

# KF-B Series

HYUNDAI WIA Vertical Machining Center

# KF-B SERIES

## The Fastest, the Most Versatile High end Linear Machining Center

The Vertical Machining Center KF-B Series, designed by Hyundai WIA with years of expertise and the latest technology, maximizes productivity while maintaining rigidity and accuracy.

| ITEM       | Spindle         |                  |               |                    |      |      | Y Axis Stroke     |                   |                 |
|------------|-----------------|------------------|---------------|--------------------|------|------|-------------------|-------------------|-----------------|
|            | Driect<br>8,000 | Driect<br>12,000 | Gear<br>8,000 | Built-in<br>12,000 | BT40 | BT50 | 570 mm<br>(22.4") | 670 mm<br>(26.4") | 760 mm<br>(30") |
| KF5700B    | ●               | ○                |               |                    | ●    |      | ●                 |                   |                 |
| KF5700B/50 | ●               |                  | ○             |                    |      | ●    | ●                 |                   |                 |
| KF6700B    | ●               | ○                |               |                    | ●    |      |                   | ●                 |                 |
| KF6700B/50 | ●               |                  | ○             |                    |      | ●    |                   | ●                 |                 |
| KF7700B    | ●               | ○                |               |                    | ●    |      |                   |                   | ●               |
| KF7700B/50 | ●               |                  | ○             |                    |      | ●    |                   |                   | ●               |
| KF760BM    |                 |                  |               | ●                  |      | ●    |                   |                   | ●               |

● : Standard ○ : Option





**KF-B Series**  
VERTICAL MACHINING CENTER

02  
+  
03

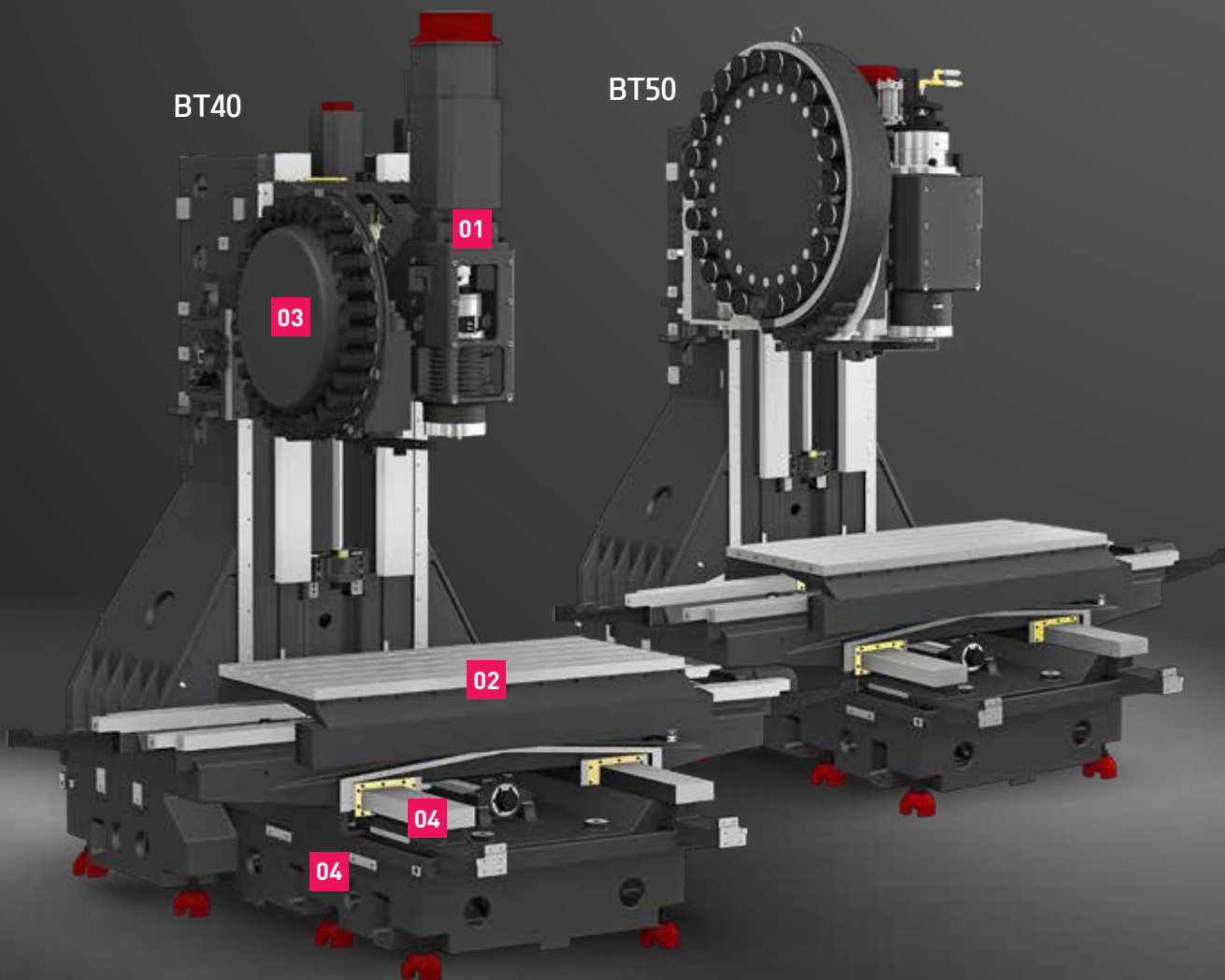
**Experience**  
**The New Technology**

# 01

KF-B Series

## KF5700B/6700B/7700B

Excellent Heavy Duty Cutting Capability & Productivity  
Vertical Machining Center



KF5700B Travel

**1,100/570/520** mm (43.3"/22.4"/20.5")  
Travel (X/Y/Z)

KF7700B Travel

**1,500/760/635** mm (59"/30"/25")  
Travel (X/Y/Z)

KF6700B Travel

**1,300/670/635** mm (51.1"/26.4"/25")  
Travel (X/Y/Z)

KF5700/6700/7700B Rapid Traverse Rate

**30/30/24** m/min (1,181/1,181/945 ipm)  
Rapid Traverse Rate (X/Y/Z)

# Basic Features

01

## Direct Driven Spindle

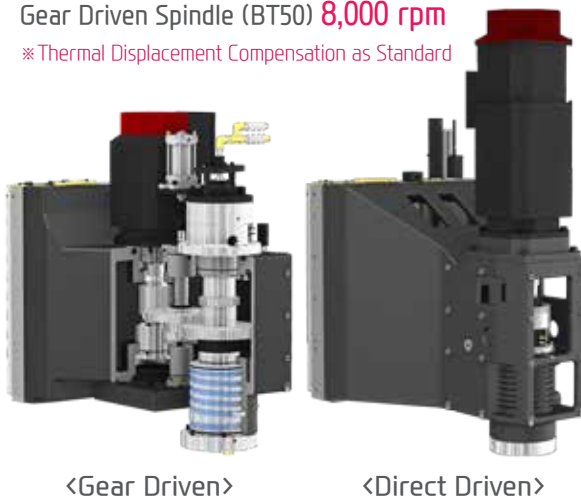
The motors and spindles are directly connected, thus shortening the spindle's acc./deceleration time. To achieve higher speed of the spindle, the design involves super-precision, hi-speed angular ball bearings, enabling an increased machining capability.

