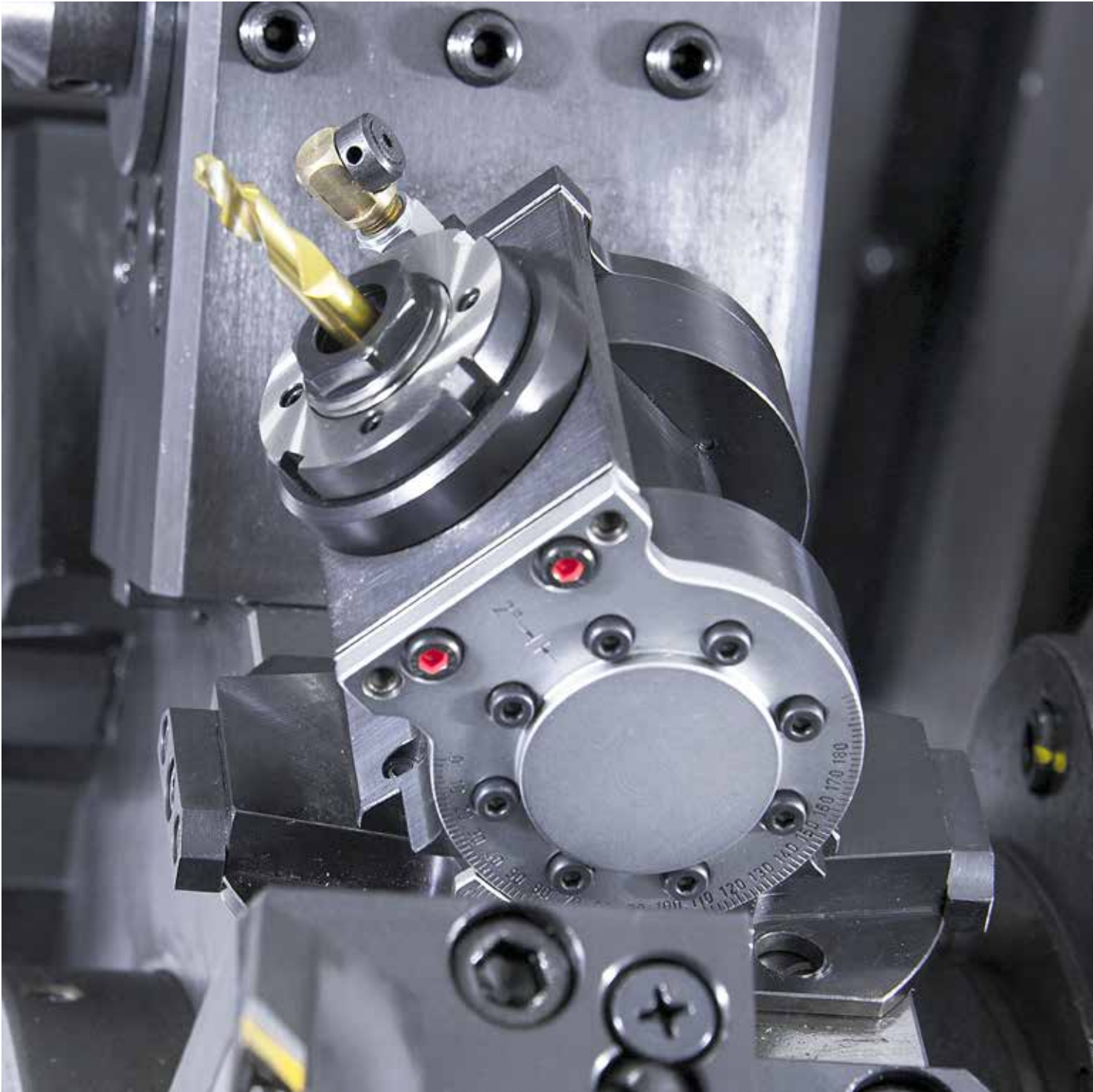
Turn Mill



06
KM2600MTTS

Special Tool Holders

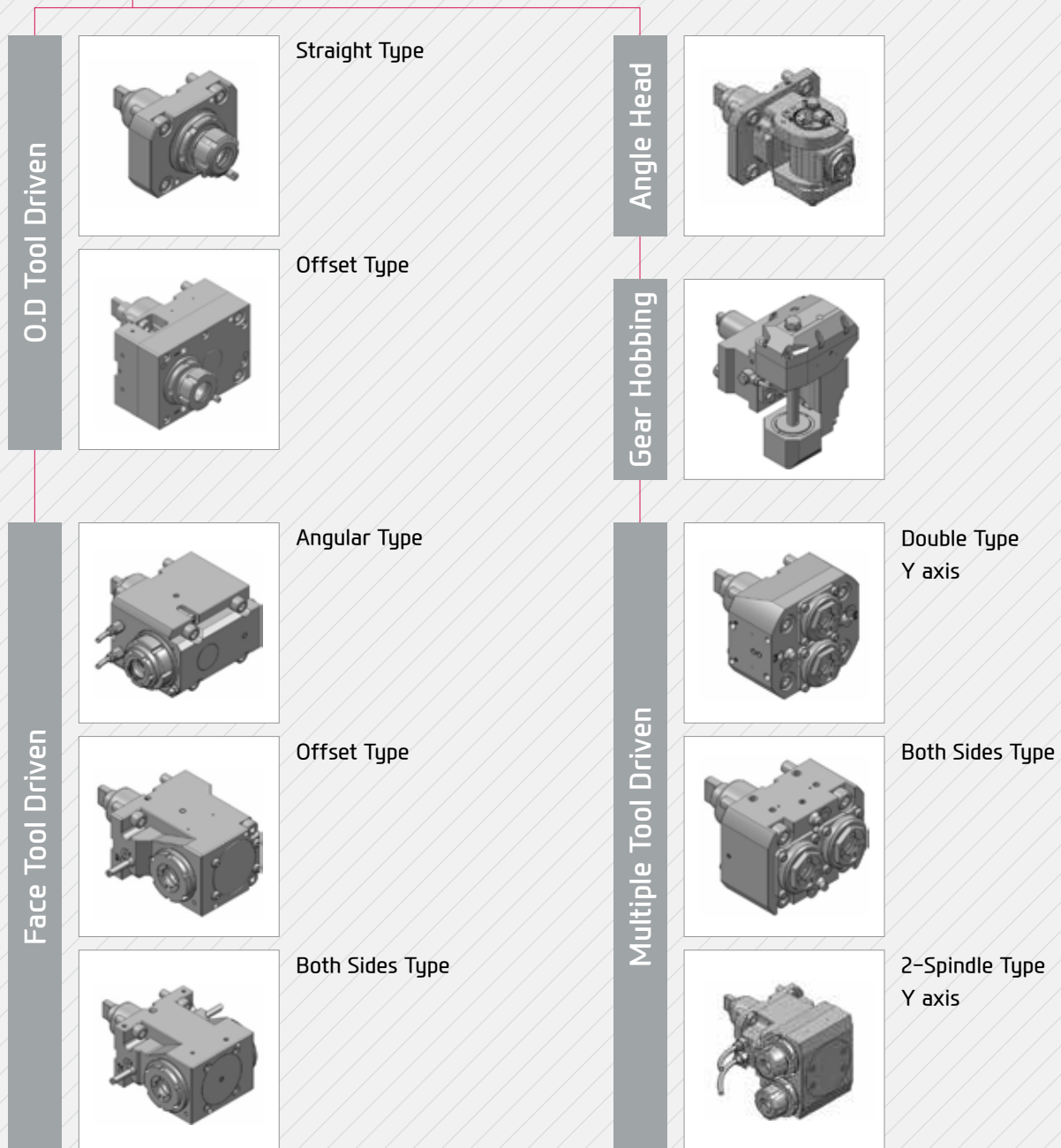
Various Driven Precision Tool holders for
Multitasking Machine





