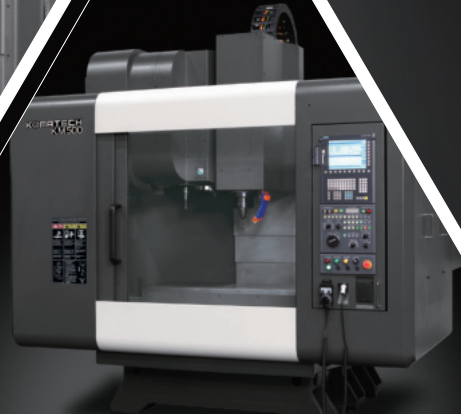


PRODUCT LINEUP

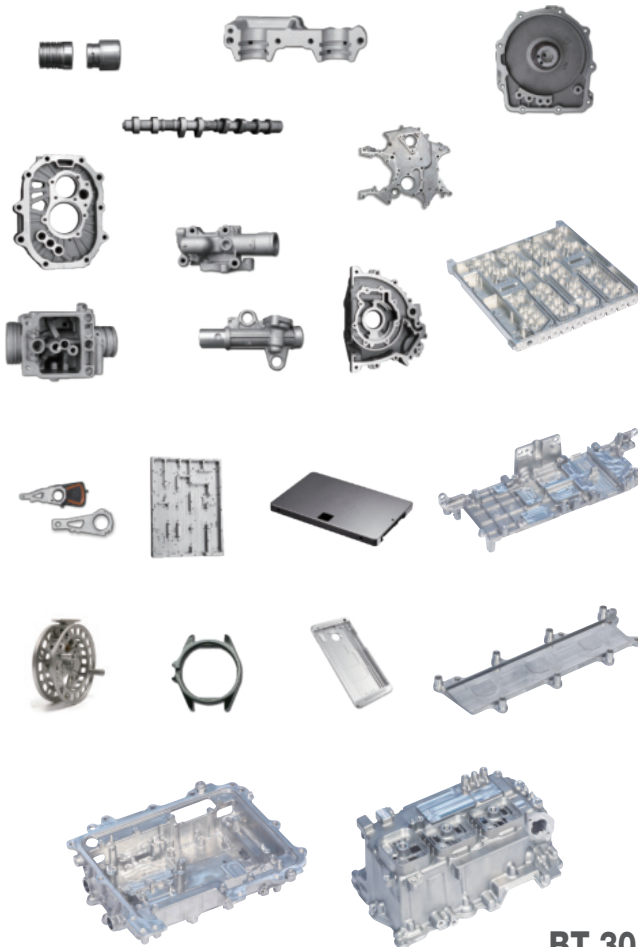


KOMATECH

MACHINE TOOLS LINE-UP

Examples of target workpieces

I.T & 자동차부품 / 일반가공품



HIGH SPEED TAPPING CENTER

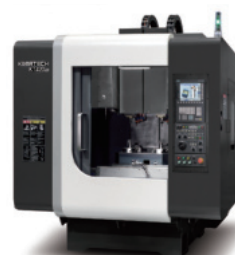
KT 420



KT 420A



KT 420DH



KT 420L



KT 420AL



KT 360D



KT 500



KT 700



HIGH SPEED MACHINING CENTER

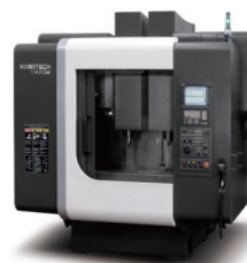
KM 430



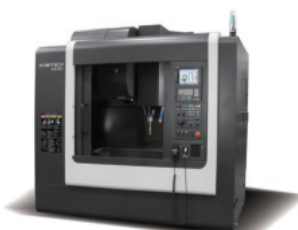
KM 450D



KM 450DH



KM 450



KM 500



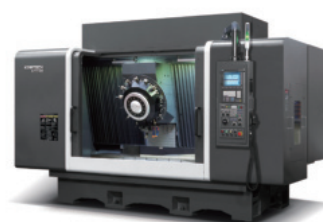
HORIZONTAL MACHINING CENTER

KM 500H



LONG TRAVEL MACHINING CENTER

KT 2000(2100)



■ HIGH SPEED TAPPING CENTER

KT 420 series

High productive, high-speed tapping center with compact design, high acceleration and rapids



KT 420



KT 420A

| SPECIFICATIONS | KT 420(L) | KT 420A(AL) |
|----------------------------|---|---|
| X/Y/Z travels(mm) | 560(700)/420/350 | 560(700)/420/480 |
| Spindle taper | ISO No.30 | ISO No.30 |
| Max. spindle speed(rpm) | 10,000 / High torque 10,000 (Opt.) 15,000 (Opt.) / 24,000 (Opt.) | 10,000 / High torque 10,000 (Opt.) 15,000 (Opt.) / 24,000 (Opt.) |
| Tool storage capacity(pcs) | 14 / 21 (Opt.) / 28 (Opt.) | 20 / 26 (Opt.) |
| Machine size(mm) | 1,752 (2,064) x 2,600 | 1,752 (2,064) x 2,600 |

TURRET TYPE TOOL CHANGER KT420 / KT 420L



Tool to Tool

0.96 sec

Chip to Chip

1.37 sec

*1 MITSUBISHI HIGH ACC.SPECIFICATION

The self-developed tool changer has secured high durability by the sealed structure of the drive unit, and the design optimized for high-speed rotation provides the best-in-class tool change speed.

* Tool storage capa.: 14 pcs [Opt: **21** / **28** pcs]

TWIN ARM TYPE TOOL CHANGER KT420A / KT 420AL



Tool to Tool

1.2 sec

Chip to Chip

1.8 sec

Store the tool in a side magazine box to block chip inflow, protect the taper surface, and prepare the following tool ports during processing for quick tool change without unnecessary latency.

* Tool storage capa.: 20 pcs [Opt: **26** pcs]

VARIOUS SPINDLE SPEED



STD. **10,000** rpm

OTP. **10,000** rpm
(High Torque)

15,000 rpm
24,000 rpm

HIGH TORQUE SPECIFICATION (OPT.)

Max. torque **84.3 Nm**

HIGH ACC. SPECIFICATION (OPT.)

0 rpm ↔ 10,000 rpm **0.19 sec**

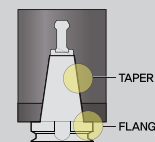
MITSUBISHI NC SPEC.

The cutting oil inflow prevention design and ultra-precise bearing and high-tensile spring application provide high durability and precision during processing. In addition, a various spindle speed specifications can cope with a wide range of machining.

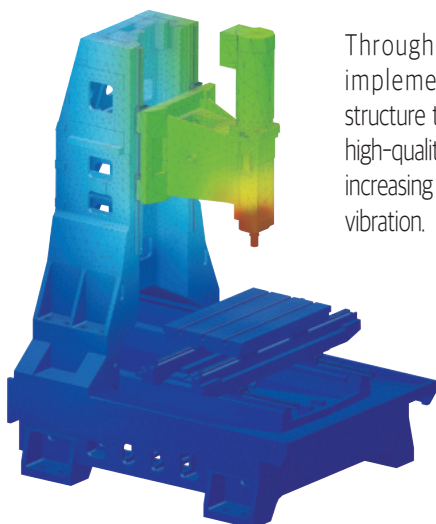
*CTS is available(OPT.)

BIG PLUS BBT (Opt.)

The 2-face locking tool system(Big plus) is available. It offers longer tool life, higher power and more precise machining by the dual contact both flange face and taper face.

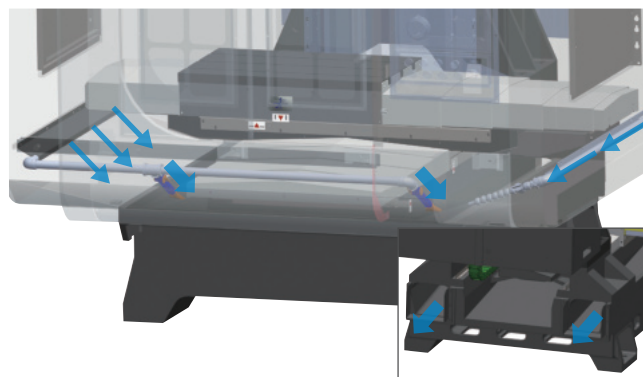


HIGH RIGIDITY STRUCTURE



Through structural analysis implemented a mechanical structure that enables stable and high-quality cutting processing by increasing rigidity and minimizing vibration.

CHIP DISCHARGE CAPABILITY



The bad structure tilted from front to rear, the optimization of chip discharge paths and bed shower nozzles, and the application of improved pumps for high-discharge bed showers enable smooth chip discharge from inside equipment to tank.

*1 Standard NC specification tool change time (T-T): SIEMENS: 1.08 sec / MITSUBISHI: 1.07 sec

■ HIGH SPEED TAPPING CENTER

KT 420DH / KM 450DH

High-speed tapping / machining center with overwhelming high-productivity dual spindle



KT 420DH



KM 450DH

| SPECIFICATIONS | KT 420DH | KM 450DH |
|----------------------------|---|-----------------------|
| X/Y/Z travel(mm) | 560 / 420 / 430 | 560 / 450 / 430 |
| Spindle taper | ISO No.30 | ISO No.40 |
| Max. spindle speed(rpm) | 10,000 / High torque 10,000 (Opt.) 15,000 (Opt.) / 24,000 (Opt.) | 8,000 / 12,000 (Opt.) |
| Tool storage capacity(pcs) | 20 x 2 / 26 x 2 (Opt.) | 20 x 2 |
| Machine size(mm) | 2,120 x 2,775 | 2,500 x 2,835 |

DUAL HEAD STRUCTURE

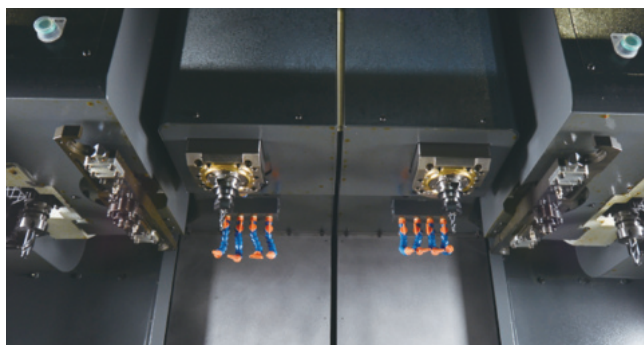
Ultra-high productivity base on 2 spindles simultaneous machining.

Minimize plant utility, floor space, optional devices.

Reduce total investment cost compared to 1 spindle machine.

KT 420DH is optimized for same accuracy after simultaneous machining as two independent Z-axis and head structure. Convenient tool length and Z-axis work coordinate setup is available and various machining application is possible through separated motion when it is necessary.

TWIN ARM TYPE TOOL CHANGER



KT 420DH

Tool to Tool **1.2** sec
Chip to Chip **1.8** sec

KM 450DH

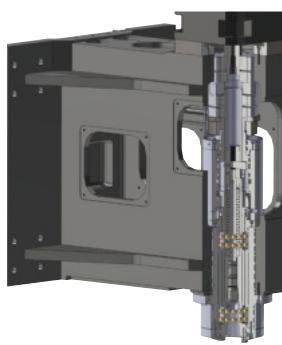
Tool to Tool **1.4** sec
Chip to Chip **2.3** sec

VARIOUS SPINDLE SPEED



KT 420DH (BT30)

STD. **10,000** rpm
OTP. **10,000** rpm
(High Torque)
15,000 rpm
24,000 rpm



KM 450DH (BT40)

Max. speed
STD. **8,000** rpm
OTP. **12,000** rpm

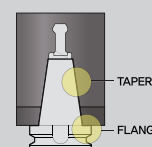
Max. torque
118.0 Nm

The cutting oil inflow prevention design and ultra-precise bearing and high-tensile spring application provide high durability and precision during processing. In addition, a various spindle speed specifications can cope with a wide range of machining.

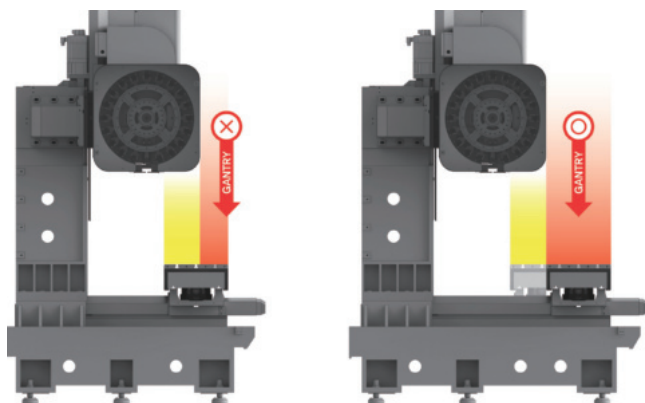
*CTS is available(OPT.)

BIG PLUS BBT (Opt.)

The 2-face locking tool system(Big plus) is available. It offers longer tool life, higher power and more precise machining by the dual contact both flange face and taper face.

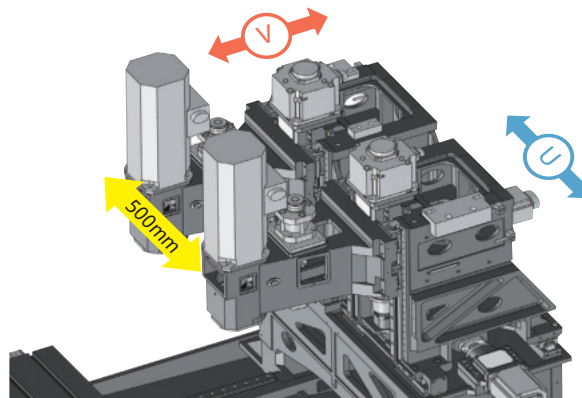


Y-AXIS EXPANSION(OPT.)