## Gear Driven Spindle **OPTION**

The KF-B Series can be fitted with a gear-type spindle shift as an optional feature so ensure a shift to stable rotation at high speed from strong torque at low speed, thus offering a wider range of machining.

Direct Driven Spindle (BT40, BT50)  
**8,000 / 12,000 rpm**

Gear Driven Spindle (BT50) **8,000 rpm**  
※ Thermal Displacement Compensation as Standard



02

## Table

Compared to competitive machines, the KF-B series has a large working capacity to make setup easier and provide convenience to the operator.

| Model         | KF5700B                       | KF6700B                     | KF7700B                   |
|---------------|-------------------------------|-----------------------------|---------------------------|
| Size          | 1,300×570 mm<br>(51.2"×22.4") | 1,500×670 mm<br>(59"×26.4") | 1,650×760 mm<br>(65"×30") |
| Load Capacity | 1,000 kg<br>(2,205 lb)        | 1,300 kg<br>(2,866 lb)      | 1,500 kg<br>(3,307 lb)    |

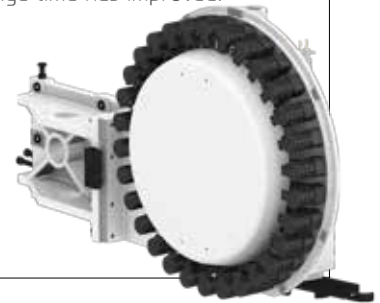


03

## ATC & Magazine

The tool magazine holds 30 tools as standard and 40 tools(BT50 : Std. 24EA, Opt. 30EA) as an option. Due to the wider selection of tools and the random tool selection method, tool change time has improved.

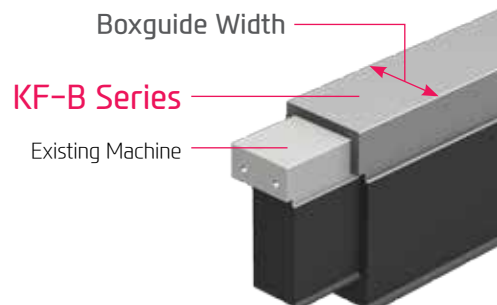
● Tool Change Time (C-C) :  
**3.5 sec**



## 04 All Axis Large Boxguide way

Capability of heavy-duty cutting and vibration absorption is enhanced drastically due to expanded box guide.

| Division         | X Axis Width | Y Axis Width | Z Axis Width |
|------------------|--------------|--------------|--------------|
| KF6700B          | 100mm (3.9") | 160mm (6.3") | 125mm (4.9") |
| Existing Machine | 100mm (3.9") | 100mm (3.9") | 100mm (3.9") |



**02**  
KF-B Series

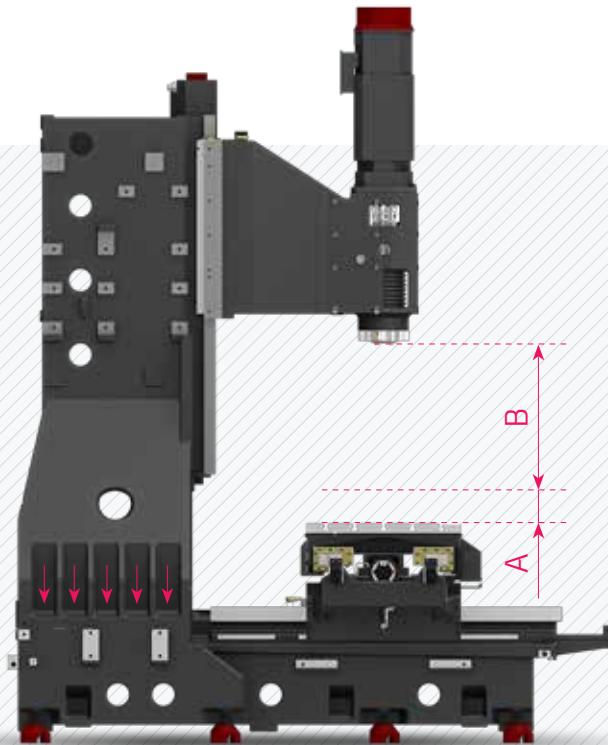
## Slideway

Heavy Duty Cutting by High-Rigid & Accurate Mechanism



# BOX GUIDEWAY

The KF-B Series are equipped with box guideways to enable distributing its feeding force evenly to each slideway. It boasts excellent rigidity, a stable feed structure, and an increased box guide slideway, thus providing an excellent heavy-duty cutting performance.



KF5700B (A~B)

**150~670** mm (5.9"~26.4")  
Distance from Table Top to SP. Nose

KF5700B/50 (A~B)

**200~720** mm (7.9"~28.3")  
Distance from Table Top to SP. Nose

KF6700B | KF7700B (A~B)

**150~785** mm (5.9"~30.9")  
Distance from Table Top to SP. Nose

KF6700B/50 | KF7700B/50 (A~B)

**200~835** mm (7.9"~32.9")  
Distance from Table Top to SP. Nose

### One Piece High Column Structure

Additional 300mm(11.8") extension can be applied on the KF-B Series as an option.

### High-Rigidity Design for Column & Bed

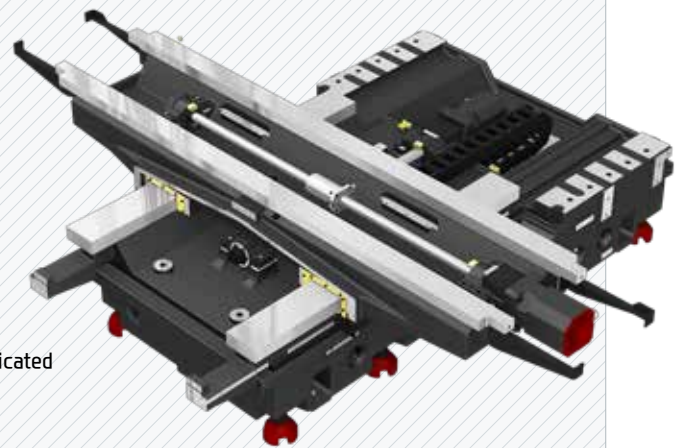
The stable design of column assembly surface on bed top enables securing the fundamental rigidity of the structure. (Full scrapping of assembly area : 10 fixing bolts)