BMT Tooling System

The KM2600MTTS can process high value-added products using a variety of rotating tools. In particular, there is a multi-holder for attaching a variety of tools to one holder, and an eccentric rotary tool for handling eccentric parts without additional axis travel, which can realize integration of process with one machine.



❖ Consultation needed when ordering these options.

07

KM2600MTTS

User Convenience

Various Devices for User Convenience



Operation Panel

The ergonomic design enhances user convenience.

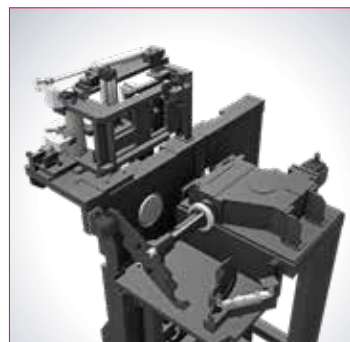
LM guide is installed at the bottom of the machine to enable smooth movement of the operation panel.

ATC & Magazine

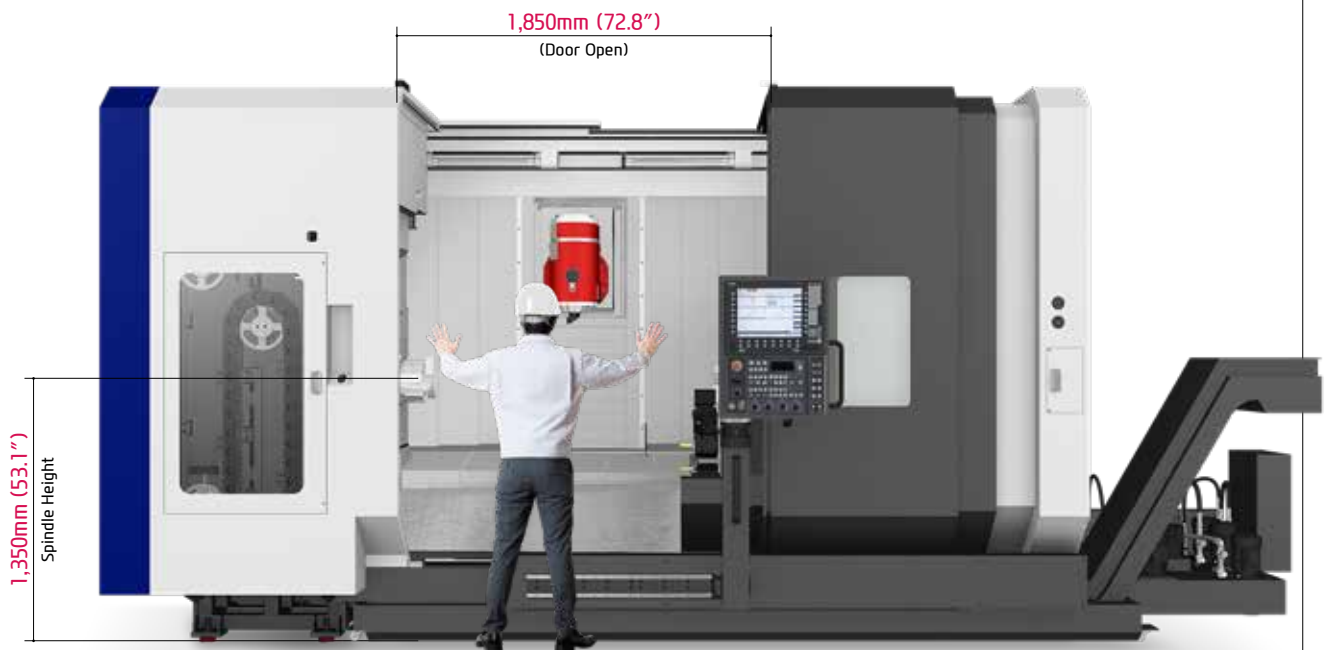
The installation of magazine on the front provides the efficient tool exchange and tool setting. Magazine with chain driving method provides 36 tools as a standard, and 72 tools as an option.

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

- ◉ No. of Tools : **36 [72]** EA ◉ Max. Tool Weight : **8 kg (17.6 lb)**
- ◉ Max. Tool Dia. (W.T/W.O) : **Ø90/Ø125 (Ø3.5"/Ø4.9")**
- ◉ Max. Tool Length : **400 mm (15.7")**
- ◉ Tool Selection Method : **Fixed Address**



The KM2600MTTS offers Ergonomic Design for Easy Operability and Maintenance.



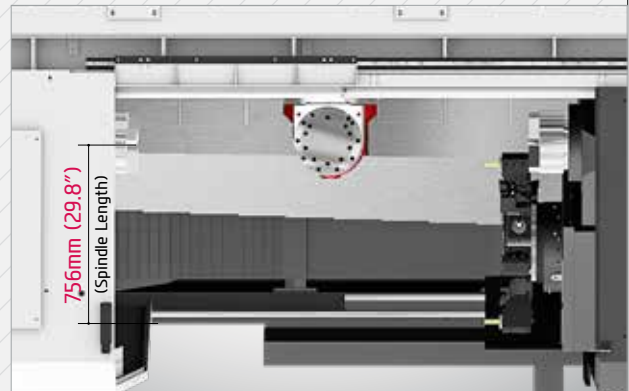
Improved Access with Larger Front Door

The adoption of a larger front door makes crane access for cutting preparation works, such as setting up workpieces, much easier.