The 200mm extension is possible to the front of the Y-axis makes it easy to build automation of the gantry loader.

MICRO ADJUSTMENT OF SPINDLE DISTANCE (OPT.)



U-axis & V-axis are available for ± 2 mm micro-adjustment and these can flexibly cope with the jig application when applying the rotary table.

■ HIGH SPEED TAPPING CENTER

KT 360D

High productivity dual table tapping center with pallet changer

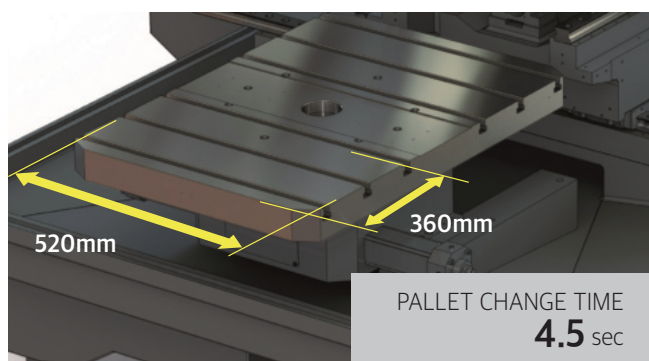


SPECIFICATIONS

| | |
|----------------------------|---|
| Table size(mm) | 650 x 360 (One face) |
| X/Y/Z travels(mm) | 520 / 360 / 300 |
| Spindle taper | ISO No.30 |
| Max. spindle speed(rpm) | 10,000 / High torque 10,000 (Opt.) 15,000 (Opt.) / 24,000 (Opt.) |
| Tool storage capacity(pcs) | 14 / 21 (Opt.) |
| Machine size(mm) | 1,760(2,060)* x 3,200 |

* 21T MAGAZINE SPEC.

HIGH RELIABLE DUAL TABLE



Hydraulic HIRTH coupling gear-type precision dual table quickly and accurately performs positioning after rotating the table without UP&DOWN motion.

VARIOUS SPINDLE SPEED



STD. **10,000** rpm

OTP. **10,000** rpm
(High Torque)

15,000 rpm

24,000 rpm

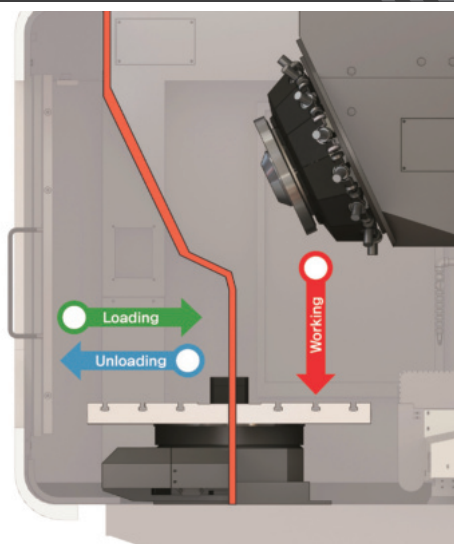
MITSUBISHI NC SPEC.

The cutting oil inflow prevention design and ultra-precise bearing and high-tensile spring application provide high durability and precision during machining. In addition, a various spindle speed specifications can cope with a wide range of machining.

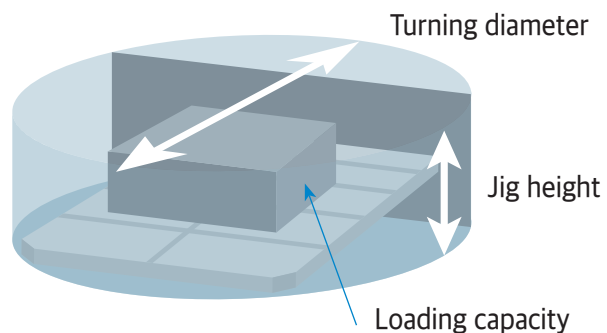
*CTS is available(OPT.)

MINIMIZE NON-CUTTING TIME

The workpiece on the opposite table can be exchanged during processing, shortening non-cutting time.



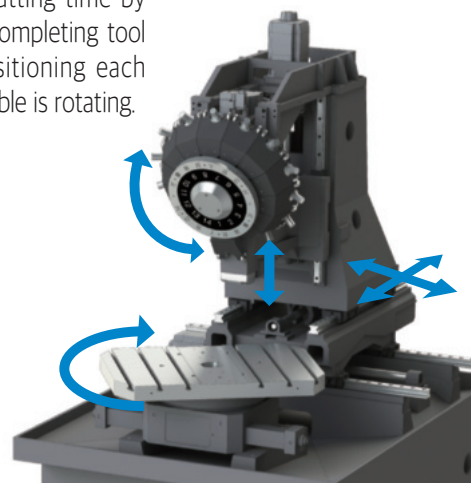
APPLICATION RANGE OF JIG



Loading capacity \varnothing **1,000**
Jig height **320** mm
Loading capacity **200 kg x 2**

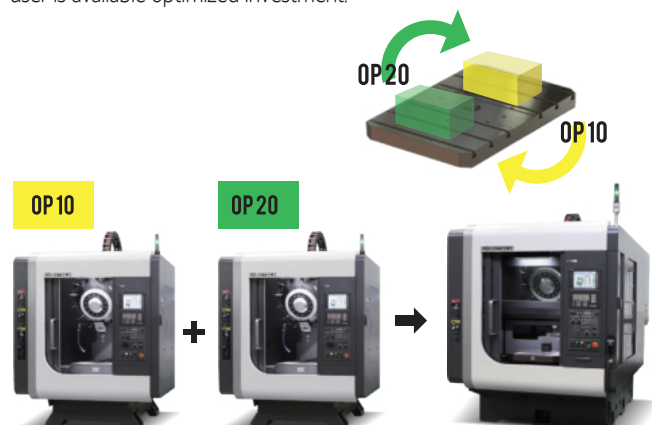
SIMULTANEOUS MOTION CONTROL

Minimize non-cutting time by simultaneously completing tool change and positioning each axes while the table is rotating.



PROCESS DUALIZATION

The application of the dual table and the 21 tool magazine can perform 2 processes in one machine and the line balance can be improved. And the user is available optimized investment.



■ HIGH SPEED TAPPING CENTER

KT 500

High-speed tapping center with 50 m/min rapids and wide work area.

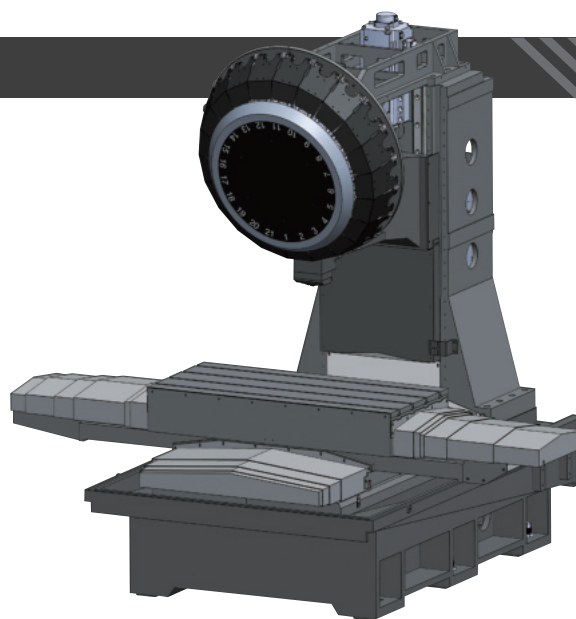
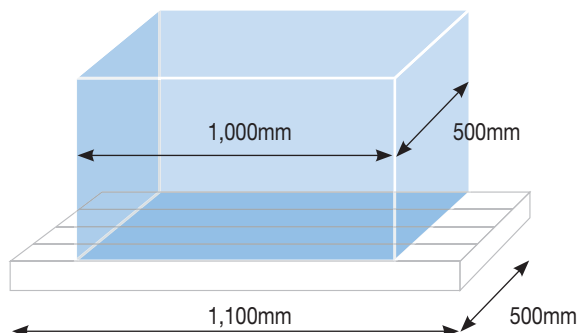


SPECIFICATIONS

| | |
|----------------------------|---|
| X/Y/Z travel(mm) | 1,000 / 500 / 300 |
| Spindle taper | ISO No.30 |
| Max. spindle speed(rpm) | 10,000 / High torque 10,000 (Opt.) 15,000 (Opt.) / 24,000 (Opt.) |
| Tool storage capacity(pcs) | 14 / 21 (Opt.) / 28 (Opt.) |
| Machine size(mm) | 2,548 x 2,753 |

WIDE WORKING AREA

A wide area of X1,100 x Y500 mm can apply for a various jig, including from large light cutting workpiece used in existing machining center to a number of small workpiece.



VARIOUS SPINDLE SPEED



STD. **10,000** rpm

OTP. **10,000** rpm
(High Torque)

15,000 rpm

24,000 rpm

HIGH TORQUE SPECIFICATION (OPT.)

Max. torque **84.3 Nm**

HIGH ACC. SPECIFICATION (OPT.)

0 rpm ↔ 10,000 rpm **0.19 sec**

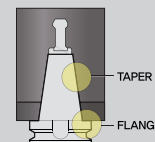
MITSUBISHI NC SPEC.

The cutting oil inflow prevention design and ultra-precise bearing and high-tensile spring application provide high durability and high precision during machining. In addition, a various spindle speed specifications can cope with a wide range of machining

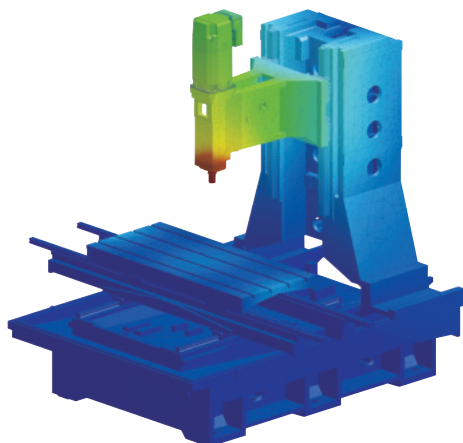
*CTS is available (OPT.)

BIG PLUS BBT (Opt.)

The 2-face locking tool system(Big plus) is available. It offers longer tool life, higher power and more precise machining by the dual contact both flange face and taper face.



HIGH RIGIDITY STRUCTURE



Through structural analysis implemented a mechanical structure that enables stable and high-quality cutting processing by increasing rigidity and minimizing vibration.

TURRET TYPE TOOL CHANGER



Tool to Tool

1.03 sec

Chip to Chip

1.37 sec

*1 MITSUBISHI HIGH ACC.
SPECIFICATION

The self-developed tool changer has secured high durability by the sealed structure of the drive unit, and the design optimized for high-speed rotation provides the best-in-class tool change speed.

* Tool storage capacity: 14 pcs [Opt: 21 / 28 pcs]

*1 Standard NC specification tool change time (T-T): 1.2 sec

■ HIGH SPEED TAPPING CENTER

KT 700

High-speed tapping center with precise and powerful machining performance

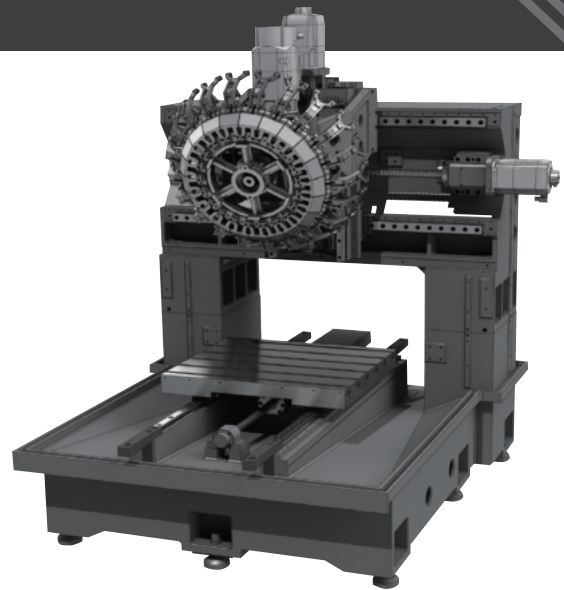
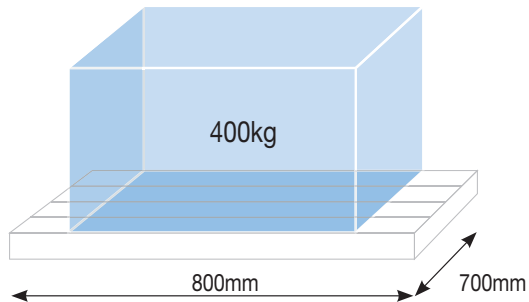


SPECIFICATIONS

| | |
|----------------------------|---|
| X/Y/Z travel(mm) | 800 / 700 / 300 |
| Spindle taper | ISO No.30 |
| Max. spindle speed(rpm) | 10,000 / High torque 10,000 (Opt.) 15,000 (Opt.) / 24,000 (Opt.) |
| Tool storage capacity(pcs) | 14 / 21 (Opt.) / 28 (Opt.) |
| Machine size(mm) | 2,164 x 2,923 |

HIGH RIGIDITY STRUCTURE

X-axis and Y-axis have separate moving structures, enabling stable high-precision work, 800x700mm wide-area travel distance and up to 400kg weight can be loaded, enabling a wide range of Jig application from a large workpiece to a number of small workpiece.