3 Row bearing + Oil Lubricated  
**Rigidity 147% UP**  
compared to previous model

### Double anchored ball screw

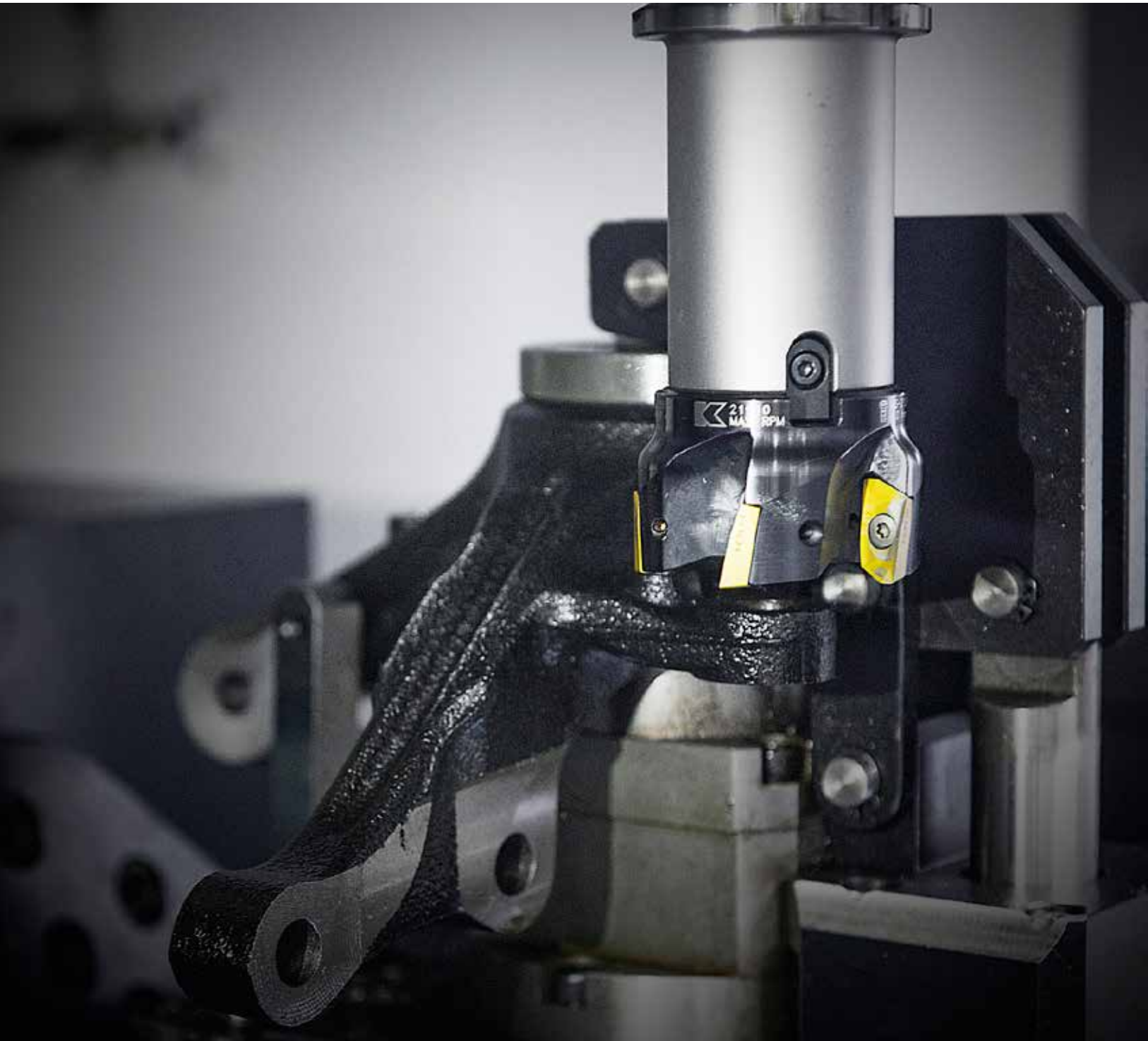
The pretensioned ball screw minimizes the expansion and contraction according to the heat and further reinforces the rigidity by the double anchor support method. In addition, the coupling of the ballscrews and the highly reliable digital servo motors are connected by **metal plate couplings**, to reduce coupling breakage and backlash.



**n3**  
KF-B Series

# Direct Driven Spindle

Long Lasting High Accuracy & Excellent Performance





# Spindle



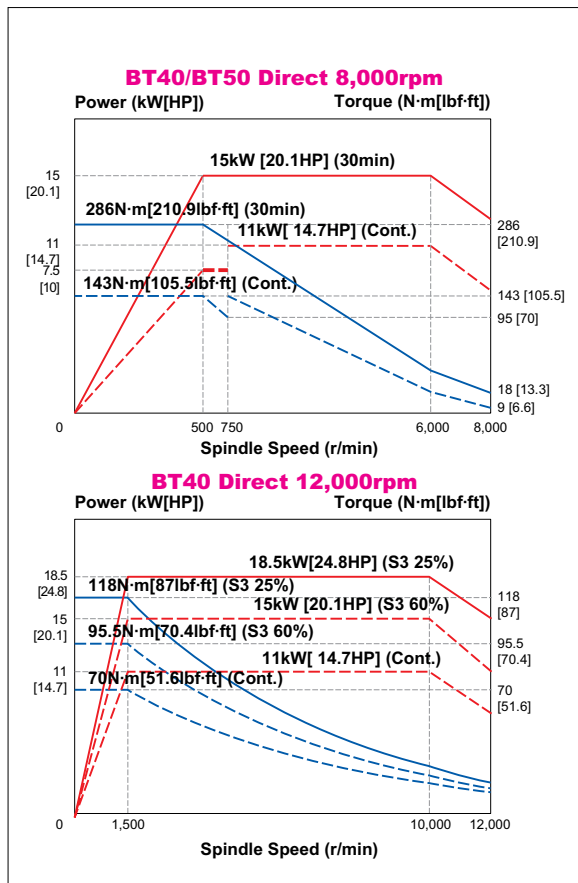
## High-Performance, Direct Driven Spindle

The directly coupled spindle at a maximum revolution of 12,000rpm, allows high-speed processing. Additionally, the large diameter and the thickness of the spindle add to the stability of the machine.

### Through Spindle Coolant **OPTION**

Through Spindle Coolant is exceedingly useful when drilling deep holes. It helps increase the lifetime of the tool, while decreasing cycle time.

**20 bar / 30 bar / 70 bar**  
**(290 psi / 435 psi / 1,015 psi)**



### Dual Contact Spindle

The Big Plus spindle system provides dual contact between the spindle face and the flange face of the tool holder. This greatly increases tool rigidity, reduces run out and adds significant productivity to machining applications.

### Spindle Cooling

The spindle cooling system minimizes thermal displacement which can happen during lengthy machining operations, and offers continued accuracy based on the thermal stability.

<External cooling via head frame enhances chilling ability>

8,000rpm

**15/11** kW (20.1/14.7 HP)  
Spindle Output

**286/143** N·m (210.9/105.5 lbf·ft)  
Spindle Torque

12,000rpm

**18.5/11** kW (24.8/14.7 HP)  
Spindle Output

**118/70** N·m (87/51.6 lbf·ft)  
Spindle Torque

**n4**  
KF-B Series

# Gear Driven Spindle

Long Lasting High Accuracy & Excellent Performance



## Heavy-Duty Cutting

## High-Power Gear Driven Spindle

It provides stable machining capability by doubling the heavy cutting capacity with the maximum torque of the same class. It guarantees stable torque at high speed at low speed and stable rotation at high speed to realize wide machining.

### Spindle Cooling

The spindle cooling system minimizes thermal displacement which can happen during lengthy machining operations, and offers continued accuracy based on the thermal stability.

### Through Spindle Coolant **OPTION**

Through Spindle Coolant is exceedingly useful when drilling deep holes. It helps increase the lifetime of the tool, while decreasing cycle time.