Highly Accessible Spindle

The spindle's ergonomic design improves access for the chuck and makes it easier to set up workpieces.

The height from the floor to the center of the spindle has been carefully considered in order to improve the operator's convenience when setting up work pieces.



SPECIFICATIONS

Standard & Optional

● : Standard ○ : Option ☆ : Prior Consultation

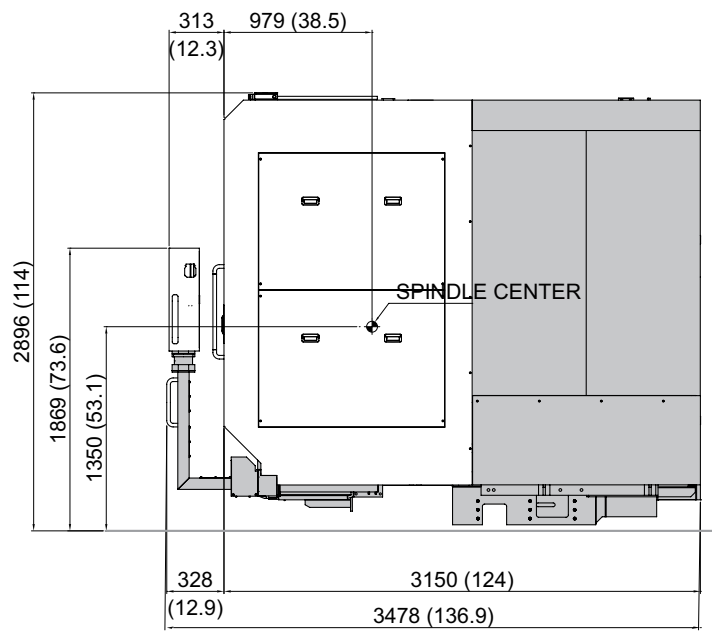
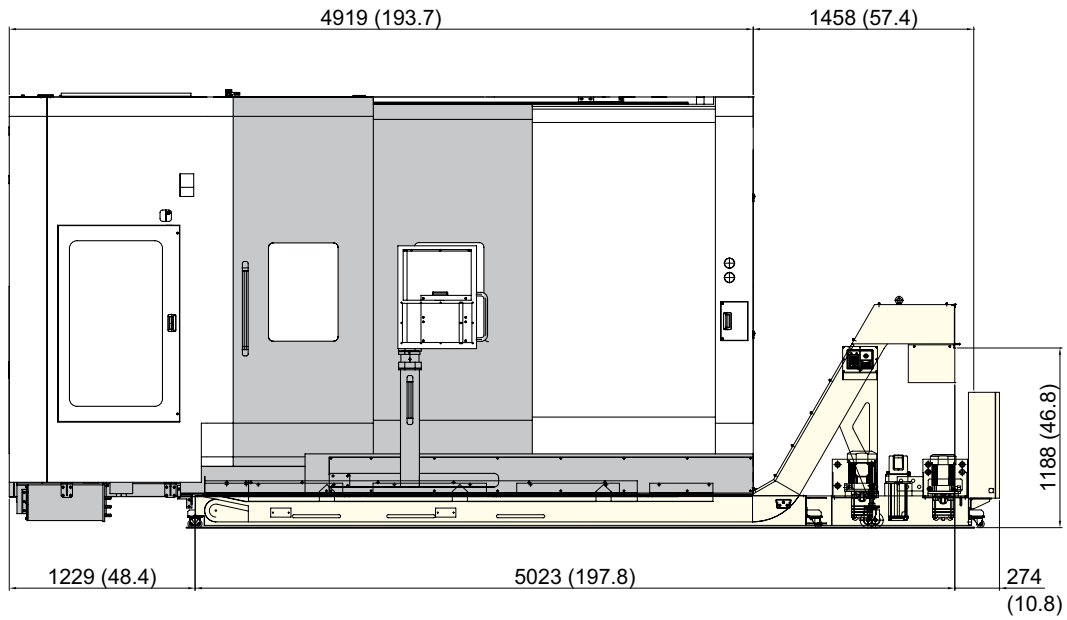
Spindle		KM2600MTTS
Main Spindle	10"	●
Hollow Chuck 3 Jaw		
Main Spindle	10"	○
Solid Chuck 3 Jaw		
Sub Spindle	10"	●
Hollow Chuck 3 Jaw		
Sub Spindle	10"	○
Solid Chuck 3 Jaw		
Standard Soft Jaw (1set)		●
Chuck Clamp Foot Switch		●
2 Steps Hyd. Pressure Device		☆
Spindle Inside Stopper		☆
Chuck Open/Close Confirmation Device		●
Chuck Pressure Check Switch		●
Cs-Axis (0.001°)		●
Mill Head		
Tool Shank Type	CAPT0 C6	●
ATC & Magazine		
ATC Extension	36 Tool	●
	72 Tool	○
Turret		
Tool Holder	12EA	●
	24EA	○
Mill Turret	BMT	●
Straight Milling Head (Radial)	Adapter Type,2ea	●
Angular Milling Head (Axial)	Adapter Type,2ea	●
Boring Sleeve		●
Drill Socket		●
U-Drill Holder		○
U-Drill Holder Sleeve		○
Angle Head		☆
Tail Stock & Steady Rest		
Lower Tool Mount Steady Rest (SLU2)		○
Coolant & Air Blow		
Standard Coolant (Mill Front)		●
Chuck Coolant (Upper Chuck)		○
Gun Coolant		○
Shower Coolant (Bed Flushing)		●
Through Spindle Coolant (Only for Special Chuck)		☆
Thru Coolant for Live Tool		☆
Chuck Air Blow (Upper Chuck)		●
Sub Spindle Air Blow		●
Turret Air Blow		☆
Air Gun		○
Through Spindle Air Blow (Only for Special Chuck)		☆
High-pressure Coolant	2.0Mpa	○
	7.0Mpa	○
Power Coolant System (For Automation)		☆
Coolant Chiller		☆
Chip Disposal		
Coolant Tank	600 ℓ (158.5 gal) Side	●
Chip Conveyor (Hinge/Scraper)	Front (Right)	○
Special Chip Conveyor (Drum Filter)		☆
Chip Wagon	Standard (180 ℓ [47.5 gal])	○
	Swing (200 ℓ [52.8 gal])	○
	Large Swing (290 ℓ [76.6 gal])	○
	Large Size (330 ℓ [87.2 gal])	○
	Customized	☆