VARIOUS SPINDLE SPEED



STD. **10,000** rpm

OTP. **10,000** rpm
(High Torque)

15,000 rpm

24,000 rpm

HIGH TORQUE SPECIFICATION (OPT.)

Max. torque **84.3** Nm

HIGH ACC. SPECIFICATION (OPT.)

0 rpm ↔ 10,000 rpm **0.19** sec

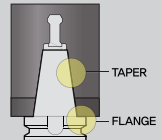
MITSUBISHI NC SPEC.

The cutting oil inflow prevention design and ultra-precise bearing and high-tensile spring application provide high durability and precision during processing. In addition, a various spindle speed specifications can cope with a wide range of machining.

*CTS is available (OPT.)

BIG PLUS BBT (Opt.)

The 2-face locking tool system(Big plus) is available. It offers longer tool life, higher power and more precise machining by the dual contact both flange face and taper face.



TURRET TYPE TOOL CHANGER



Tool to Tool

1.03 sec

Chip to Chip

1.37 sec

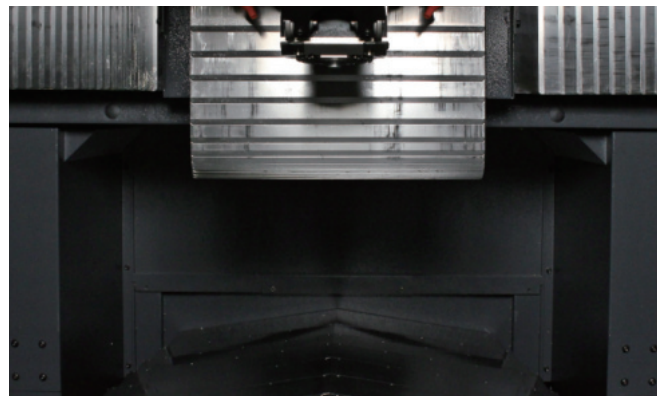
*1 MITSUBISHI HIGH ACC.
SPECIFICATION

The self-developed tool changer has secured high durability by the sealed structure of the drive unit, and the design optimized for high-speed rotation provides the best-in-class tool change speed.

* Tool storage capa.: 14 pcs [Opt: 21 / 28 pcs]

*1 Standard NC specification tool change time (T-T): 1.2 sec

MULTI COVER



The travel area is sealed with a multi cover to prevent chips from the machining area, leading to improved travel area's durability and reliability.

■ HIGH SPEED MACHINING CENTER

KM 430

High productive, high-speed machining center with compact design and 48 m/min of rapids.

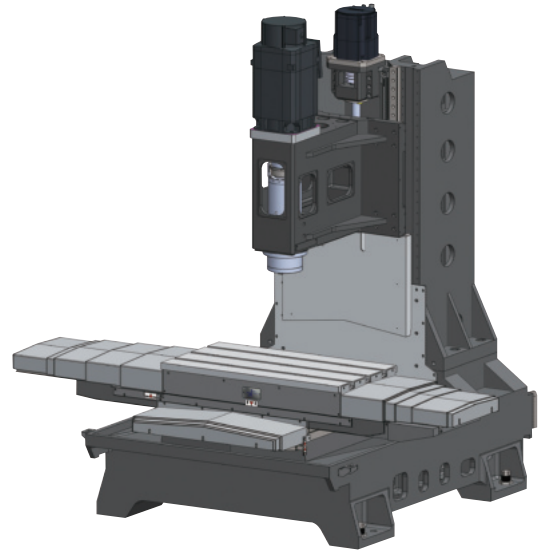
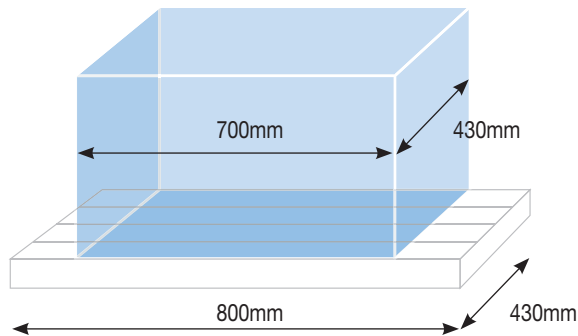


SPECIFICATIONS

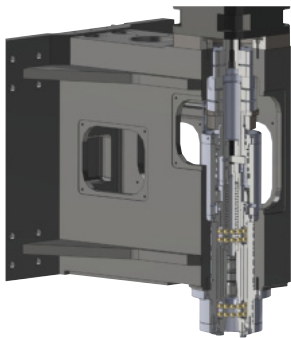
| | |
|----------------------------|-----------------------|
| Table size(mm) | 800 x 430 |
| X/Y/Z travel(mm) | 700 / 430 / 430 |
| Spindle taper | ISO No.40 |
| Max. spindle speed(rpm) | 8,000 / 12,000 (Opt.) |
| Tool storage capacity(pcs) | 20 / 24 (Opt.) |
| Machine size(mm) | 2,064 x 2,603 |

BASE FEATURE

Work area of X800 x Y430mm, rapids of 48 m/min and BT40-class spindle can cope with a various machining with high productivity and heavy-duty machining close to tapping center.



HIGH PERFORMANCE SPINDLE



MAX. SPEED
STD. **8,000** rpm
OTP. **12,000** rpm

MAX. TORQUE
118.0 Nm

MITSUBISHI NC SPEC.

The cutting oil inflow prevention design and ultra-precise bearing and high-tensile spring application provide high durability and precision during processing. In addition, a various spindle speed specifications can cope with a wide area of machining.

*CTS is available (OPT.)

TWIN ARM TYPE TOOL CHANGER



Tool to Tool
1.4 sec

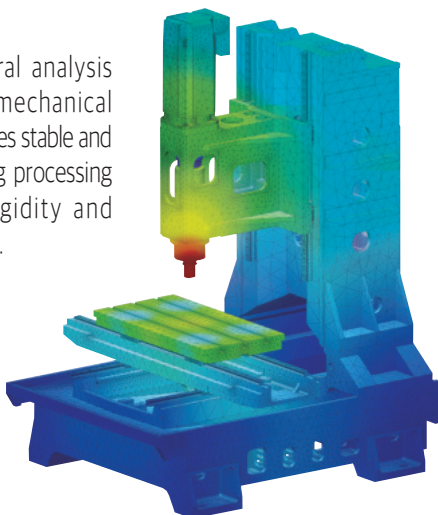
Chip to Chip
2.5 sec

* Tool storage capacity: 20 pcs [Opt: 24 pcs]

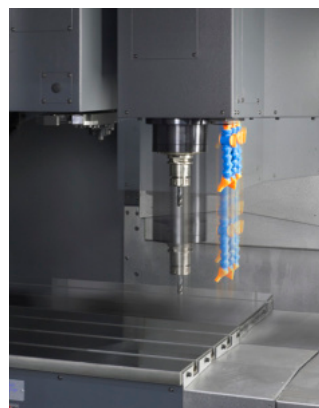
High-speed cam motor driven twin arm type tool changer. the optimized tool change sections ensure faster and more stable movement and higher durability.

HIGH RIGIDITY STRUCTURE

Through structural analysis implemented a mechanical structure that enables stable and high-quality cutting processing by increasing rigidity and minimizing vibration.



SLIDEWAY



RAPIDS (X/Y/Z)

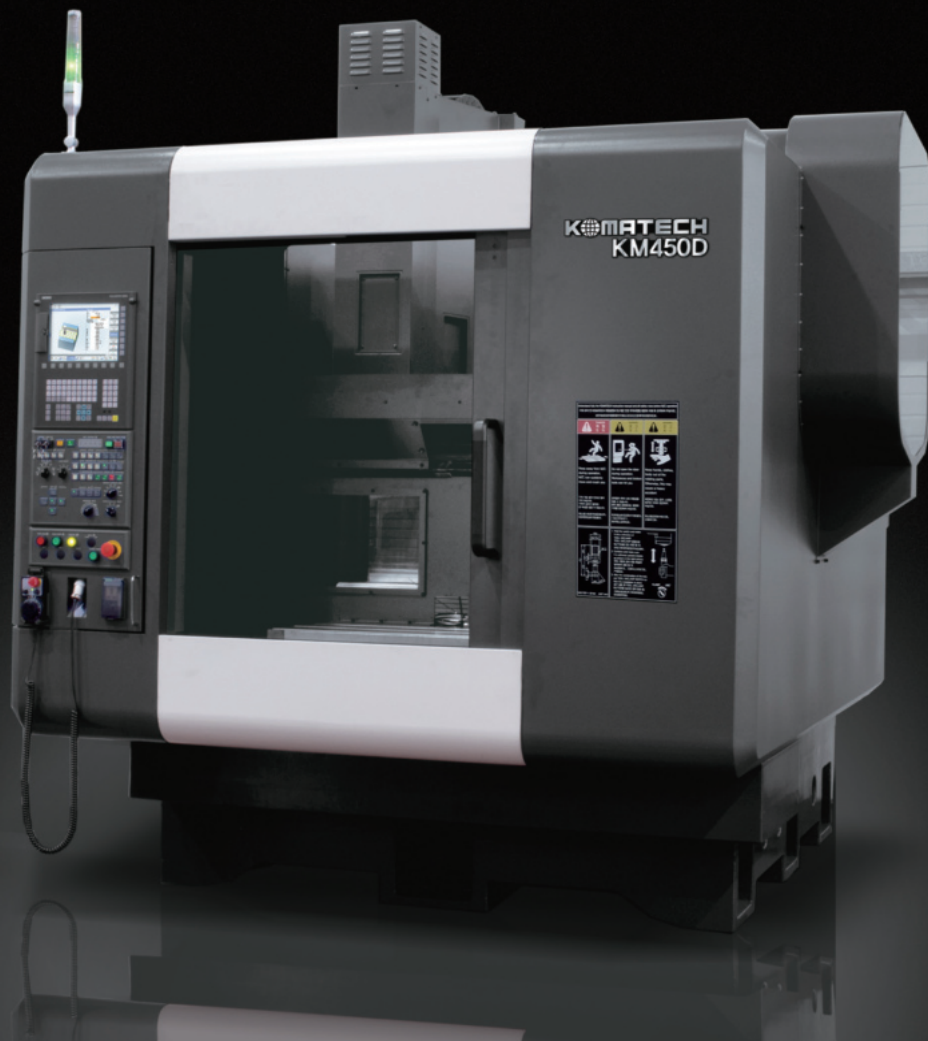
48/48/48 m/min

High-power servo motors with excellent responsiveness, high-precision L/M guides, and ultra-precise ball screws were applied to secure high reliability and fast travel capability.

■ HIGH SPEED MACHINING CENTER

KM 450D

High productivity dual table machining center with pallet changer

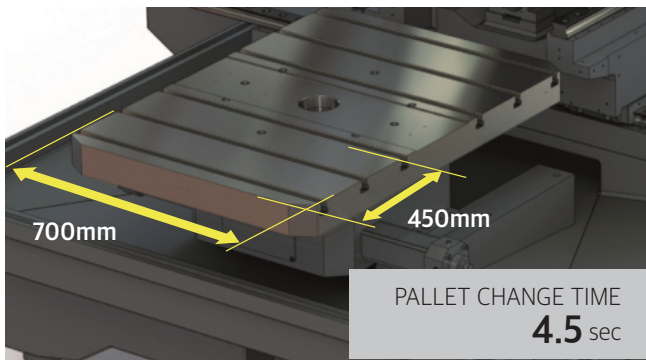


SPECIFICATIONS

| | |
|----------------------------|-----------------------|
| Table size(mm) | 700 x 450 (One face) |
| X/Y/Z travels(mm) | 700/450/480(420)* |
| Spindle taper | ISO No.40 |
| Max. spindle speed(rpm) | 8,000 / 12,000 (Opt.) |
| Tool storage capacity(pcs) | 24 / 30 (Opt.) |
| Machine size(mm) | 2,345 x 3,505 |

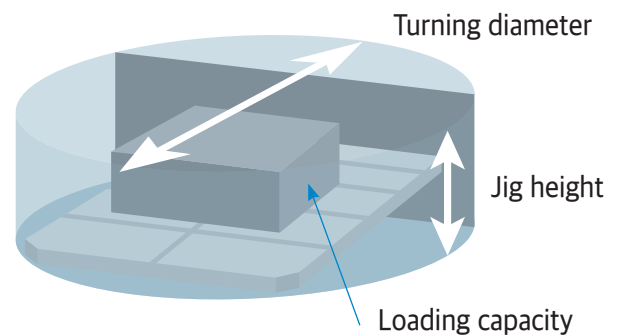
* When 30T magazine is applied.

HIGH RELIABLE DUAL TABLE



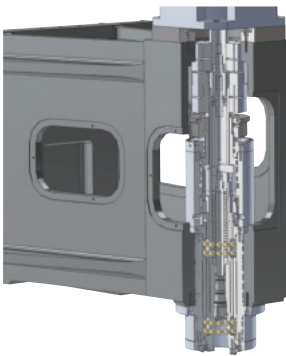
The hydraulic HIRTH coupling gear type precision dual table performs positioning quickly and accurately after rotating the table without a separate UP&DOWN operation.