**20 bar / 30 bar / 70 bar**  
**(290 psi / 435 psi / 1,015 psi)**

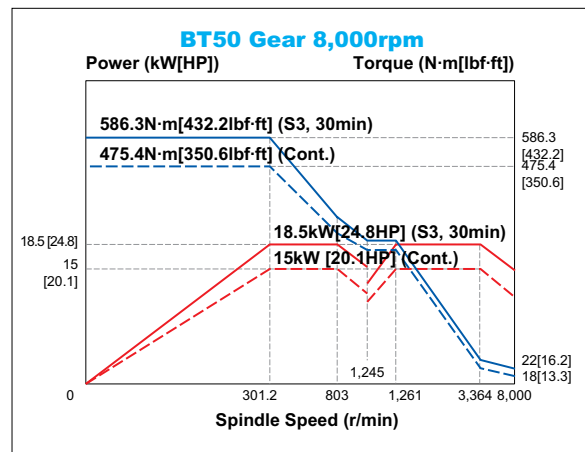
### Dual Contact Spindle

The Big Plus spindle system provides dual contact between the spindle face and the flange face of the tool holder. This greatly increases tool rigidity, reduces run out and adds significant productivity to machining applications.

8,000rpm

**18.5/15 kW (24.8/20.1 HP)**  
 Spindle Output

**586.3/475.4 N·m (432.2/350.6 lbf-ft)**  
 Spindle Torque

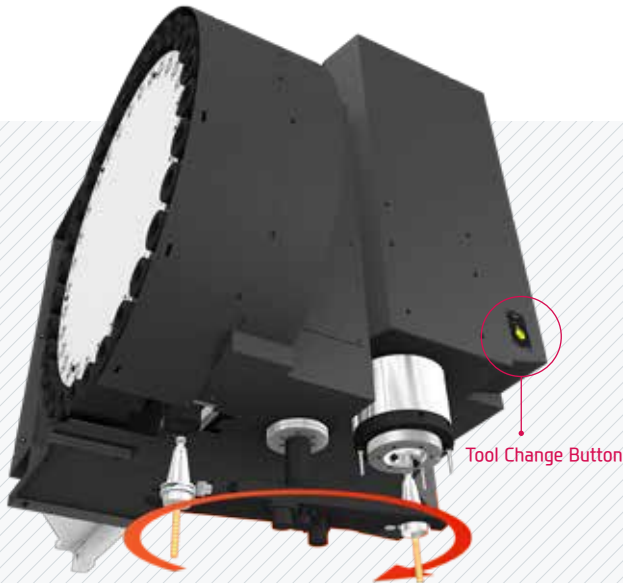


**n5**  
KF-B Series

## ATC & Magazine

High Productivity Achieved with High Rigidity,  
Accuracy Machining





## High Speed ATC

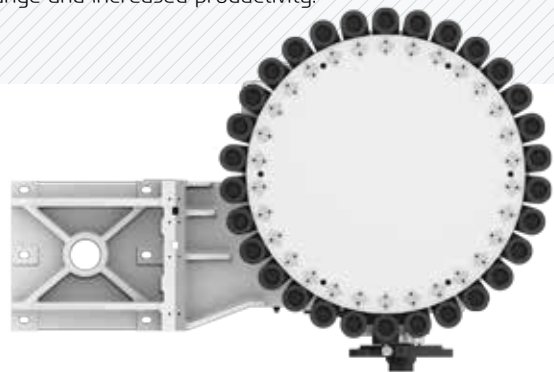
Position control through twin arm ATC on servo motors has been improved drastically. In addition, tool exchanging has become easier, reducing specific cutting time tremendously.

### ⊙ Servo ATC

Position control on the Twin Arm ATC using Servo Motors has improved drastically. The twin arm ATC enables faster tool change and increased productivity.

## Magazine

The tool magazine holds 30 tools as standard and 40 tools (BT50 : Std. 24EA, Opt. 30EA) as an option. Due to the wider selection of tools and the random tool selection method, tool change time has improved.



### Magazine Drive Motor

- 40T : Servo Motor
- 30T : Geared Motor (Opt. Servo Motor)

⊙ No. of Tools : BT40 **30** [40] EA, BT50 **24** [KF6700B/50 : **30**] [KF7700B/50 : **40**] EA [ ] : Option



- ⊙ Max. Tool Weight : BT40 **8** kg (18 lb) [BT50 **15** kg (33 lb)]
- ⊙ Max. Tool Length : BT40 **300** mm (11.8") [BT50 **350** mm (13.8")]
- ⊙ Max. Tool Dia. (W.T / W.O) : BT40  $\varnothing 80$  [ $\varnothing 76$ ]/ $\varnothing 125$  (3.1" [3"]/4.9"),  
BT50  $\varnothing 125$ / $\varnothing 220$  (4.9"/8.7")

# n6

KF-B Series

## User Convenience

Various Devices for User Friendly

### Chip Disposal Process

Chip Conveyor  
Rear (Left)

Chip Conveyor  
Front (Right)

Chip Conveyor  
Front (Left)



Interior Screw Chip Conveyor

Dual screw type chip conveyors are located at each side of the bed which makes it convenient to remove chips.

The interior screw and the chip conveyor operate at the same time and can be controlled separately at the time of prior consultation.

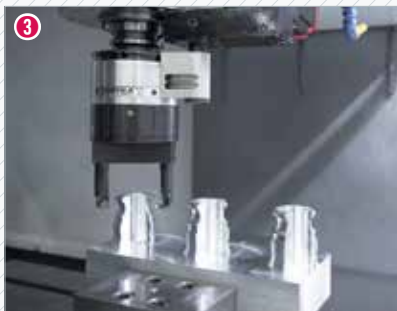
### Coolant Unit & Chip Conveyor

Timely and effective disposal of chips will enhance productivity as well as the working environment.

| Chip Conveyor | Chip Type  | Coolant Tank Type | Chip Exhaust Direction |
|---------------|--|-------------------|------------------------|
| Hinge         | Chip Type : Roughing Chip, Long Chip, Chip complex<br>Material : SS41, 45C, Cast Steel | Flood Type        | Left, Right, Rear      |
|               | Chip Type : Micro Chip<br>Material : AL  | Upper Type        | Left, Right            |
| Scraper       | Chip Type : Finely broken chip blown out<br>Material : cast Iron, Nonferrous           | Flood Type        | Left, Right, Rear      |
| ❖ Screw       | Chip Type : The lower portion of micro-chips<br>Material : Steel, Casting              | -                 | Left, Right            |
| ❖ Drum Filter | Chip Type : Powder, Micro Chip<br>Material : AL  | -                 | Left, Right, Rear      |

❖ When ordering a screw or drum filter chip conveyor, prior consult with hyundai wia's sales person.





## 1 Linear Scale **OPTION**

Linear scales can be applied when highly accurate positioning is required.

## 2 NC Rotary Table **OPTION**

Additional axis machining is possible with the installation of NCRT.

## 3 U-Center **OPTION**

The U-Center makes external and internal diameter turning possible, allowing for a wide range of variety in products.

## 4 Hydraulic Supply Unit **OPTION**

Instead of the standard hydraulic supply unit, an optional fixture unit can bring the pressure up to 100 bar(1,450 bar) maximizing the clamping force on the fixture.