Safety Device		KM2600MTTS
Back Spin Torque Limiter (BST)		●
Total Splash Guard		●
Chuck Hydraulic Pressure Maintenance Interlock		☆
Electric Device		
Call Light & Buzzer	3Color : ■ ■ ■ B	○
Electric Cabinet Light		○
Remote MPG		●
Work Counter	Digital	○
Total Counter	Digital	○
Tool Counter	Digital	○
Multi Tool Counter	Digital	○
Electric Circuit Breaker		○
AVR (Auto Voltage Regulator)		☆
Transformer	60kVA	○
Auto Power Off		○
Measurement		
Q-Setter	Removable	○
Work Close Confirmation Device (Only for Special Chuck)	TACO	○
Tool Length Measuring Device	SMC	○
	Touch(Mill Head)	○
Automatic Workpiece Measuring Device	RMP600	○
HWTM (Tool Monitoring System)		○
Linear Scale	X1/X2 Axis	○
	Z1/Z2 Axis	○
	Y Axis	○
Coolant Level Sensor (Only for Chip Conveyor)		☆
Environment		
Air Conditioner		●
Oil Mist Collector		☆
Oil Skimmer (Only for Chip Conveyor)		○
MQL (Minimal Quantity Lubrication)		☆
Fixture & Automation		
Auto Door		●
Auto Shutter (Only for Automatic System)		☆
Sub Operation Pannel		☆
Extra M-Code 4ea		○
Automation Interface		☆
I/O Extension (IN & OUT)	16 Contact	○
Hyd. Device		
Standard Hyd. Cylinder	Hollow	●
	45bar (652.7psi) / 20 ℓ (5.3 gal)	●
Standard Hyd. Unit		●
S/W		
Hyundai WIA Smart Software		●
Thermal Compensation	2ch	●
	8ch	○
DNC software (HW-eDNC)		○
Machine Monitoring System (HW-MMS)		○
ETC		
Tool Box		●
Customized Color	Need Munsel No.	☆
CAD & CAM Software		☆

SPECIFICATIONS

External Dimensions

unit : mm(in)



Interference

Technical drawing of a 2-axis lathe showing X and Z strokes with dimensions in inches and millimeters.

Y-STROKE:

- 125 (4.9)
- 125 (4.9)
- 250 (9.8)
- 1565 (61.6)

Z1-STROKE:

- 1595 (62.8)

X-STROKE:

- 1920 (75.6)
- 1550 (61) - Maximum Length
- 1291 (50.8)
- 1586 (62.4) - ZB-STROKE
- 164 (6.5)
- 156.6 (6.2)
- 132 (5.2)
- 39 (1.5)
- 45 (1.8)
- 65 (2.6)
- 200 (7.9)
- 167 (6.6)
- 50 (2)
- 580 (22.8)
- 147.5 (5.8)
- 243 (9.6)
- 580 (22.8)
- 462 (18.2)
- 705 (27.8)
- 125 (4.9)
- 504 (19.8)
- 400 (15.7)
- 200 (7.9)
- 10 (0.4)
- 50 (2)
- 50 (2)
- 100 (3.9)
- 83 (3.3)
- 123 (4.8)
- 131 (5.2)
- 164 (6.5)
- 33 (1.3)
- 1500 (59)
- 1500 (59) - Z2 STROKE

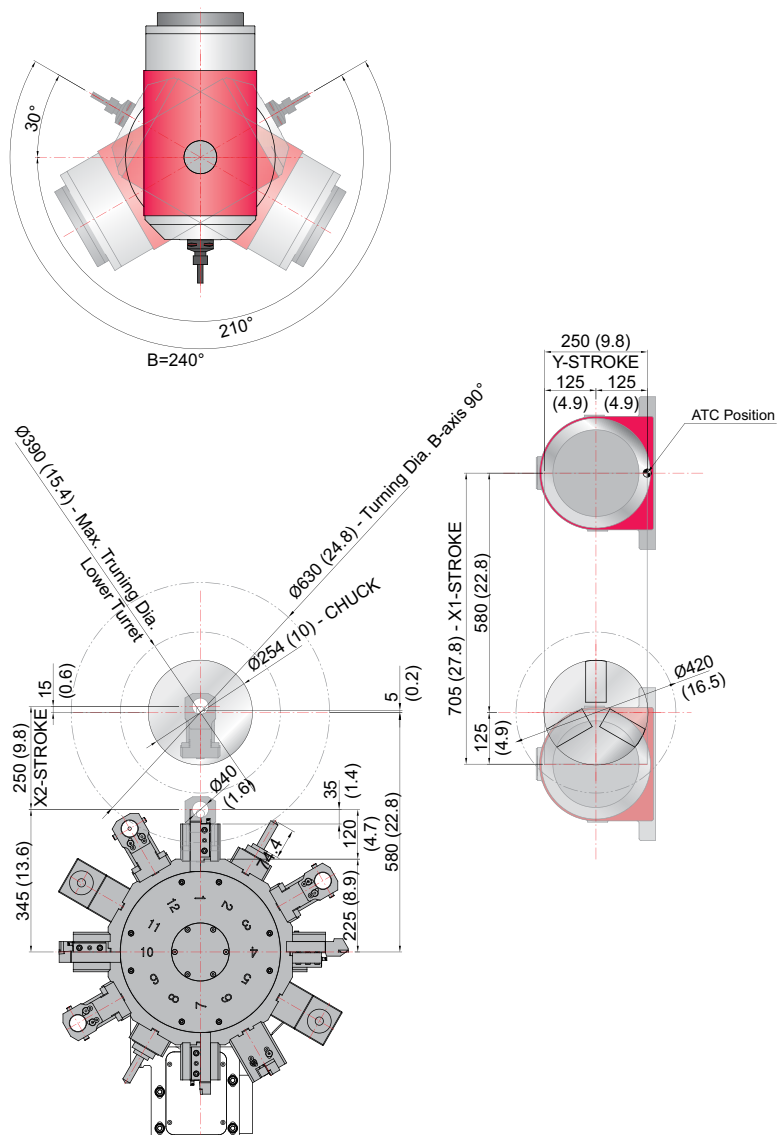
Other Labels:

- CHUCK COVER
- ATC Position
- GAP
- 9 (0.4)
- 30 (1.2)
- 10"

SPECIFICATIONS

Interference

unit : mm(in)