APPLICATION RANGE OF JIG



Loading capacity \varnothing 1,280
Jig height **400 mm**
Loading capacity **200 kg x 2**

HIGH PERFORMANCE SPINDLE



MAX. SPEED
STD. **8,000 rpm**
OTP. **12,000 rpm**

MAX. TORQUE
118.0 Nm

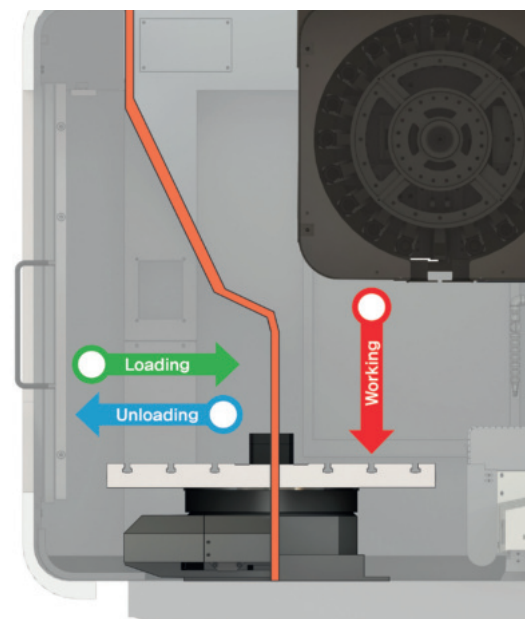
Mitsubishi NC specification.

The cutting oil inflow prevention design and ultra-precise bearing and high-tensile spring application provide high durability and precision during processing. In addition, a various spindle speed specifications can cope with a wide area of machining.

*CTS is available (OPT.)

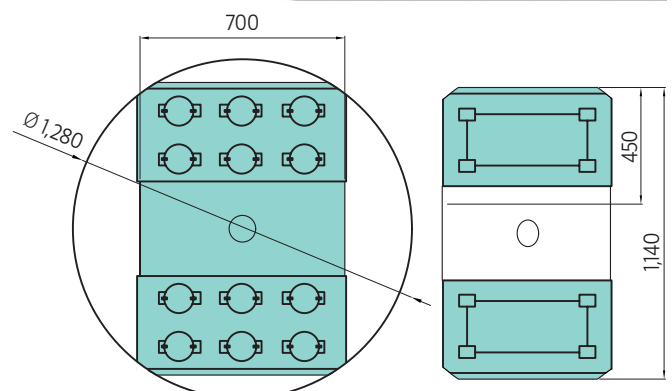
REDUCTION OF NON-CUTTING TIME

The workpiece on the opposite table can be exchanged during processing, shortening non-cutting time.



PROCESS DUALIZATION

The application of the dual table and the 30 tool magazine can perform 2 processes in one machine and the line balance can be improved. And the user is available optimized investment.



[Examples of application]

■ HIGH SPEED MACHINING CENTER

KM 450 / KM 500

High-performance machining center with powerful and precise machining capability.



KM 450

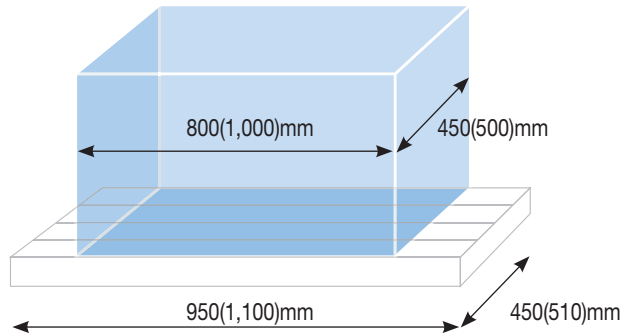


KM 500

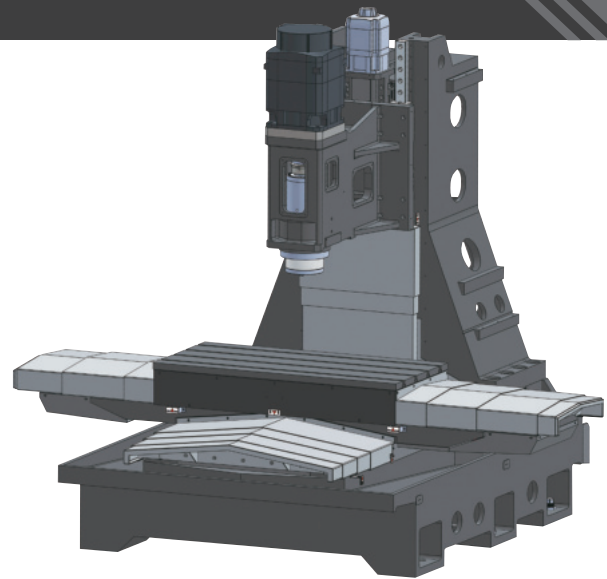
| SPECIFICATIONS | KM 450 | KM 500 |
|----------------------------|-----------------------|-----------------------|
| Table size(mm) | 950 x 450 | 1,100 x 510 |
| X/Y/Z travel(mm) | 800 / 450 / 510 | 1,000 / 500 / 520 |
| Spindle taper | ISO No.40 | ISO No.40 |
| Max. spindle speed(rpm) | 8,000 / 12,000 (Opt.) | 8,000 / 12,000 (Opt.) |
| Tool storage capacity(pcs) | 24 / 30 (Opt.) | 24 / 30 (Opt.) |
| Machine size(mm) | 2,500 x 2,833 | 2,692 x 2,886 |

HIGH RIGIDITY STRUCTURE

Through structural analysis implemented a mechanical structure that enables stable and high-quality cutting processing by increasing rigidity and minimizing vibration.



* (): KM 500's specifications



HIGH PERFORMANCE SPINDLE



MAX. SPEED
STD. **8,000** rpm
OTP. **12,000** rpm

MAX. TORQUE
159.0 Nm

MITSUBISHI NC SPEC.

Cutting oil inflow prevention design, ultra-precise bearing and high-tensile spring application provide high durability and precision during processing, and optimization of torque and acc./deceleration according to low-speed/high-speed sections can cope with various machining including heavy-duty cutting and high-speed milling.

*CTS is available (OPT.)

TWIN ARM TYPE TOOL CHANGER

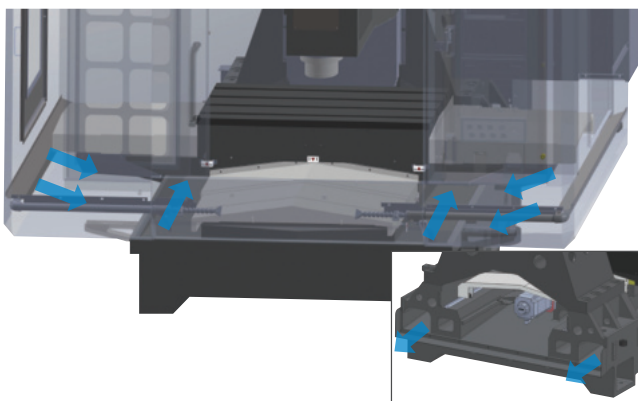


Tool to Tool
1.7 sec

Chip to Chip
2.9 sec

High-speed cam motor driven twin arm type tool changer. the optimized tool change sections ensure faster and more stable movement and higher durability.

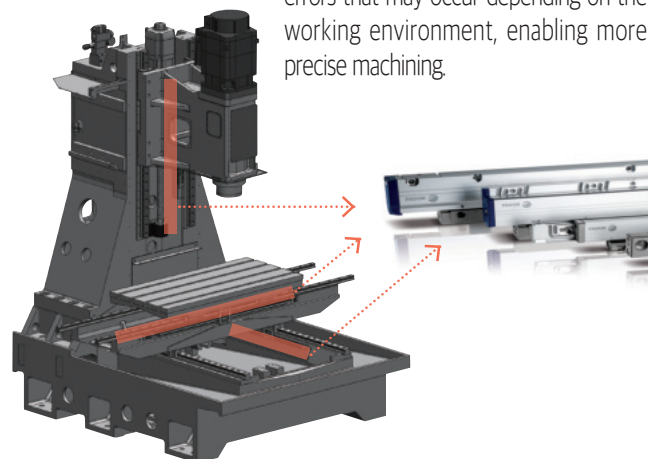
CHIP DISCHARGE CAPABILITY



The bad structure tilted from front to rear, the optimization of chip discharge paths and bed shower nozzles, and the application of improved pumps for high-discharge bed showers enable smooth chip discharge from inside equipment to tank.

HIGH PRECISION MACHINING (OPT.)

Applying linear scale to the X/Y/Z axis minimizes thermal displacement errors that may occur depending on the working environment, enabling more precise machining.



■ HORIZONTAL MACHINING CENTER

KM 500H

High-productivity, high-performance horizontal machining center with heavy-duty machining capability

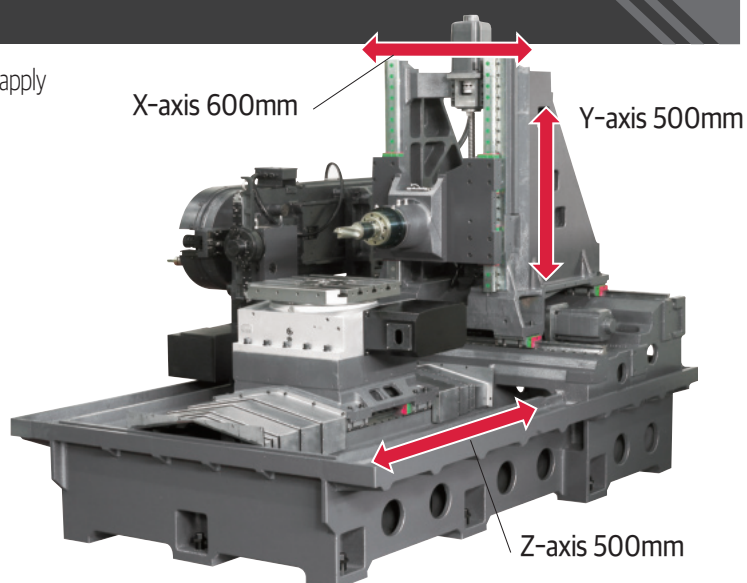
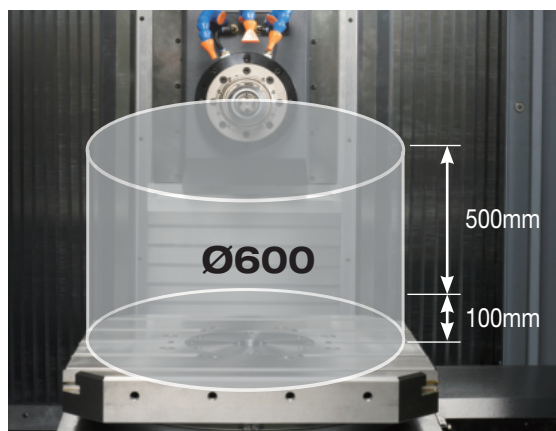


SPECIFICATIONS

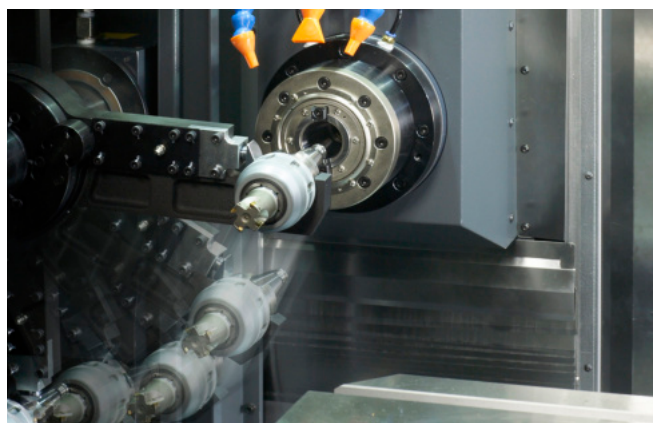
| | |
|----------------------------|----------------------|
| Table size(mm) | 500 x 500 |
| X/Y/Z travels(mm) | 600/500/500 |
| Spindle taper | ISO No.40 |
| Max. spindle speed(rpm) | 8,000 / 12,000(Opt.) |
| Tool storage capacity(pcs) | 60 |
| Machine size(mm) | 3,259 x 3,870 |

WIDE WORK AREA

A work area of 600 x 600mm and 600kg of loading capability can apply a various jig application.

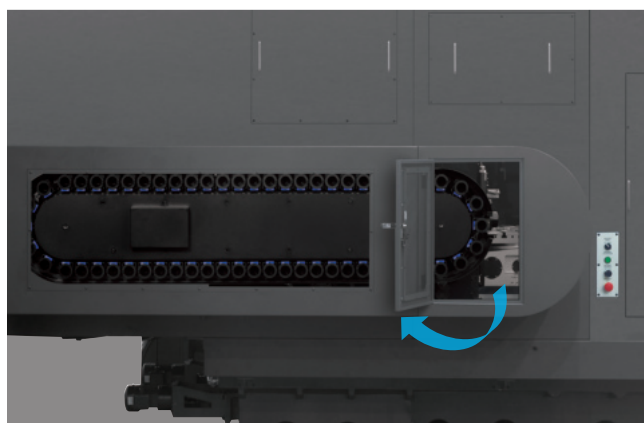


TWIN ARM TYPE TOOL CHANGER



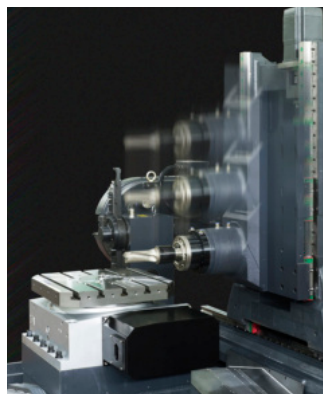
By optimizing the tool change section, fast and stable tool change is performed, and the machining area and magazine room are separated through the shutter to minimize chip entering.