## 5 Spindle Cooling Unit (More than 12K standard) **OPTION**

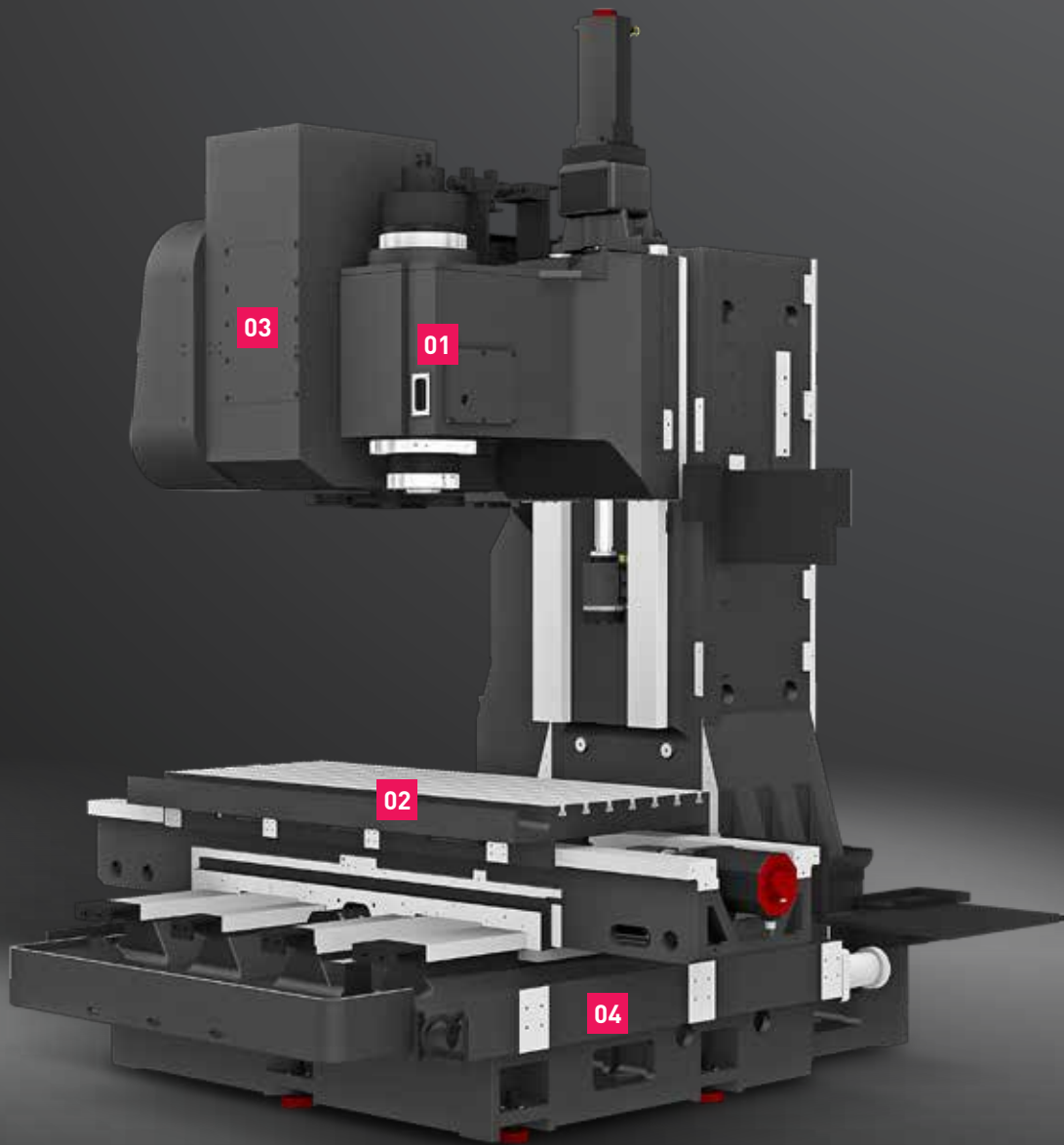
The cooling unit is installed within the side of the machine to minimize the installation area.

The application of the inverter type,  $\pm 0.1^\circ$ , enables rapid and effective control of the spindle thermal displacement.

**07**  
KF-B Series

# KF760BM

Excellent Cutting Capability & Productivity  
for Mold Machining



KF760BM

**1,550/760/720** mm (61"/30"/28.3")  
Travel (X/Y/Z)

**16/16/12** m/min (630/630/472 ipm)  
Rapid Traverse Rate (X/Y/Z)

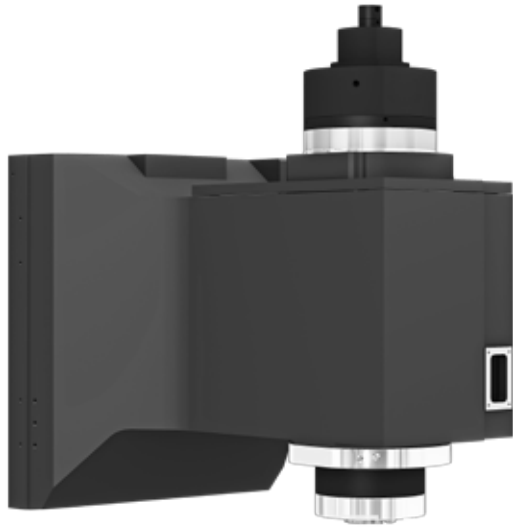


# Basic Features

## 01 Built-in Spindle

Designed with a built-in motor structure, the spindle achieves maximum acceleration and deceleration by suppressing vibration and heat that can occur during high-speed rotation, and maintains stable accuracy even under high-speed heavy duty cutting.

※ Thermal Displacement Compensation as Standard



### ⦿ Enhanced Rigidity by Weight Reduction

Especially, over-hang problem is decreased due to weight reduction(10%) of main spindle compare to the previous model to achieve high-quality mold machining.

## 02 Table

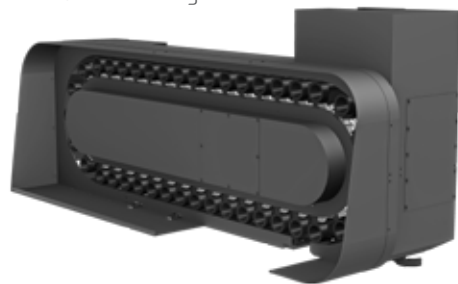
Compared to competitive machines, the KF760BM has a large working capacity to make setup easier and provide convenience to the operator.

| Model         | KF760BM                    |
|---------------|----------------------------|
| Size          | 1,800×700 mm (70.9"×27.6") |
| Load Capacity | 2,000 kg (4,409 lb)        |



## 03 Magazine

Magazine of KF760BM is separated from the main column to avoid magazine vibration which can affect precise mold machining.



## 04 Optimal Structural Analysis

KF760BM is designed to have optimal structure through Hyundai WIA's unique structural analysis. In particular, enhancement of bed and column's rigidity makes excellent performance even in heavy duty cutting.