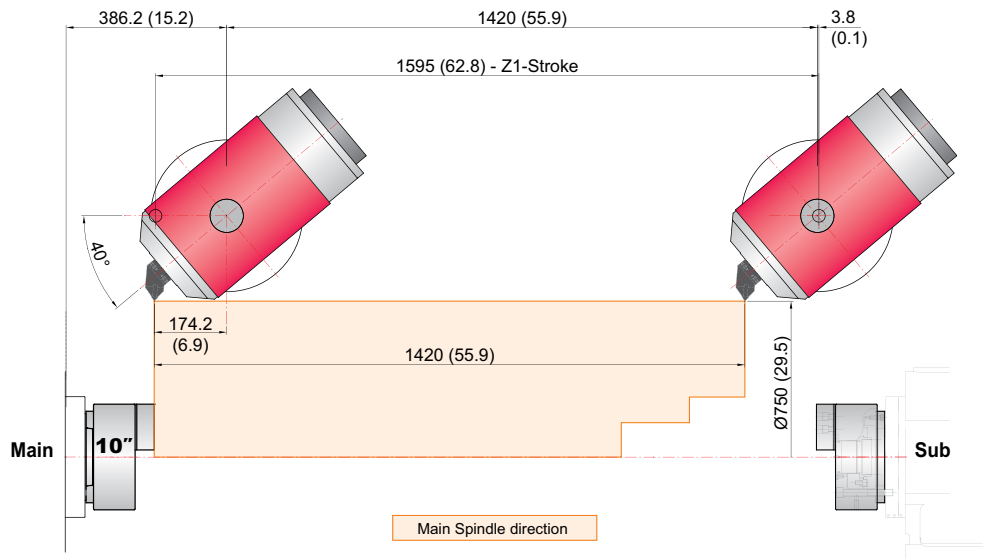


SPECIFICATIONS

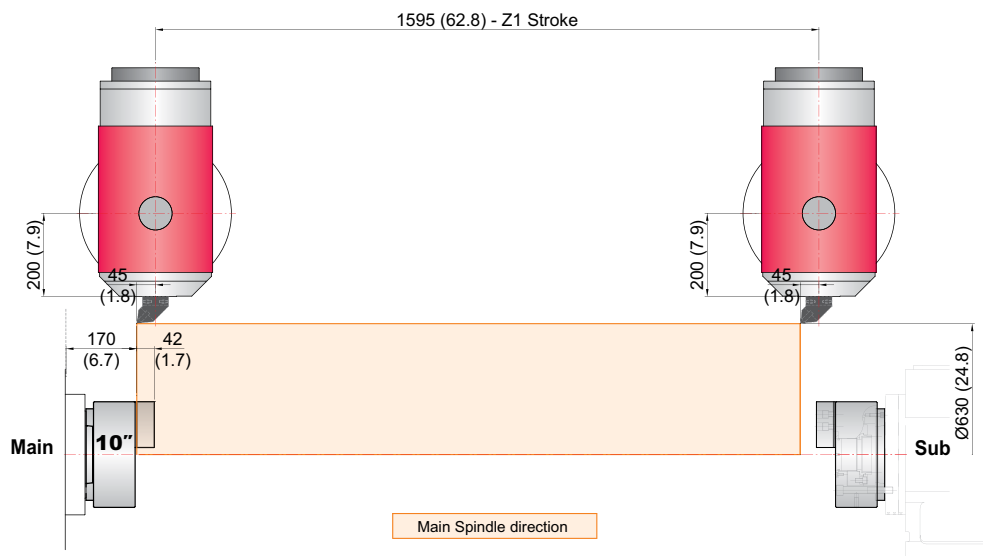
Tooling Travel Range

unit : mm(in)

Mill Head 40°



Mill Head 90°



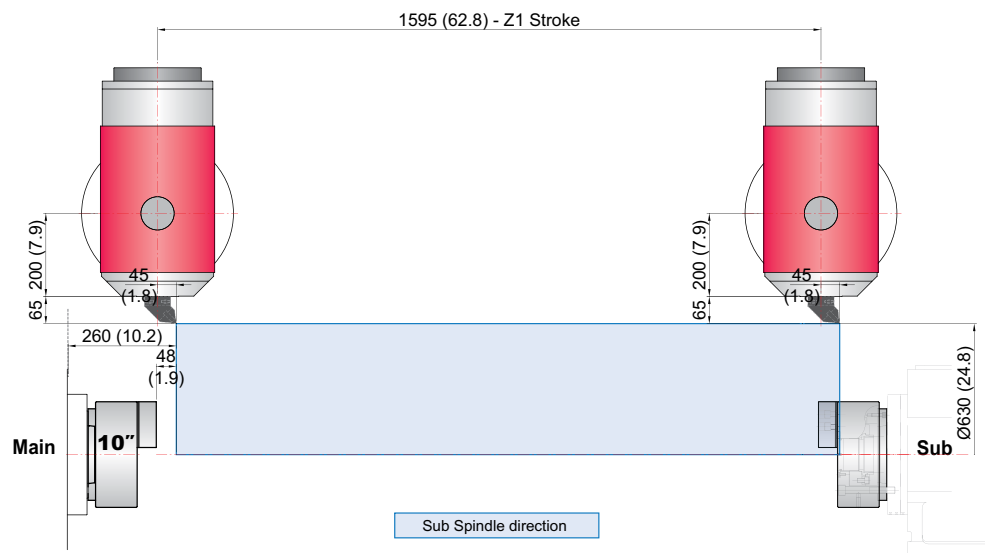
HYUNDAI WIA
MACHINE TOOL

unit : mm(in)