60TOOL MAGAZINE



The servo motor driven type magazine can move tools quickly and store up to 60 tools and apply a various machining.

HIGH PERFORMANCE SPINDLE



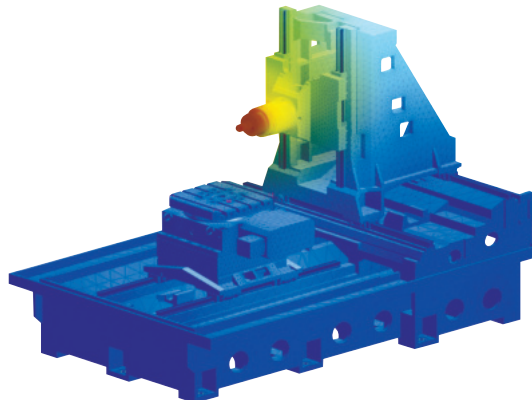
MAX. SPEED
STD. **8,000** rpm
OTP. **12,000** rpm

MAX. TORQUE
159.0 Nm

Cutting oil inflow prevention design, ultra-precise bearing and high-tensile spring application provide high durability and precision during processing.

*CTS is available (OPT.)

HIGH RIGIDITY STRUCTURE



Through structural analysis implemented a mechanical structure that enables stable and high-quality cutting processing by increasing rigidity and minimizing vibration.

LONG TRAVEL MACHINING CENTER

KT 2000 / KT 2100

Ultra-high speed long-distance travel machining center with X-axis 2000 mm and 70m/min of rapid.



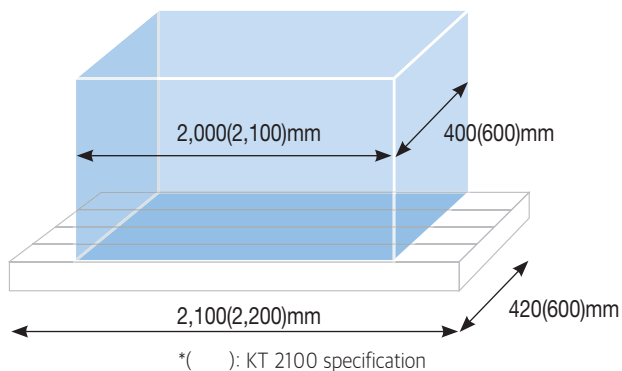
SPECIFICATIONS

KT 2000 (KT 2100)

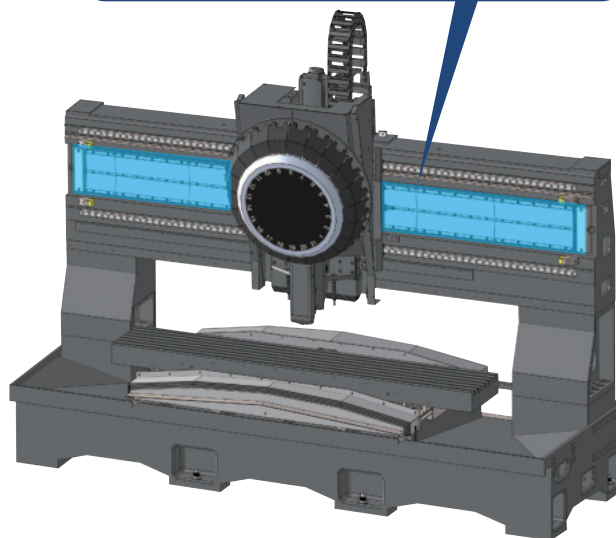
| | |
|----------------------------|---|
| X/Y/Z travels(mm) | 2,000/400/300 (2,100/600/350) |
| Spindle taper | ISO No.30 |
| Max. spindle speed(rpm) | 10,000 / High torque 10,000 (Opt.) 15,000 (Opt.) / 24,000 (Opt.) |
| Tool storage capacity(pcs) | 14 / 21 (Opt.) |
| Machine size(mm) | 4,152 x 2,905 (4,358 x 2,940) |

WIDE RANGE OF WORKING AREA

X-axis has secured rapid of 70 m/min as well as high reliability through linear motor, scale, and optimal cooling system, and can respond to various machining from high-speed/high-precision machining to heavy-duty machining within the work area.



L/M GUIDE + MAGNET + COOLING SYSTEM



VARIOUS SPINDLE SPEED



STD. **10,000** rpm

OTP. **10,000** rpm
(High Torque)

15,000 rpm

24,000 rpm

HIGH TORQUE SPECIFICATION (OPT.)

Max. torque **84.3** Nm

HIGH ACC. SPECIFICATION (OPT.)

0 rpm ↔ 10,000 rpm **0.19** sec

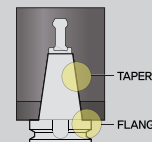
*1 MITSUBISHI NC SPEC.

The cutting oil inflow prevention design and ultra-precise bearing and high-tensile spring application provide high durability and precision during processing. In addition, a various spindle speed specifications can cope with a wide area of machining.

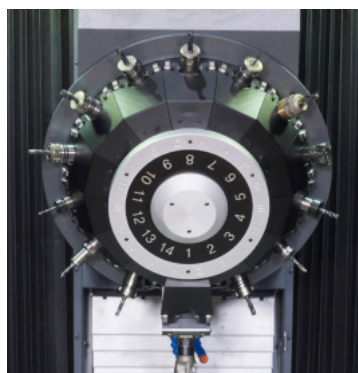
*CTS is available (OPT.)

BIG PLUS BBT (Opt.)

The 2-face locking tool system(Big plus) is available. It offers longer tool life, higher power and more precise machining by the dual contact both flange face and taper face.



TURRET TYPE TOOL CHANGER



Tool to Tool

0.96 sec

Chip to Chip

1.37 sec

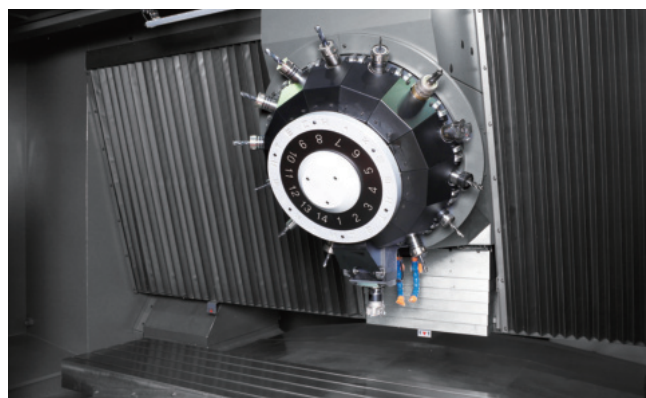
*1 MITSUBISHI HIGH ACC.
SPECIFICATION

The self-developed tool changer has secured high durability by the sealed structure of the drive unit, and the design optimized for high-speed rotation provides the best-in-class tool change speed.

*Tool storage capacity: 14 pcs [Opt: 21 pcs]

*1 Standard NC specification tool change time (T-T): 1.2 sec

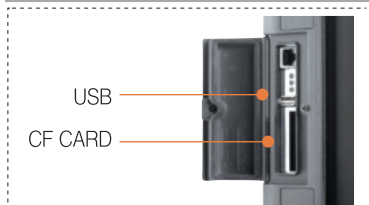
MULTI COVER



The X-axis travel area is covered by multi-cover to protect against chips generated during machining and it improves the durability and reliability of the X-axis travel area.

CONTROLLER

Convenient Data Expandability



USB driver and CF memory card interface are standard for expansion of memory, easy for file copy & save.

Administrator Edit Setting



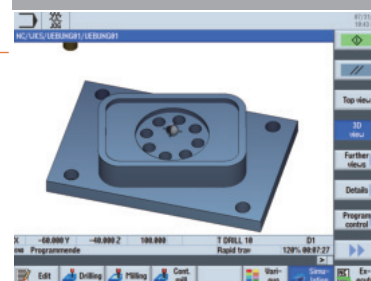
NC Control lock function is applied to prevent operation mistake and lock level setting is available upon operator's level.

Switch Panel



CL/UNCL, START, FEED HOLD, SINGLE BLOCK and EMERGENCY STOP buttons are separately configured on the SWITCH PANEL, ensuring ease of operation.

Simple Programming



G-Code, M-Code and interactive program input mode (Shop Mill) are available including user friendly function, copy, cut, paste, search etc.

User Friendly Centralized Control Panel



Rotary switch and On/Off buttons are added on each function for operator's convenience and common buttons are user friendly located for easy to operate and access.

External communication interface



220V outlet

RS232C ※1

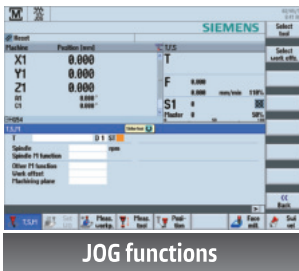
Ethernet port

Ethernet port, 220V outlet and 25-pin connector are installed for convenient external communication devices.

※1 RS232C is available with Mitsubishi M80 and Fanuc OiMF(OPT.)

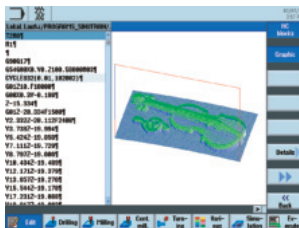
SIEMENS SINUMERIK 828D

Easy Operation



JOG functions

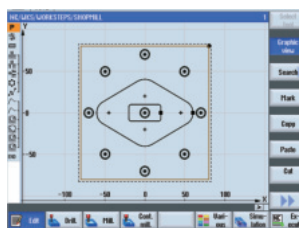
Tool, spindle, M Commands without coding on JOG mode, saves your time



Mold making Quick view

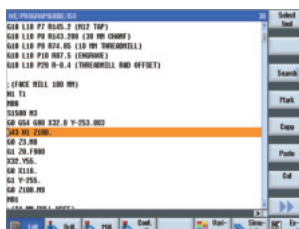
Quick and filtered view on mold & die details

Easy Programming



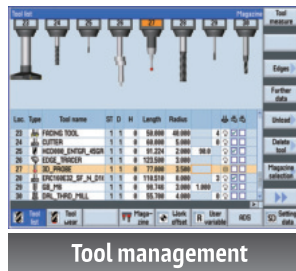
ShopMill

Interactive program input mode. Achieving shortest programming time.



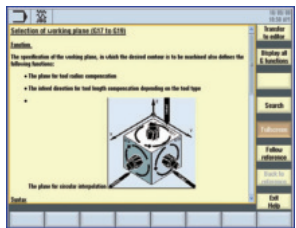
ISO Dialect interpreter

Maximum compatibility for operators familiar with ISO codes



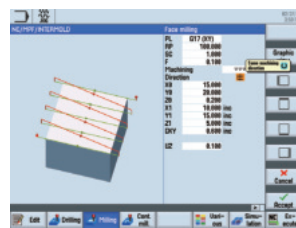
Tool management

Intuitive tool screen with icons. Tool life monitoring function is provided as a Standard.



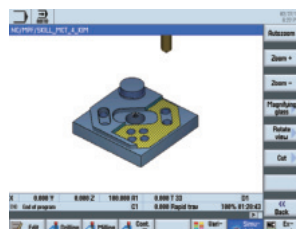
Online help

Powerful online help system including user-friendly graphics



Program GUIDE

Interactive Cycle provides convenient programming.

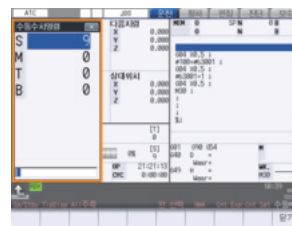


Simultaneous recording

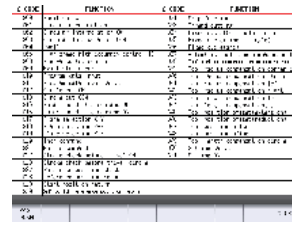
Program simulation test and Real time machining simulation are available.



Easy Programming



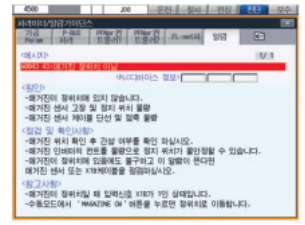
Manual M,S,T,B command
Easy command in manual mode.



Display all G/M code



Jig weight selection. According to the jig weight, setting with optimum acceleration & deceleration.

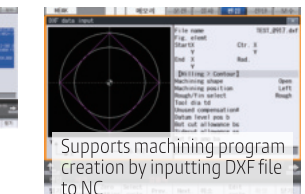


Alarm guidance function

Interactive Programming

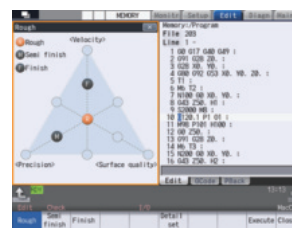


Easy machining program creation support.