### ⦿ Increased Rigidity through Structural Analysis

Compared to the previous model X Axis : **115% UP** Y Axis : **164% UP** Z Axis : **162% UP**

**n8**  
KF-B Series

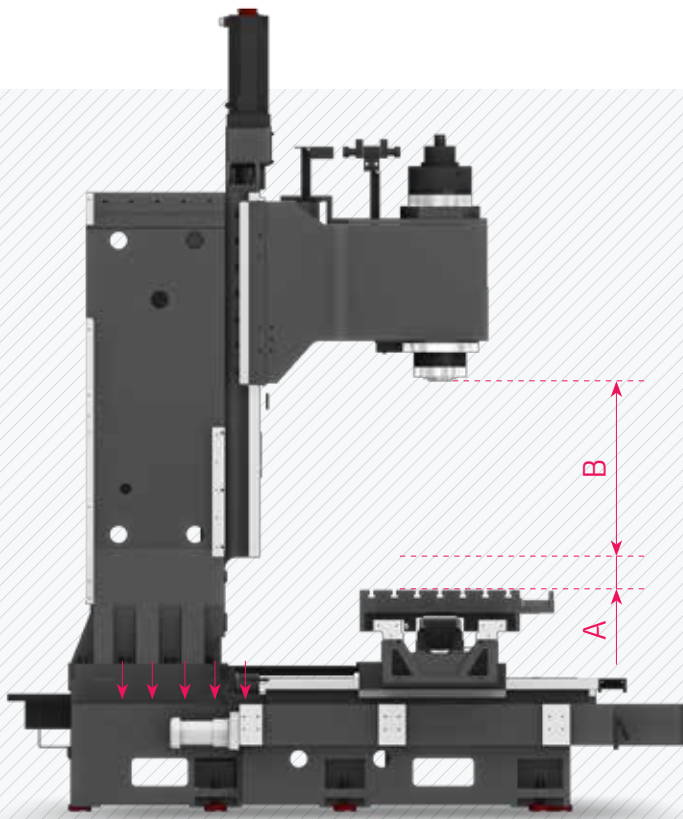
**Slideway**

Heavy Duty Cutting by High-Rigid & Accurate Mechanism



# Y-AXIS 4WAY STRUCTURE

KF760BM designed with 4-slide way of wide Y-axis to minimize the displacement by the over-hang, and it is possible to perform high-precision heavy-duty cutting. In addition, the box guideways are used to distribute the travel force evenly to each guide surface. This excellent rigidity and stable travel capability make outstanding performance in heavy-duty cutting.



### One Piece High Column Structure

Additional 250mm(9.8") extension can be applied on the KF760BM as an option.

KF760BM (A~B)

**200~920** mm (7.9"~36.2")  
Distance from Table Top to SP. Nose

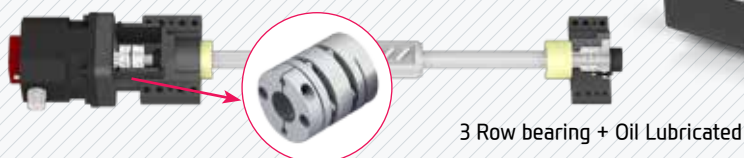
KF760BM High Column (A~B)

**OPTION**

**450~1,170** mm (17.7"~46")  
Distance from Table Top to SP. Nose

### Air Semi-Rising Slideway

By applying the air semi-rising slideways, the load on the X/Z-axis slideway is decreased. Therefore, positioning and repeatability accuracy can be maintained for a long time.



### Double anchored ball screw

The pretensioned ball screw minimizes the expansion and contraction according to the heat and further reinforces the rigidity by the double anchor support method. In addition, the coupling of the ballscrews and the highly reliable digital servo motors are connected by **metal plate couplings**, to reduce coupling breakage and backlash.



n9  
KF-B Series

# Built-in Spindle

Long Lasting High Accuracy & Excellent Performance



## High-precision Built-in Spindle

By using ultra precision angular ball bearings, fast acceleration and deceleration of the main spindle is achieved. The spindle head is designed to minimize the heat displacement of main spindle, and with the use of hydraulic tool lock system, the machining stability has increased.

### Spindle Cooling

The spindle cooling system minimizes thermal displacement which can happen during lengthy machining operations, and offers continued accuracy based on the thermal stability.

### Through Spindle Coolant **OPTION**

Through Spindle Coolant is exceedingly useful when drilling deep holes. It helps increase the lifetime of the tool, while decreasing cycle time.



**20 bar / 30 bar / 70 bar**  
**(290 psi / 435 psi / 1,015 psi)**

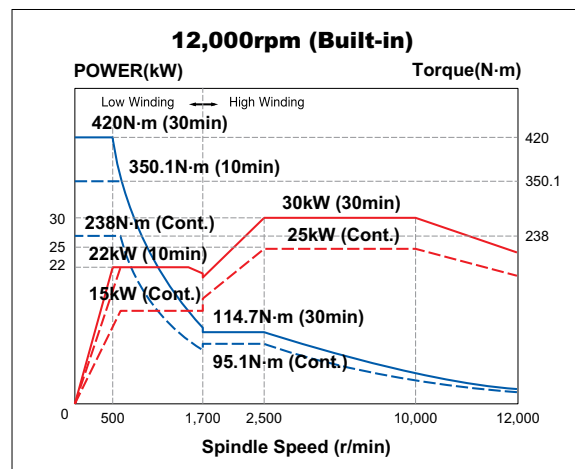
### Dual Contact Spindle

The Big Plus spindle system provides dual contact between the spindle face and the flange face of the tool holder. This greatly increases tool rigidity, reduces run out and adds significant productivity to machining applications.