KMZ600UM1 IS 9-axis Multitasking Machine

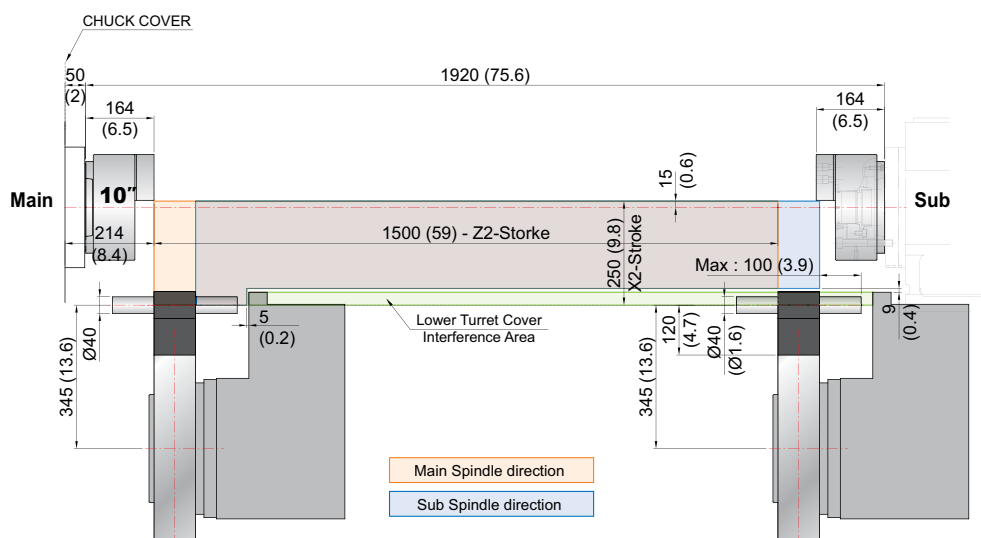


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EXPERIENCE**



Tooling Travel Range

O.D Holder

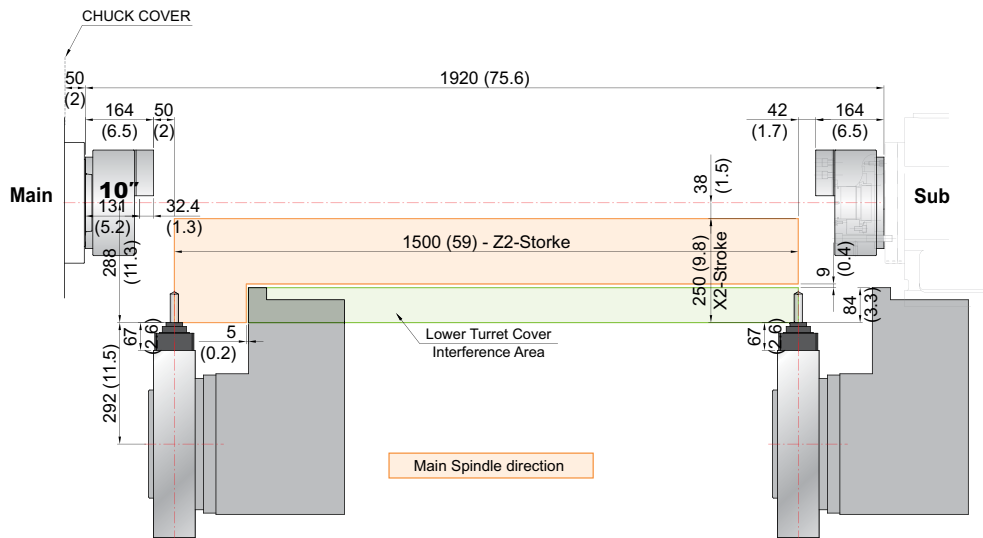


SPECIFICATIONS

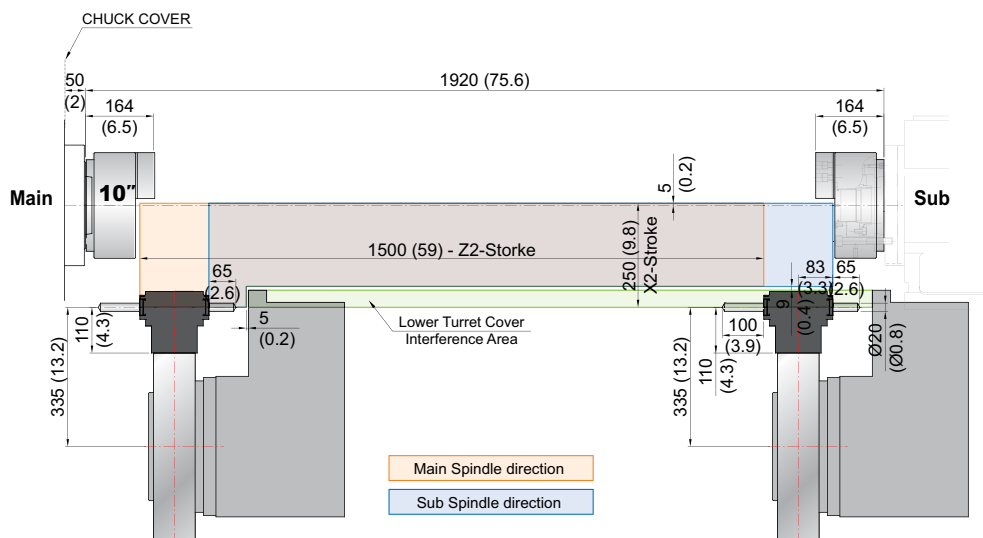
Tooling Travel Range

unit : mm(in)

Straight Mill holder



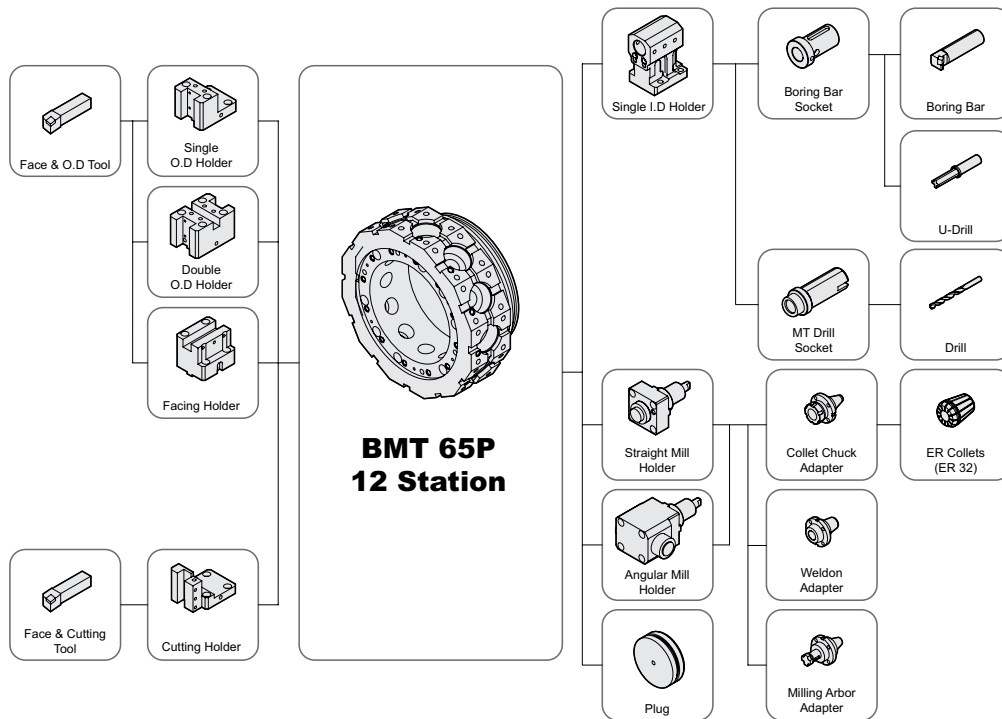
Angular Mill holder



SPECIFICATIONS

Tooling System

unit : mm(in)