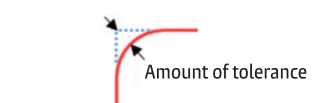


Supports machining program creation by inputting DXF file to NC

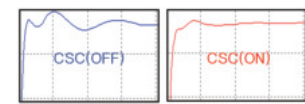
Support Machining



SELECTABLE MACHINING CONDITION



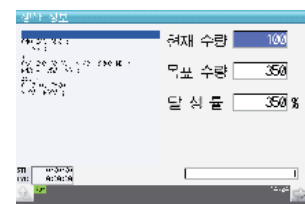
Amount of tolerance



Corner smooth control by applying tolerance control



Application of tolerance control by tool (Precision, Surface accuracy)



Production information display (Calculated based on M code)

CONTROLLER



Control axes : 3 axes(X,Y,Z) (+2 axes) Display: 10.4" Touch screen
 Simultaneously control axes : 4 axes Memory capacity:500 kbyte [Extesible]*1
 Minimum setting unit : 0.0001mm Program forma: G/M Code
 0.00001 inch [Interactive program]

- | | |
|-------------------------------------|-------------------------------------|
| * Absolute / Incremental | * Dry run |
| * Inch / Metric | * Feed hold |
| * Scailing / rotating | * Program stop |
| * Background editing | * Emergency stop |
| * Syncro tapping | * Tap return |
| * Block search | * Linear/circle interpolation |
| * Block skip | * Helical interpolation |
| * Subprogram call | * High speed/high precise control |
| * Coordinate system setting | * SSS 4G control |
| * Tool life management | * Tolerance control |
| * No. of tool correction(400 pairs) | * Thermal displacement compensation |
| * Tool diame. calibration | * Additional axis control[OPT] |
| * Real time trace | * Navi Mill[OPT] |
| * 2D program check | * Interactive cycle insert [OPT] |
| | * 3D program check [OPT] |

SIEMENS SINUMERIK 828D

Control axes : 3 axes(X,Y,Z) (+2 axes) Display: 10.4" COLOR LCD
 Simultaneously control axes : 4 axes Memory capacity: 5MB [Extesible]*2
 Minimum setting unit : 0.0001mm Program forma: G/M Code
 0.00001 inch [Interactive program]

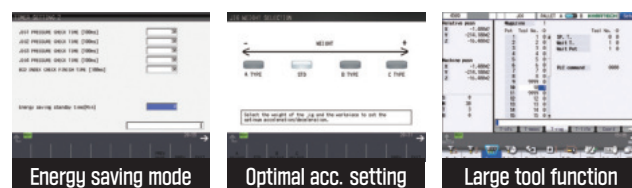
- | | |
|---------------------------------------|-------------------------------------|
| * Absolute / Incremental | * Dry run |
| * Inch / Metric | * Feed hold |
| * Scailing / rotating | * Program stop |
| * Background editing | * Emergency stop |
| * Syncro tapping | * Tap return |
| * Block search | * Linear/circle interpolation |
| * Block skip | * Helical interpolation |
| * Subprogram call | * High speed/high precise control |
| * Coordinate system setting | * Thermal displacement compensation |
| * Tool life management | * Top surface [OPT] |
| * Max.no of tools / cuttings(256/512) | * Additional axis control[OPT] |
| * Max. work offset(100) | * Shop Mill[OPT] |
| * Tool diame. calibration | * Network management[OPT] |
| * Program test | * 3D simulation[OPT] |
| * 2D simulation | |

FANUC Oi-MF PLUS

Control axes : 3 axes(X,Y,Z) (+2 axes) Display: 10.4" COLOR LCD
 Simultaneously control axes : 4 axes Memory capacity: 5MB[Extesible]*2
 Minimum setting unit : 0.0001mm Program forma: G/M Code
 0.00001 inch [Interactive program]

- | | |
|--------------------------------------|--------------------------------|
| * Absolute / Incremental | * Dry run |
| * Inch / Metric | * Feed hold |
| * Scailing / rotating | * Program stop |
| * Background editing | * Emergency stop |
| * Syncro tapping | * Tap return |
| * Block search | * Linear/circle interpolation |
| * Block skip | * Helical interpolation |
| * Subprogram call | * AICCI (200 BLK) |
| * Coordinate system setting | * Look a head 400 BLK[OPT] |
| * Tool life management | * Manual Guide I [OPT] |
| * No. of tool correction (400 pairs) | * Additional axis control[OPT] |
| * Tool dia. calibration | * Data server [OPT] |

EASY MAINTENANCE FUNCTIONS (Fanuc/Mitsubishi)



1. Optimal acceleration / deceleration setting

In case of table travel tapping center, it is available the optimized X/Y axis acceleration setting value by weight.

2. Large tool function (Twin arm tool changer only)

It keeps both pockets empty to prevent interference when a large tool is applied.

3. ATC arm speed control (Twin arm tool changer only)

The twin-arm type ATC ARM can be used by slowly adjusting the rotational speed in maintenance mode.

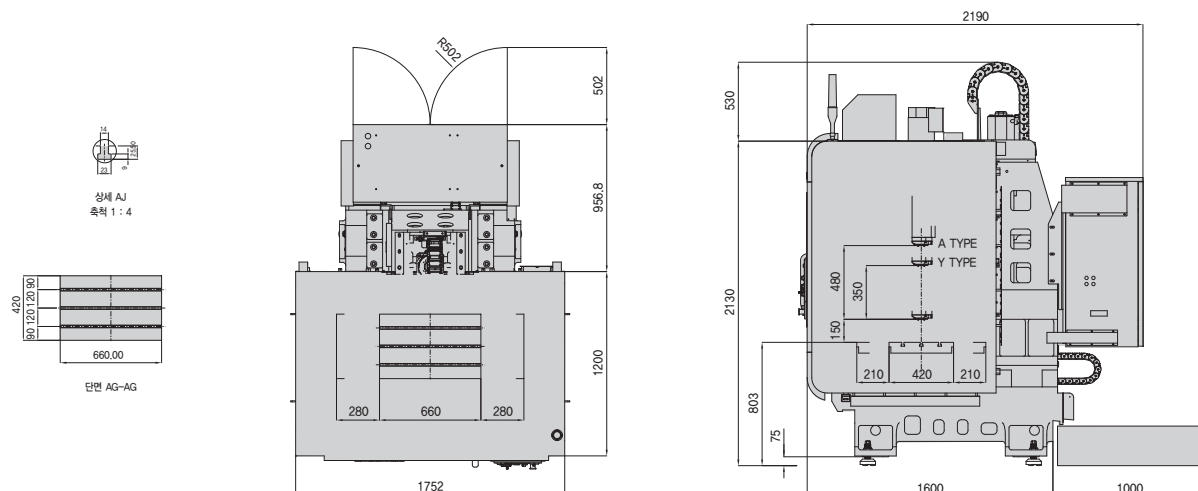
4. Energy-saving function

If machine does not operate for the time set by the user, all functions turned off to save electricity use.

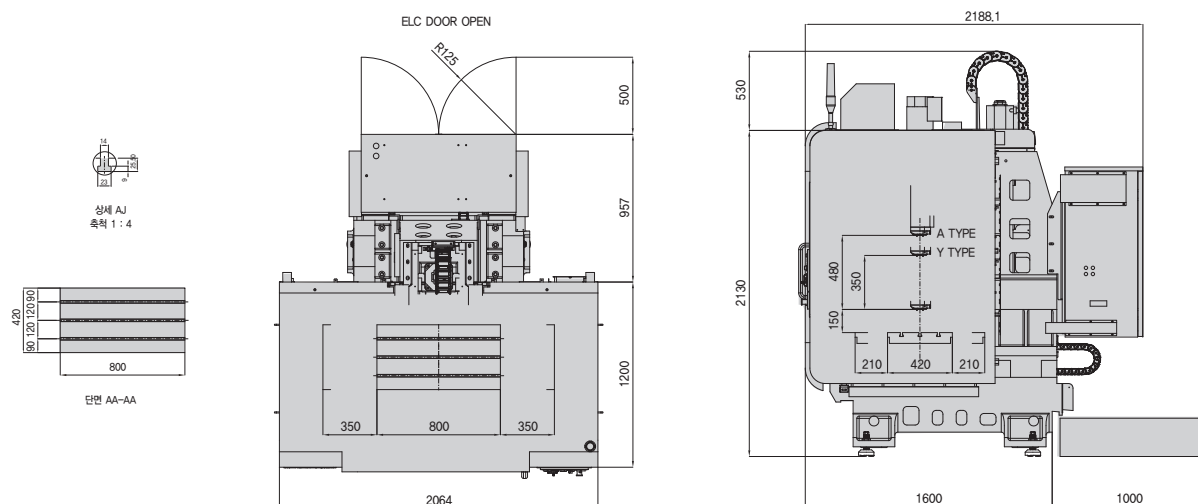
*1 Memory capacity can be extended up to 32GB with SD card.

*2 Memory capacity is extensible with USB and CF card.

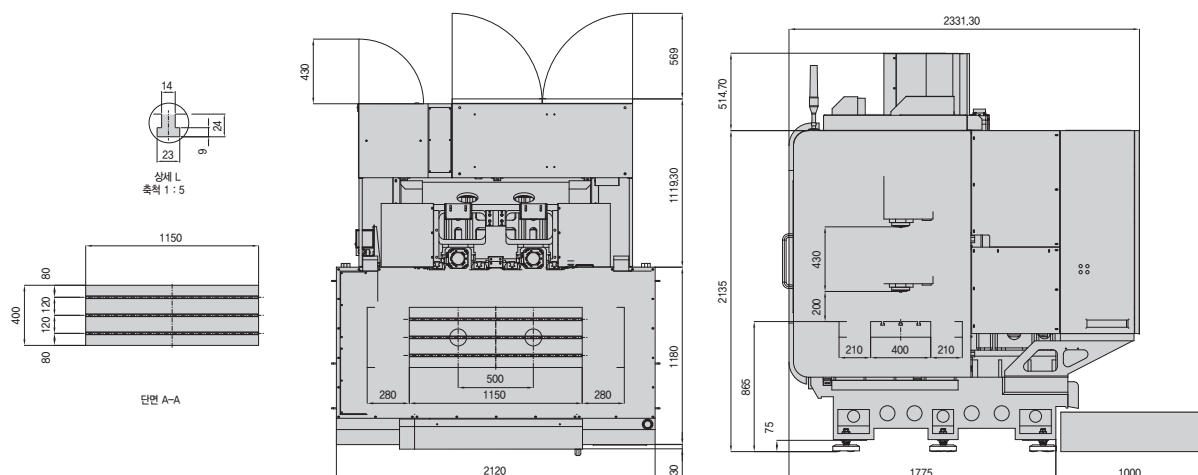
KT 420(A)



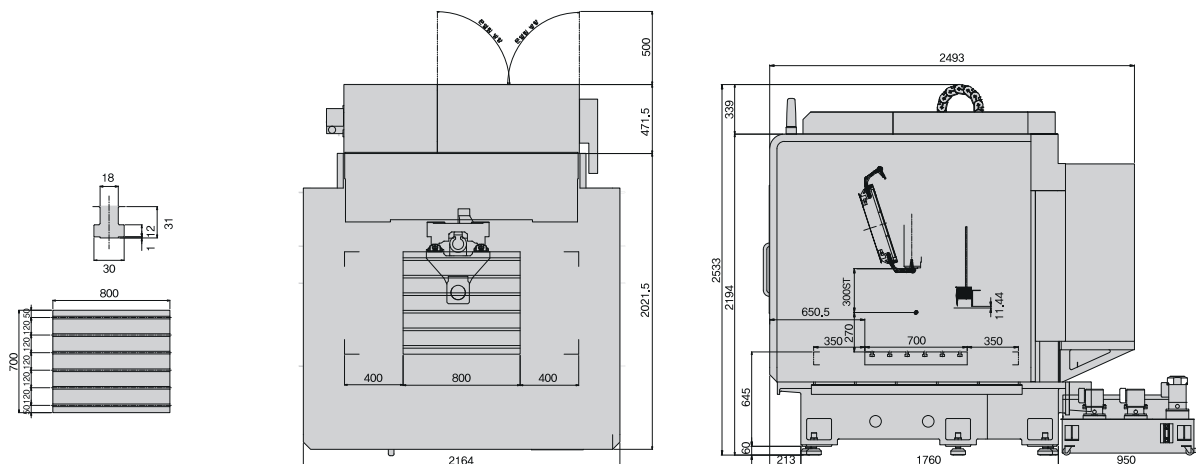
KT 420L(AL)