12,000rpm

**30/25 kW (40.2/33.5 HP)**  
 Spindle Output

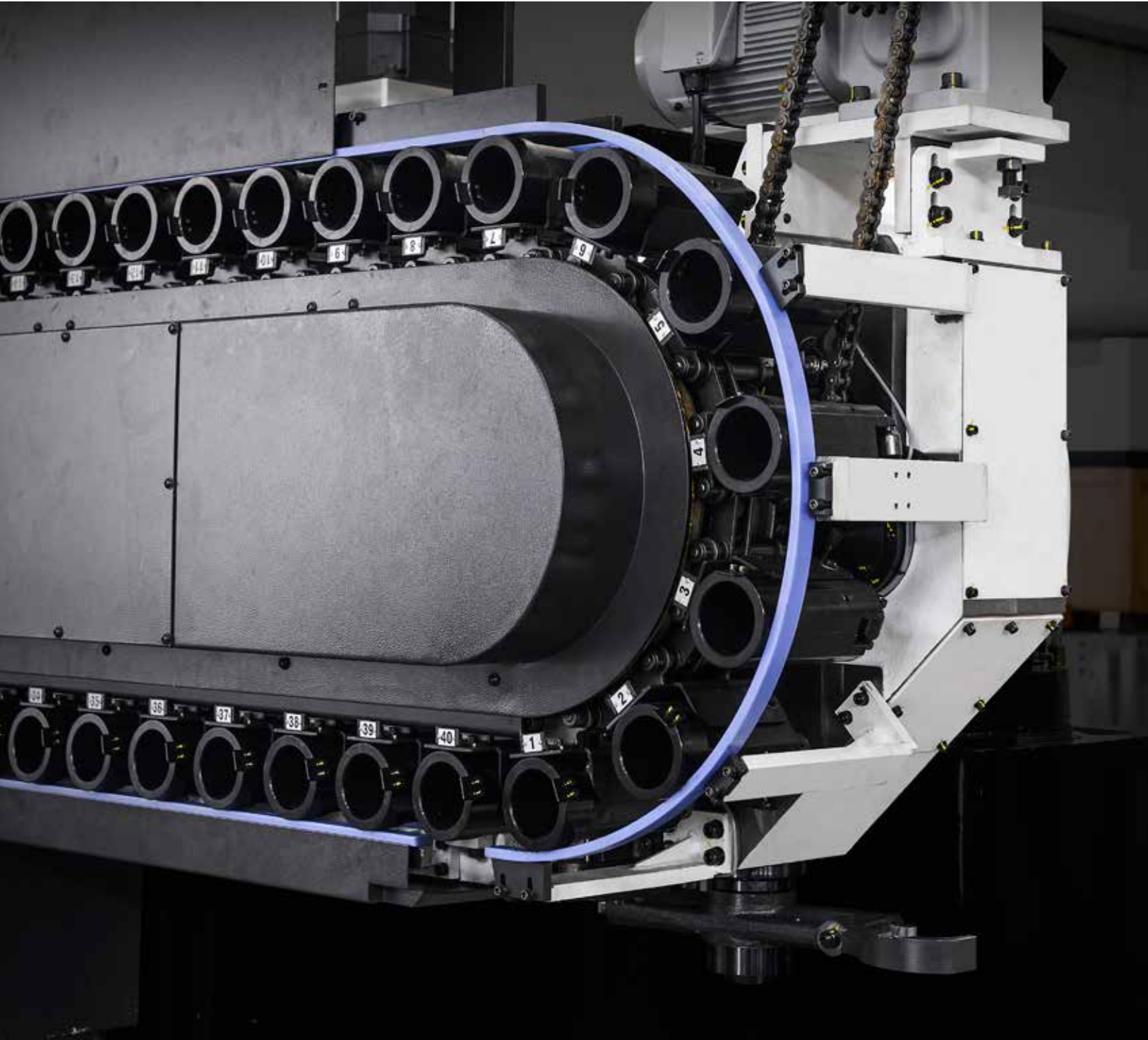
**420/238 N·m (309.8/175.5 lbf·ft)**  
 Spindle Torque

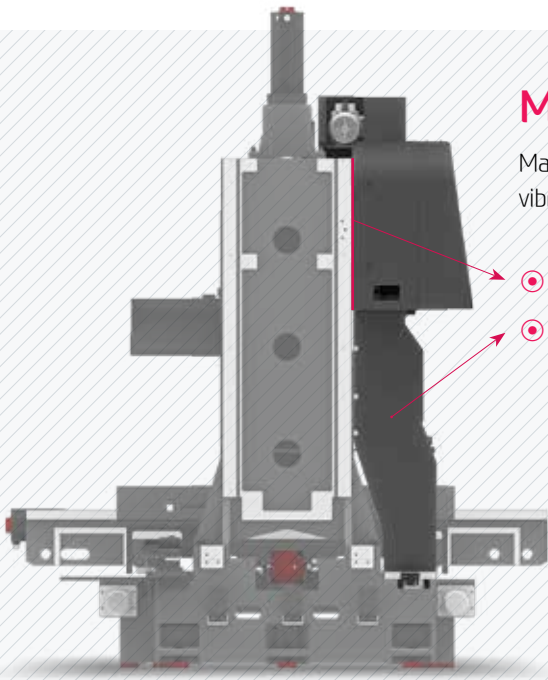


10  
KF-B Series

## ATC & Magazine

High Productivity Achieved with High Rigidity,  
Accuracy Machining

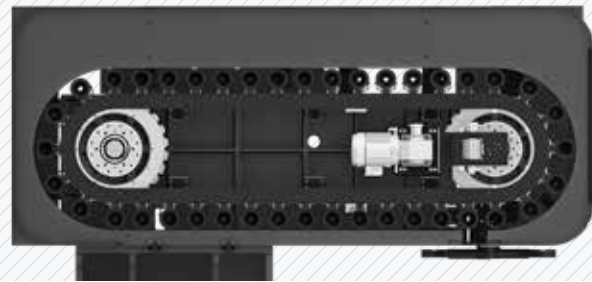




## Magazine Separated Brackets

Magazine of KF760BM is separated from the main column to avoid magazine vibration which can affect precise mold machining.

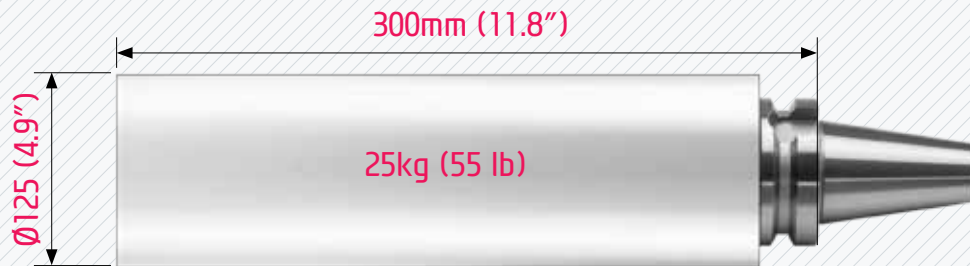
- ⦿ 10mm (0.4") separation design between column and magazine
- ⦿ Magazine Separated Brackets



< 30 Tool Magazine >

## Magazine

KF760BM provides a tool magazine of 30 tools as standard. 40 tools are provided as an option. Also, ATC with high precision CAM provides fast and accurate tool change, reducing non-cutting time.



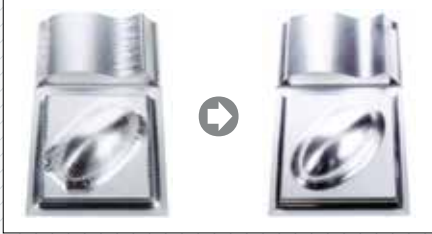
- ⦿ No. of Tools : 30 [40] EA
- ⦿ Max. Tool Weight : 25 kg (55 lb)
- ⦿ Max. Tool Length : 300 mm (11.8")
- ⦿ Max. Tool Dia. (W.T / W.O) : Ø125/Ø240 (4.9"/9.4")

# 11

KF-B Series

## Mold Package (KF760BM)

Powerful Mold Package, HYUNDAI-WIA Mold All in One



### HWM ALL-IN-ONE

To enhance mold machining, the "HWM ALL-IN-ONE" is provided as a standard feature for KF760BM.

This ensures accurate and high quality surface finishing and contouring.