Tooling Parts Detail

ITEM			KM2600MTTS	
			mm Unit	inch Unit
Turning Holder	O.D Holder	Right/Left	2	2
		Double	1	1
	Facing Holder		1	1
	Cutting Holder		1	1
Boring Holder	I.D Holder	Single	3	3
Driven Holder	Straight Mill Holder	Standard	2	2
		TTC (Tool Through Coolant)	Opt.	Opt.
	Angular Mill Holder	Standard	2	2
		TTC (Tool Through Coolant)	Opt.	Opt.
Socket	Boring	Ø10 (Ø3/8")	1	1
		Ø12 (Ø1/2")	1	1
		Ø16 (Ø5/8")	1	1
		Ø20 (Ø3/4")	1	1
		Ø25 (Ø1")	1	1
		Ø32 (1 1/4")	1	1
	Drill	MT 1	1	1
		MT 2	-	-
		MT 3	-	-
	ER Collet		1 Set	1 Set
	Adapter Set		1 Set	1 Set

SPECIFICATIONS

Specifications

[] : Option

ITEM			KM2600MTTS
CAPACITY	Max. Turning Dia. (Mill/Turret)	mm(in)	Ø750(Ø29.5") : B axis 140°, Ø630(Ø24.8") : B axis 90° / 390 (15.4")
	Max. Turing Length	mm(in)	1,550 (61")
	Bar Capacity	mm(in)	Main : Ø80 (Ø3.1") Sub : Ø80 (Ø3.1")
SPINDLE	Chuck Size	inch	Main : 10" Sub : 10"
	Spindle Speed	r/min	Main : 4,000 Sub : 4,000
	Spindle Power (Max./Cont.)	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 Bore	mm(in)	Main : Ø91 (Ø3.6") Sub : Ø91 (Ø3.6")
	Spindle Driving Methode	-	BUILT-IN MOTOR
	Spindle Nose	-	Main : A2-8 Sub : A2-8
FEED	C axis indexing Angle	deg	Main : 0.0001° Sub : 0.0001°
	Travel (X1/Z1/Y/X2/Z2/ZB)	mm(in)	705/1,595/250(±125)/250/1,500/1,586 (27.8"/62.8"/9.8"(±4.9")/9.8"/59"/62.4")
	Travel (B)	deg	240 (-30° ~ +210°)
	Rapid Traverse Rate (X1/Z1/Y/X2/Z2/ZB)	m/min	40/40/40/30/20/15 (1,575/ 1,575/ 1,575/1,181/787/591)
	Slide Type	-	LM GUIDE
MILL HEAD	Y Axis Structure	-	Orthogonal Type
	Speed	r/min	12,000
	Power (Max./Cont.)	kW(HP)	26 (34.8)
	Torque (Max./Cont.)	N·m(lbf·ft)	120/75 (88.5/55.3)
	Driven Type	-	BUILT-IN MOTOR
TURRET	B Axis Indexing Angle	deg	0.0001°
	No. of Tools	EA	12
	Tool Size (O.D/I.D)	-	□ 25/Ø40 (□ 1"/Ø1.6")
LIVE TOOL	Indexing Time	sec/step	0.2
	Milling Tool Speed (rpm)	r/min	5,000
	Max. Power	kW(HP)	3.3 (4.4)
	Max. Torque	N·m(lbf·ft)	27 (19.9)
ATC	Type	-	BMT65P
	No. of Tools	EA	36 [72]
	Tool Shank Type	-	CAPTO C6
	Max. Tool Dia. (W.T/W.O)	mm(in)	Ø90/Ø125 (Ø3.5"/Ø4.9")
	Max. Tool Length	mm(in)	400 (15.7")
	Max. Tool Weight	kg(lb)	8 (17.6)
TANK CAPACITY	Tool Selection Method	-	FIXED ADDRESS
	Coolant Tank	ℓ (gal)	600 (158.5)
	Lubricating Tank (Axis/Mill Head)	ℓ (gal)	3/1.8 (0.8/0.5)
POWER SUPPLY	Electric Power Supply	kVA	78
	Thickness of Power Cable	Sq	35
	Voltage	V/Hz	380/400/440 (50/60Hz)
MACHINE	Floor Space(L×W)	mm(in)	4,919×3,478 (193.5"x136.9")
	Height	mm(in)	2,896 (114")
	Weight	kg(lb)	19,500 (42,990)
CNC	Controller	-	SIEMENS 840D

Specifications are subject to change without notice for improvement.

HYUNDAI WIA
MACHINE TOOL

KM2600MTTS
9-axis Multitasking Machine

28
+
29

EXPERIENCE
THE NEW TECHNOLOGY

CONTROLLER

SIEMENS 840D sl

Controlled axis / Display / Accuracy Compensation	
Control axes	9 axes (X1, Y1, Z1, B1, X2, Z2, ZB, C2, C3)
Simultaneously controlled axes	Max. 5 axes
Least setting Unit	X, Z, Y, B axis : 0.001 mm (0.0001 inch) C, A axis : 1 deg [0.001] deg
Least setting Unit	X, Z, Y, B axis : 0.001 mm (0.0001 inch) C, A axis : 1 deg [0.001] deg
Inch / Metric changeover	G70 (inch) / G71 (metric)
Interlock	All axes / Each axis
Machine lock	All axes
Backlash compensation	
Pitch error compensation	(Strategic material machine)
Feedforward control	
LCD / MDI (Keyboard)	15 inch color LCD (ABCD Type) [19 inch color LCD (QWERTY Full keyboard)]
Stored stroke check	Over travel
Operation	
Automatic operation	
MDI operation	
Program restart	
Program check function	Dry run / Program check / Machine lock
Single block	
Block search	Block search
Reposition	
Working area limit	Setting working area
Interpolation functions	
Positioning	G00
Linear interpolation	G01
	G02, G03
Circular interpolation	Circular interpolation CW (G02) Circular interpolation CCW (G03)
Exact position stop	Non Modal : G09 Modal : G60 (G601, G602, G603)
Dwell	G04
Reference position return	1st reference point : G75 X0 ... FP=1 2nd reference point : G75 X0 ... FP=2
Helical interpolation	
Thread synchronous cutting	
Thread cutting retract	
Spline interpolation	Non-uniform rational B splines
☆ Compressor for 3-axis machining (Improving machining quality)	Compcad/Compcurv (Cycle832)
Feed function / Acc. & Dec. control	
	Rapid traverse
Manual feed	Jog Manual handle : x1, x10, x100 pulses Reference position return
Cutting Feed command	Direct input F code
Feedrate override	0 ~ 120%
Rapid traverse override	1%, 25%, 50%, 100%
Feed per minute	G94
Feed per revolution	G95
Look-ahead block	3000 blocks : With Mdynamics
Program input	
ISO support	G291 (ISO) / G290 (SIEMENS) (ISO G Code system-A)
Optional block skip	8 ea (0~7)
Program stop / end	M00, M01 / M02, M30
Maximum command unit	± 999,999,999 mm, ± 99,999,999 inch
Plane selection	X-Y : G17, X-Z : G18, Y-Z : G19
Workpiece coordinate system	G54~G57, G505~G599 G500 (Basic frame - Settable zero offset) G53 (Work offset non modal) G153 (Basic frame non modal)
Sub program call	16 folds nested
G code preventing buffering	STOPRE
☆ Drilling/Milling Cycle	with programing support
Turning Cycle	with programing support
User Cycle	