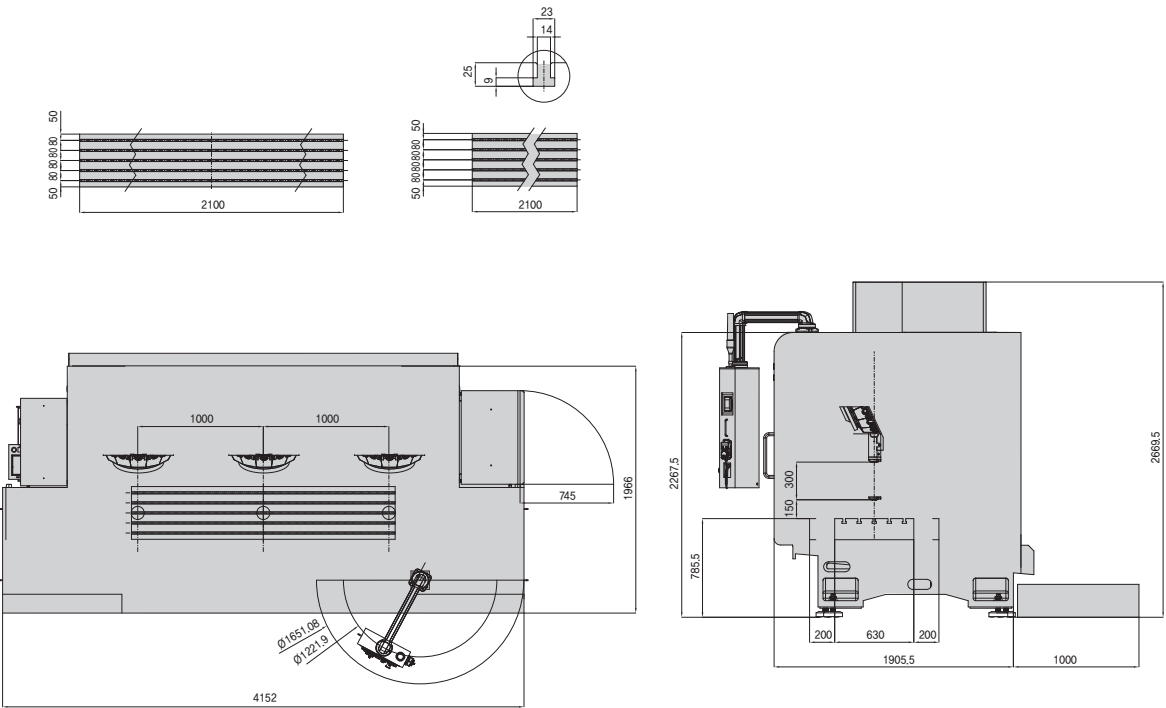
KT 420DH



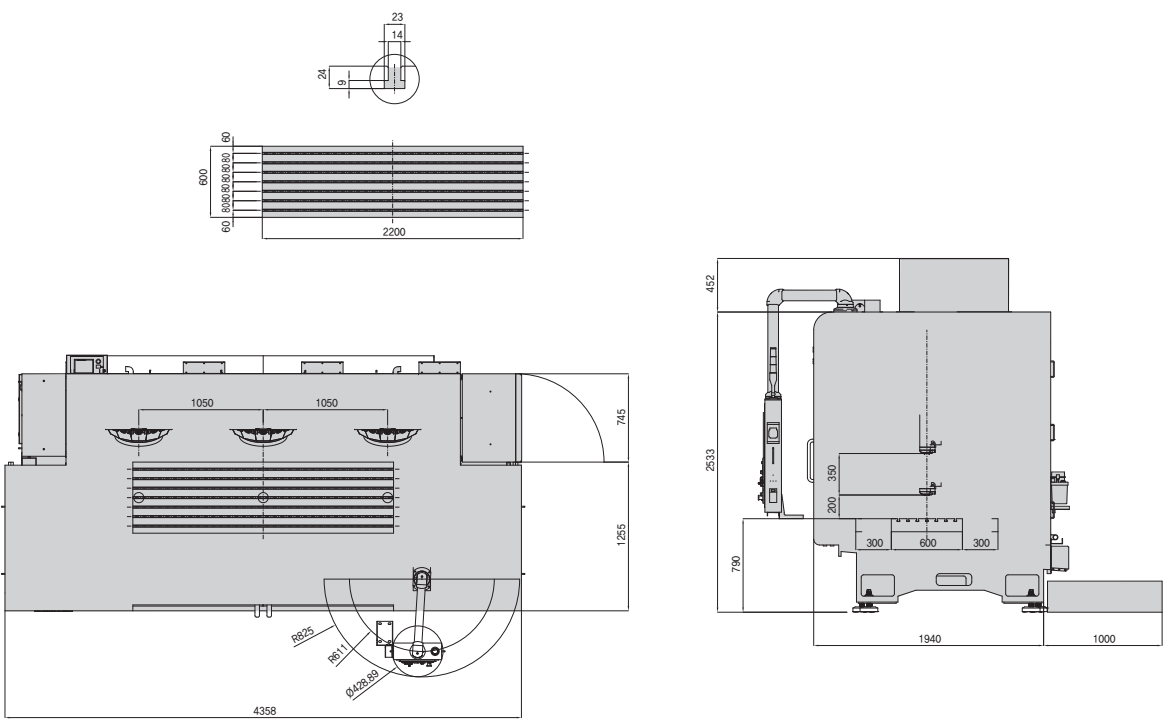
KT 360D



KT 2000

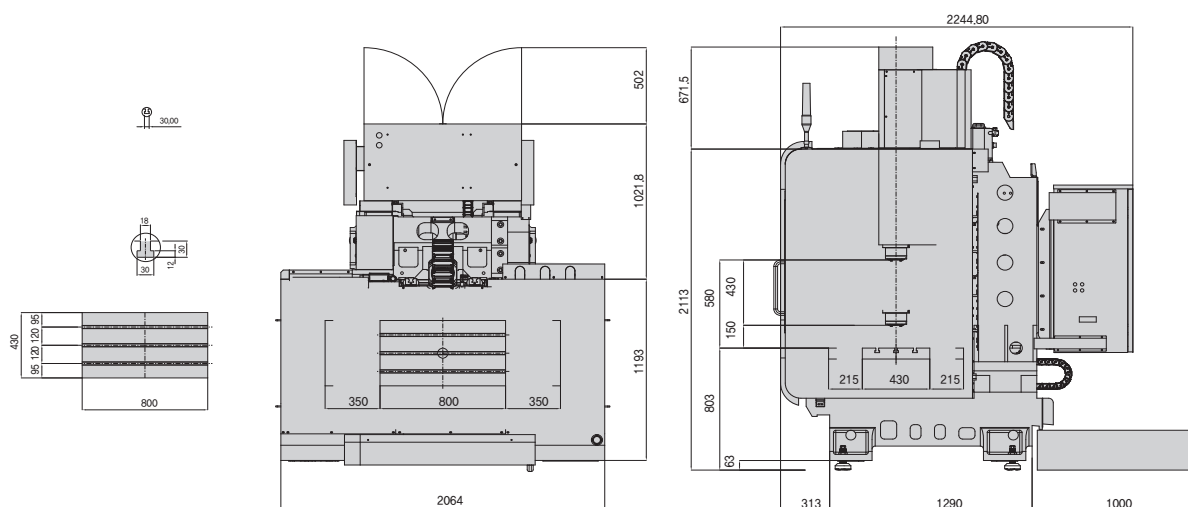


KT 2100

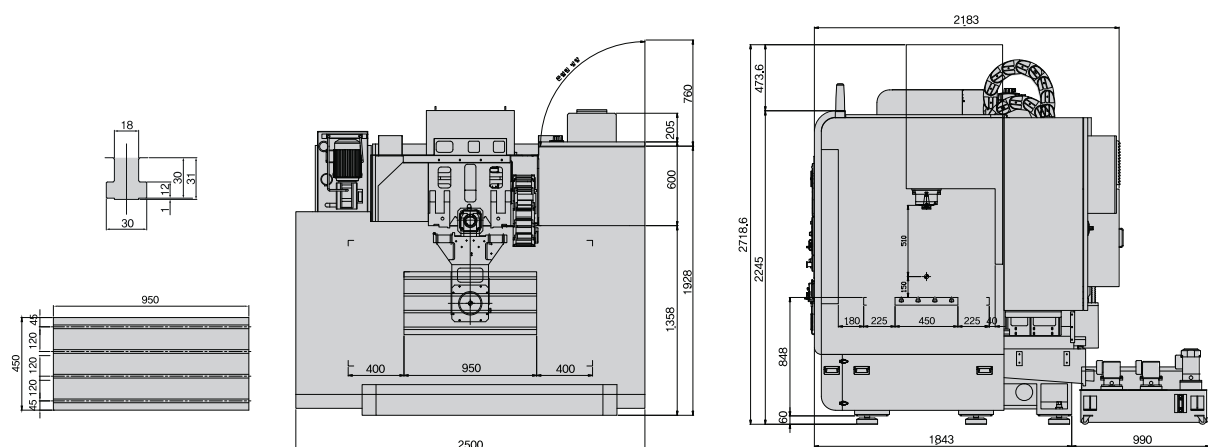


MACHINE DIMENSIONS

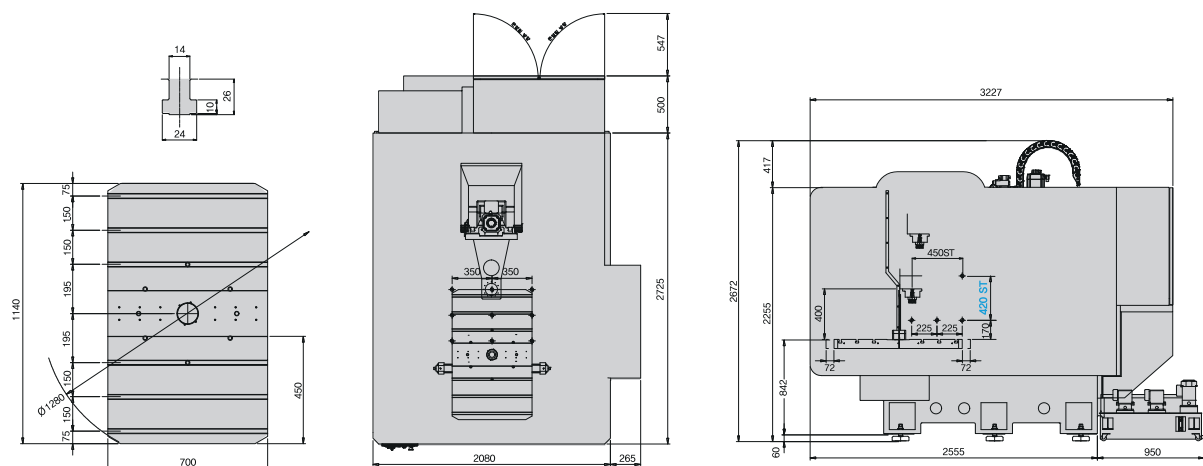
KM 430



KM 450



KM 450D



MACHINE SPECIFICATIONS

BT30 BT40

| ITEM | | | UNIT | KT 420 (420L) | KT 420A (420AL) |
|-------------------|---|----------|-------|---|-------------------------|
| Table | Size | | mm | 660(800) x 400 | |
| | Max.loading capacity | | kg | 250 [300]*6 | |
| Travel | X / Y / Z | | mm | 560(700)/420/350 | 560(700)/420/480 |
| | Distance between table top and spindle nose end | | mm | 150~500 | 150~630 |
| Spindle | Taper | | | ISO No.30 (7/24) | |
| | BIG-PLUS(BBT) | | | Optional | |
| | Max. speed | | rpm | 10,000 [high torque 10,000], [15,000], [24,000] | |
| | Spindle motor *1 | Max/Cont | kW | 10,000rpm: 11.0/3.7 [high torque 10,000rpm:15.0/5.5] [15,000rpm: 11.0/3.7], [24,000rpm: 15.0/2.2] | |
| Feed rate | X / Y / Z | | m/min | 60/60/60 (50/50/60) | |
| ATC | Tool shank | | | MAS403-BT30 | |
| | Pull stud | | | MAS403-P30T-1 | |
| | Tool storage capacity | | pcs | 14 [21] [28] | 20 [26] |
| | Max. diameter | | mm | 100 | 80 [64] |
| | Max. length | | mm | 200 | |
| | Max. weight | | kg | 3.0 | |
| | Tool selection method | | | Turret (Fixed address) | Twin arm(Random memory) |
| | Tool change time *2 | T-T | sec | 0.96 | 1.2 |
| | | C-C | | 1.37 | 1.8 |
| Power source*8 | Power supply | | | AC220V[380V]±10%, 50/60Hz±1Hz | |
| | Power capacity(Continuous) | | kVA | 15.4 | 17.5 |
| Machine dimension | Size *3 | W x L | mm | 1,752 (2,064) x 2,600 | |
| | Height | | mm | 2,660 | |
| | Weight | | kg | 2,300 (2,666) | 2,500 (2,800) |
| CNC | Model | | | Mitsubishi M80 [Siemens 828D], [Fanuc OiMF plus] | |
| | Program format | | | G/M code [Interactive program] | |
| | Display | | inch | 10.4" COLOR LCD | |

| ITEM | | | UNIT | KT 420DH | KM 450DH |
|-------------------|---|----------|-------|--|--|
| Table | Size | | mm | 1,150 x 400 | 1,150 x 450 |
| | Max.loading capacity | | kg | 400 | 400 |
| Travel | X / Y / Z (U / V)*4 | | mm | 560 / 420 / 430 / (±2/±2) | 560 / 450 / 430 / (±2/±2) |
| | Distance between table top and spindle nose end | | mm | 200~630 | 180~610 |
| Spindle | Taper | | | ISO No.30 (7/24) | ISO No.40 (7/24) |
| | BIG-PLUS(BBT) | | | Optional | |
| | Distance between spindles | | mm | 500 | |
| | Max. speed | | rpm | 10,000 [[high torque 10,000], [15,000], [24,000] | 8,000 [12,000] |
| | Spindle motor *1 | Max/Cont | kW | 10,000rpm: 11.0/3.7 [high torque10,000rpm:15.0/5.5] [15,000rpm: 11.0/3.7], [24,000rpm: 15.0/2.2] | 8,000rpm: 18.0/7.5 [12,000rpm: 18.0/7.5] |
| Feed rate | X / Y / Z | | m/min | 48/48/48 | 42/42/42 |
| ATC | Tool shank | | | MAS403-BT30 | MAS403-BT40 |
| | Pull stud | | | MAS403-P30T-1 | PS-805 |
| | Tool storage capacity | | pcs | 20x2 [26x2] | 20 x 2 |
| | Max. diameter | | mm | 80 [64] | 80 |
| | Max. length | | mm | 200 | 300 |
| | Max. weight | | kg | 3.0 | 7.0 |
| | Tool selection method | | | Twin arm (Random memory) | |
| | Tool change time | T-T | sec | 1.2 | 1.7 |
| | | C-C | | 1.8 | 2.3 |
| Power source | Power supply | | | AC220V[380V]±10%, 50/60Hz±1Hz | |
| | Power capacity(Continuous) | | kVA | 41.5(47.6)*7 | 44.2(50.3)*7 |
| Machine dimension | Size *3 | W x L | mm | 2,120 x 2,775 | 2,500 x 2,835 |
| | Height | | mm | 2,650 | 2,877 |
| | Weight | | kg | 5,500 | 7,000 |
| CNC | Model | | | Mitsubishi M80 [Siemens 828D], [Fanuc OiMF plus] | |
| | Program format | | | G/M code [Interactive program] | |
| | Display | | inch | 10.4" COLOR LCD | |

*1 Mitsubishi CNC specification. Siemens and Fanuc specifications can be found at each sales office if necessary.