[] : Option ☆ Needed technical consultation

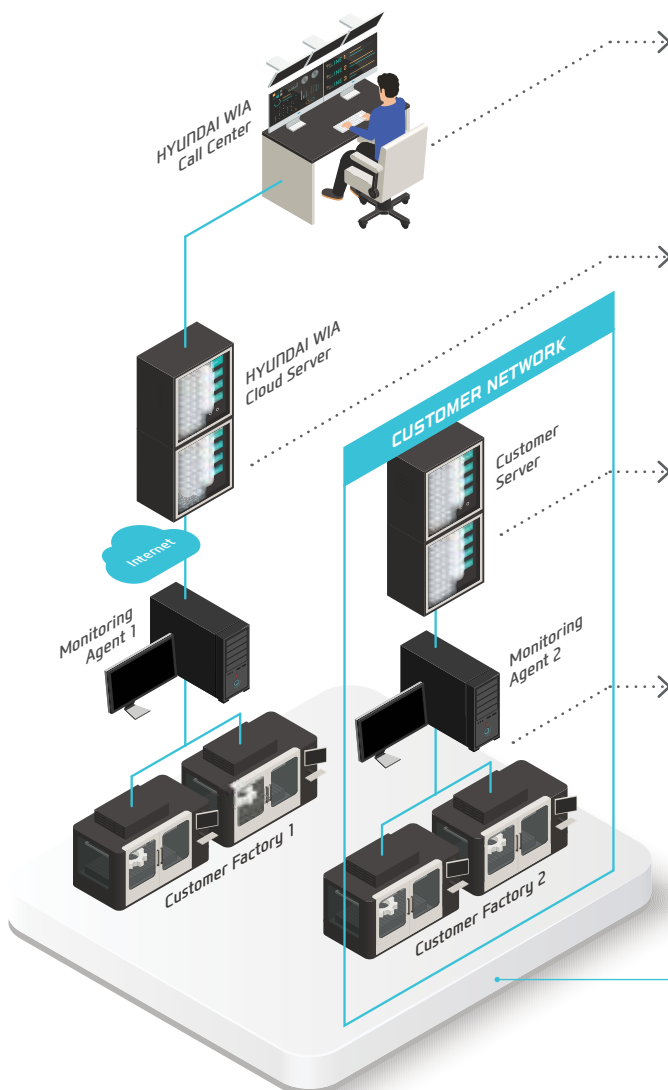
Auxiliary function / Spindle speed function	
Auxiliary function	M Code 4 digit
Spindle speed function	S Code 5 digit
Spindle override	50% ~ 120%
Spindle orientation	SPOS
Rigid tapping	
Automatic mode interchange	Spindle / Axis mode
Constant surface speed control	G96, G97
Spindle speed limitation	LIMS
Tool function / Tool compensation	
Tool function	Tool number & Tool name Tool : T + Offset : D
Tool life management	
Tools in tool list	1,500 ea
Cutting Edges in tool list	3,000 ea
☆ Tool radius compensations	ISO (G40, G41, G42)
Tool nose radius compensation	ISO (G40, G41, G42)
Geometry / Wear compensation	
Measurement of tool length	
Tool management function	
Editing function	
Part program storage size	10MB
No. of registerable programs	1,000 ea
External Storage devices	USB
Background editing	
Extended part program editing	Copy, move and change of NC program
Memory card program edit	
Data input / output & Interface	
I/O interface	USB memory interface Embedded Ethernet interface
Screenshot	
Setting, display and diagnosis	
Self-diagnosis function	
History display & Operation	Alarm & Operator message & Operation
Run hour / Parts count display	
Maintenance information	
Actual cutting feedrate display	
Display of spindle speed / T code	
Graphic display	
Operating monitor screen	Spindle / Servo load etc. Support 7 languages Chinese, English, French, German, Italian, Korean, Spanish [☆ Support 20 languages : Inquiry need]
Multi language display	
LCD Screen Saver	Screen saver & Motion sensing
Function	
Cs contour control (C & A axes)	
Polar coordinate interpolation	
Cylindrical interpolation	
Canned cycle for drilling	
Spindle synchronous control	
Servo Tailstock Function	
Polygon turning (CP-Basic)	
ShopTurn	Machining step programming for turning
3D simulation	
Simultaneous recording	Real time simulation of current machining operation
Option	
Contour handwheel	
Additional axis control	
Balance cutting	
Hobbing / Skiving (CP-Comfort)	

HW-MMS

HYUNDAI WIA Machine Monitoring System



A manufacturing machine self-developed by Hyundai Wia, HW-MMS is a unique software capable of monitoring the operation status of manufacturing machines in factories, a smart solution to improve manufacturing conditions of customers



HW-MMS Remote

Hyundai Wia Call Center's remote diagnosis service provides a HMI/video diagnostic function.



HW-MMS Cloud

A cloud server-based equipment monitoring system for collecting and analyzing facility operation data.



HW-MMS Edge

A client server-based tool monitoring system for collection/analysis of facility operation data. (Compatible with client MES / ERP interface)



HW-MMS Edge Plus

This is a facility big data-based smart factory solution that collects and analyzes spindle/feed data, tool lifespan, NC processing files, etc. in real time

HYUNDAI WIA Smart Factory Solution



You Tube HYUNDAI WIA MT
www.youtube.com/HYUNDAIWIAMT

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