*2 Mitsubishi high acc. specification. Tool change time for std. specification(T-T) 1.2 sec. / KT 420(L): Siemens 1.08s, Mitsubishi: 1.07s

MACHINE SPECIFICATIONS

BT30 BT40

| ITEM | | | UNIT | KT 500 | KT 700 |
|-------------------|---|----------|-------|--|---------------|
| Table | Size | | mm | 1,100 x 500 | 800 x 700 |
| | Max.loading capacity | | kg | 400 | 400 |
| Travel | X / Y / Z | | mm | 1,000/500/300 | 800/700/300 |
| | Distance between table top and spindle nose end | | mm | 170~470 | 270~570 |
| Spindle | Taper | | | ISO No.30 (7/24) | |
| | BIG-PLUS(BBT) | | | Optional | |
| | Max. speed | | rpm | 10,000 [high torque 10,000], [15,000], [24,000] | |
| | Spindle motor *1 | Max/Cont | kW | 10,000rpm: 11.0/3.7 [high torque 10,000rpm:15.0/5.5], [15,000rpm: 11.0/3.7], [24,000rpm: 15.0/2.2] | |
| Feed rate | X / Y / Z | | m/min | 50/50/50 | 48/48/60 |
| ATC | Tool shank | | | MAS403-BT30 | |
| | Pull stud | | | MAS403-P30T-1 | |
| | Tool storage capacity | | pcs | 14 [21] [28] | |
| | Max. diameter | | mm | 100 | |
| | Max. length | | mm | 200 | |
| | Max. weight | | kg | 3.0 | |
| | Tool selection method | | | Turret (Fixed address) | |
| | Tool change time *2 | T-T | sec | 1.03 | |
| | | C-C | | 1.37 | |
| Power source | Power supply | | | AC220V[380V]±10%, 50/60Hz±1Hz | |
| | Power capacity(Continuous) | | kVA | 18.5 | 20.8 |
| Machine dimension | Size *3 | W x L | mm | 2,548 x 2,753 | 2,164 x 2,923 |
| | Height | | mm | 2,600 | 2,533 |
| | Weight | | kg | 4,300 | 6,000 |
| CNC | Model | | | Mitsubishi M80 [Siemens 828D], [Fanuc OiMF plus] | |
| | Program format | | | G/M code [Interactive program] | |
| | Display | | inch | 10.4" COLOR LCD | |

| ITEM | | | UNIT | KT 360D | KM 450D |
|-------------------|----------------------------|----------|-------|--|--|
| Table | Size (One face) | | mm | 650 x 360 | 700 x 450 |
| | Max.loading capacity | | kg | 200 (One face) | |
| | Pallet change time | | sec | 4.5 | |
| Travel | X / Y / Z | | mm | 520 / 360 / 300 | 700 / 450 / 480[420]*5 |
| | 테이블 상면에서 주축 끝단까지 거리 | | mm | 200~500 | 170~650 [170~590]*5 |
| Spindle | Taper | | | ISO No.30 (7/24) | |
| | BIG-PLUS(BBT) | | | Optional | |
| | Max. speed | | rpm | 10,000 [high torque 10,000], [15,000], [24,000] | 8,000 [12,000] |
| | Spindle motor *1 | Max/Cont | kW | 10,000rpm: 11.0/3.7 [high torque 10,000rpm:15.0/5.5] [15,000rpm: 11.0/3.7], [24,000rpm: 15.0/2.2] | 8,000rpm: 18.0/7.5 [12,000rpm: 18.0/7.5] |
| Feed rate | X / Y / Z | | m/min | 48/48/60 | 42/42/42 |
| ATC | Tool shank | | | MAS403-BT30 | MAS403-BT40 |
| | Pull stud | | | MAS403-P30T-1 | PS-805 |
| | Tool storage capacity | | pcs | 14 [21] | 24 [30] |
| | Max. diameter | | mm | 100 | 80 |
| | Max. length | | mm | 200 | 300 |
| | Max. weight | | kg | 3.0 | 7.0 |
| | Tool selection method | | | Turret (Fixed address) | Twin arm (Random memory) |
| | Tool change time *2 | T-T | sec | 0.96 | 1.7 |
| | | C-C | | 1.37 | 2.3 |
| Power source | Power supply | | | AC220V[380V]±10%, 50/60Hz±1Hz | |
| | Power capacity(Continuous) | | kVA | 23.3 | 31.3 |
| Machine dimension | Size *3 | W x L | mm | 1,760[2,060] x 3,200 | 2,345 x 3,505 |
| | Height | | mm | 2,715 | 2,672 |
| | Weight | | kg | 4,500 | 7,500 |
| CNC | Model | | | Mitsubishi M80 [Siemens 828D], [Fanuc OiMF plus] | |
| | Program format | | | G/M code [Interactive program] | |
| | Display | | inch | 10.4" COLOR LCD | |

*3. Dimensions include tank. *4. U-axis and V-axis are available additionally. (Optional) *5. 30T magazine specification

*6. Parameter adjustment is required by weight *7. Power capacity when U-axis and V-axis are applied.

MACHINE SPECIFICATIONS

BT30 BT40

| ITEM | | | UNIT | KM430 | KM 450 | KM 500 |
|-------------------|---|----------|-------|--|---------------|---------------|
| Table | Size | | mm | 800 x 430 | 950 x 450 | 1,100 x 510 |
| | Max.loading capacity | | kg | 300 | 400 | 800 |
| Travel | X / Y / Z | | mm | 700/430/430 | 800/450/510 | 1,000/500/520 |
| | Distance between table top and spindle nose end | | mm | 150~580 | 150~660 | 150~670 |
| Spindle | Taper | | | ISO No.40 (7/24) | | |
| | BIG-PLUS(BBT) | | | Optional | | |
| | Max. speed | | rpm | 8,000 [12,000] | | |
| | Spindle motor *1 | Max/Cont | kW | 8,000rpm: 18.5/9.0 [12,000rpm: 18.5/9.0] 8,000rpm: 25.0/11.0 [12,000rpm: 25.0/11.0] | | |
| Feed rate | X / Y / Z | | m/min | 48/48/48 | 36/36/36 | 36/36/30 |
| ATC | Tool shank | | | MAS403-BT40 | | |
| | Pull stud | | | PS-805 | | |
| | Tool storage capacity | | pcs | 20 [24] | 24 [30] | |
| | Max. diameter | | mm | 80 | | |
| | Max. length | | mm | 300 | | |
| | Max. weight | | kg | 7.0 | | |
| | Tool selection method | | | Twin arm (Random memory) | | |
| | Tool change time *2 | T-T | sec | 1.4 | 1.5 | 1.7 |
| C-C | | 2.5 | | 2.9 | 3.4 | |
| Power source | Power supply | | | AC220V[380V]±10%, 50/60Hz±1Hz | | |
| | Power capacity(Continuous) | | kVA | 2,784 | 35.1 | 35.1 |
| Machine dimension | Size *3 | W x L | mm | 2,064 x 2603 | 2,500 x 2,833 | 2,692 x 2,886 |
| | Height | | mm | 2,784 | 2,718 | 2,931 |
| | Weight | | kg | 3,600 | 5,000 | 6,000 |
| CNC | Model | | | Mitsubishi M80 [Siemens 828D], [Fanuc OiMF plus] | | |
| | Program format | | | G/M code [Interactive program] | | |
| | Display | | inch | 10.4" COLOR LCD | | |

| ITEM | | | UNIT | KT 2000 | KT 2100 | KM 500H |
|-------------------|--|----------|-------|--|---------------|---|
| Table | Size | | mm | 2,100 x 420 | 2,200 x 600 | 500 x 500 |
| | Max.loading capacity | | kg | 1,000 | | 600 |
| Travel | X / Y / Z | | mm | 2,000/400/300 | 2,100/600/350 | 600/500/500 |
| | Distance between table top and spindle nose end | | mm | 150~450 | 200~550 | - |
| | Distance between table top and spindle center | | mm | - | - | 100~600 |
| | Distance between table center and spindle nose end | | mm | - | - | 149~649 |
| Spindle | Taper | | | ISO No.30 (7/24) | | ISO No.40 (7/24) |
| | BIG-PLUS(BBT) | | | Optional | | Optional |
| | Max. speed | | rpm | 10,000 [high torque 10,000], [15,000], [24,000] | | 8,000 [12,000] |
| | Spindle motor *1 | Max/Cont | kW | 10,000rpm: 11.0/3.7 [high torque 10,000rpm:15.0/5.5] [15,000rpm: 11.0/3.7], [24,000rpm: 15.0/2.2] | | 8,000rpm: 25.0/11.0 [12,000rpm: 25.0/11.0] |
| Feed rate | X / Y / Z | | m/min | 70/48/48 | | 36/36/36 |
| | Tool shank | | | MAS403-BT30 | | MAS403-BT40 |
| ATC | Pull stud | | | MAS403-P30T-1 | | PS-805 |
| | Tool storage capacity | | pcs | 14 [21] | | 60 |
| | Max. dia. / length | | mm | 100 / 200 | | 80 / 300 |
| | Max. weight | | kg | 3.0 | | 7.0 |
| | Tool selection method | | | Turret (Fixed address) | | Twin arm (Random memory) |
| | Tool change time *2 | T-T | sec | 1.03 | | - |
| | | C-C | | 1.37 | | - |
| Power source | Power supply | | | AC220V[380V]±10%, 50/60Hz±1Hz | | |
| | Power capacity(Continuous) | | kVA | 40.4 | | 38.3 |
| Machine dimension | Size *3 | W x L | mm | 4,152x2,905 | 4,358x2,940 | 3,259x3,870 |
| | Height | | mm | 2,669 | 2,985 | 2,430 |
| | Weight | | kg | 8,500 | 10,000 | 9,000 |
| CNC | Model | | | Mitsubishi M80 [Siemens 828D], [Fanuc OiMF plus] | | |
| | Program format | | | G/M code [Interactive program] | | |
| | Display | | inch | 10.4" COLOR LCD | | |

*1 Mitsubishi CNC specification. Siemens and Fanuc specifications can be found at each sales office if necessary.

*2 Mitsubishi high acc. specification. Tool change time for std. specification(T-T): 1.2 sec

*3. Dimensions include tank.

STD & OPT SPECIFICATIONS

BT30 BT40

| | | 420(L) | 420A(AL) | 420DH | 360D | 500 | 700 | 2000 | 2100 | 430 | 450 | 450D | 450DH | 500 | 500H |
|-------------------------------------|------------------|--------|----------|-------|------|-----|-----|------|------|-----|-----|------|-------|-----|------|
| Basic machine component | | | | | | | | | | | | | | | |
| Splash guard | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Coolant tank | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Work light | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Indicator light | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Leveling bolt and Nut | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Instruction manual | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Fixed MPG handle | | ● | ● | ● | X | ● | ● | ● | ● | ● | ● | X | ● | ● | ● |
| Portable MPG handle | | ○ | ○ | ● | ● | ● | ● | ● | ● | ○ | ○ | ● | ● | ● | ● |
| Jig interperance prevention | | | | | | | | | | | | | | | |
| High column | 150mm | ○ | ○ | ○ | X | ○ | ○ | X | X | ○ | ○ | X | ○ | ○ | X |
| | 250mm | ○ | ○ | ○ | X | ○ | ○ | X | X | ○ | ○ | X | ○ | ○ | X |
| Deep hole and roughness improvement | | | | | | | | | | | | | | | |
| Coolant through spindle | 20bar | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 30bar | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 70bar | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Cleaning device | | | | | | | | | | | | | | | |
| Bed Shower | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Taper washing system | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Coolant gun / Air gun | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Chip disposal | | | | | | | | | | | | | | | |
| Chip conveyor | Scraper Type | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | Hinge Type | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | Drum Filter Type | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Chip bucket | Fixed Type | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | Swing Type | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Automation | | | | | | | | | | | | | | | |
| Auto door | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Gantry loader interface | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Robot interface | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Auto power off | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Working environment | | | | | | | | | | | | | | | |
| Oil mist cleaner | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Oil Skimmer | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Minimum Quantity Lubircation | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Air conditioner in main box | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Top cover | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Jig interface | | | | | | | | | | | | | | | |
| Rotary table | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Additional axis control | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Hydraulic Jig interface | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Pneumatic Jig interface | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Air confirm | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Air blow | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Measurement | | | | | | | | | | | | | | | |
| Tool length measurement device | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Broken tool detector | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Workpiece measurement device | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Tool monitoring system | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Assist device | | | | | | | | | | | | | | | |
| Spindle cooler | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Transformer | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Hydraulic unit | | ○ | ● | ● | ● | ○ | ○ | ○ | ○ | ● | ● | ● | ● | ● | ● |
| Software | | | | | | | | | | | | | | | |
| Heat expansion compensation | | ● | ● | ● | X | ● | X | X | X | ● | ● | X | ● | ● | X |
| Tool counter | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Work counter | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Tool life management | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Memory expansion | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Interactive program | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Safety device | | | | | | | | | | | | | | | |
| Interlock | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Door lock | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |

●: STD ○: OPT X: Not available

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