### Mold Package Option (KF760BM)

| HWM ALL IN ONE   |             | 1 Package | 2 Package | 3 Package | 4 Package |
|--|-------------|-----------|-----------|-----------|-----------|
| AICC II Package  | 200 block   | ●         | ●         |           |           |
|  | 600 block   |           |           | ●         |           |
|  | 1,000 block |           |           |           | ●         |
| S/W : HW-MCS, HW-AFC                                     |             | ●         | ●         | ●         | ●         |
| Auto Power Off   |             | ●         | ●         | ●         | ●         |
| Spindle Heat Distortion Compensation Device (8 Channels) |             | ●         | ●         | ●         | ●         |
| Cutting Air Blow   |             | ●         | ●         | ●         | ●         |
| Auto Tool Measuring Device                               |             | ●         | ●         | ●         | ●         |
| Data Server 1GB  |             |           | ●         | ●         | ●         |

❖ KF5700B/6700B/7700B not available with mold package option



## CONTROLLER



- **High Speed Contouring Control (AICC II)**  
Recognizes NC Data prior to the current processing phase
- **Optimal S/W (FANUC 31i-B Model)**  
HW-MCS (Selectable Process Conditions)  
HW-AFC (Adaptive Feed Control)
- **Automatic Power Off**



- **Main Spindle Cooling Device (8-channel)**  
Maintains temperature on the main spindle from thermal displacement. (heat sensor)



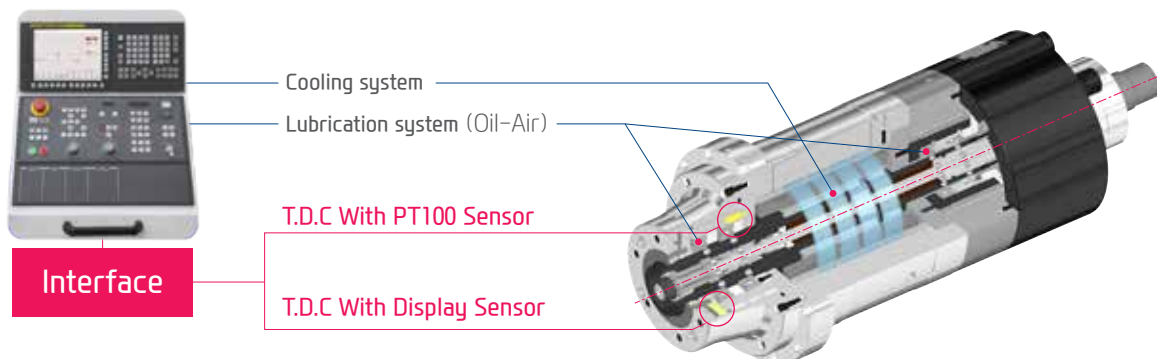
- **Cutting Air Blow**  
Cutting air blow is provided for mold machining.



- **Auto Tool Measuring Device (RENISHAW TS27R or LTS)**  
Detects and sets tool length, and attrition (Graphic User Interface included)

## Thermal Displacement Compensation Device

Thermal displacement of the spindle is minimized by the use of cooling techniques. This provides high accuracy when machining at high speed.



# 12

KF-B Series

## Smart System

Software for Smart Operating and Machining

Faster processing and enhanced accuracy in are possible through the **HYUNDAI WIA Smart System**. The user friendly software and equipment monitoring of the Smart System maximizes productivity.

**Interface Port**

Convenience is increased when inputting and outputting program. Because it is now capable of using USB port in addition to current way like CF memory card or LAN

**Energy Saving Function(ECO) & SMART Machining**

You can use energy saving function (ECO) and machining optimization function (SMART) with MCP button.

### Mold-related Software (KF760BM Mold Package Standard)



#### HW-AFC

HYUNDAI WIA  
Adaptive Feed Control

**OPTION**



#### HW-MCS

HYUNDAI WIA  
Machining Condition Selection

**OPTION**

Software that controls the feed automatically to maintain a certain working load to extend tool life as well as productivity.

Software that automatically sets cutting and feeding parameters according to the machining types (speed, degree, quality)

## Smart Factory HW-MMS (HYUNDAI WIA-Machine Monitoring System) **OPTION**

A brand new manufacturing machine 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.



- 01 Real-time monitoring of machine operation status (Cloud)
- 02 History and statistics of machine operation (Cloud)
- 03 History and statistics of alarm occurrence (Cloud)
- 04 History and statistics of work count (Cloud)
- 05 Remote diagnosis (Remote)



**HW-MCG**  
HYUNDAI WIA  
Machine Guidance

Software that offers operation, maintenance, management monitoring and various user friendly features.



**HW-TDC** **OPTION**  
HYUNDAI WIA Thermal  
Displacement Compensation

Software that measures the changes in the external environment as well as heat emission during processing to help reduce thermal displacement.



**HW-WARMUP**  
HYUNDAI WIA  
WARMing Up

Warm-up software that measures main spindle halt and offers system warm-up time automatically.



**HW-ESS**  
HYUNDAI WIA  
Energy Saving System

An environmental friendly software that reduces the unnecessarily wasted standby power waiting for an operation.



**HW-TOM** **OPTION**  
HYUNDAI WIA  
Tool Offset Measurement

User friendly GUI software that indicates tool length, diameter, and damage (H/W excluded)



**HW-TM** **OPTION**  
HYUNDAI WIA  
Tool Monitoring

A tool monitoring software which analyzes the load of the spindle motor to determine and monitor possible damage of tools.

# SPECIFICATIONS

## Standard & Optional

| Spindle                                |                                      | KF5700B | KF6700B | KF7700B |
|--|--------------------------------------|---------|---------|---------|
| 8,000rpm (15kW [20.1HP])               | DIRECT                               | ●       | ●       | ●       |
| 12,000rpm (18.5kW [24.8HP])            | DIRECT                               | ○       | ○       | ○       |
| Spindle Cooling System                 | 8,000rpm                             | ○       | ○       | ○       |
|  | 12,000rpm                            | ●       | ●       | ●       |
| <b>ATC</b>                             |                                      |         |         |         |
| ATC Extension                          | 30                                   | ●       | ●       | ●       |
|  | 40                                   | ○       | ○       | ○       |
| Tool Shank Type                        | BT40                                 | ●       | ●       | ●       |
|  | CAT40                                | ○       | ○       | ○       |
| U-Center                               | D'andrea                             | ○       | ○       | ○       |
| Pull Stud                              | 45°                                  | ●       | ●       | ●       |
|  | 60°                                  | -       | -       | -       |
|  | 90°                                  | -       | -       | -       |
| <b>Table &amp; Column</b>              |                                      |         |         |         |
| APC                                    |                                      | -       | -       | -       |
| Tap Type Table                         |                                      | -       | -       | -       |
| T-Slot Table                           |                                      | ●       | ●       | ●       |
| NCRotary Table                         |                                      | ☆       | ☆       | ☆       |
| High Column                            | 200mm (7.9")                         | -       | -       | -       |
|  | 300mm (11.8")                        | ○       | ○       | ○       |
| <b>Coolant System</b>                  |                                      |         |         |         |
| Std. Coolant (Main Spindle Nozzle)     |                                      | ●       | ●       | ●       |
| Through Spindle Coolant                | 20bar (290 psi)                      | ○       | ○       | ○       |
|  | 30bar (435 psi),<br>20 ℓ (5.3 gal)   | ○       | ○       | ○       |
|  | 70bar (1,015 psi),<br>15 ℓ (4 gal)   | ○       | ○       | ○       |
|  | 70bar (1,015 psi),<br>30 ℓ (7.9 gal) | ○       | ○       | ○       |
| Top Cover                              |                                      | ●       | ●       | ●       |
| Shower Coolant                         |                                      | ○       | ○       | ○       |
| Gun Coolant                            |                                      | ○       | ○       | ○       |
| Bed Flushing Coolant                   |                                      | ☆       | ☆       | ☆       |
| Air Gun                                |                                      | ○       | ○       | ○       |
| Cutting Air Blow                       |                                      | ○       | ○       | ○       |
| Tool Measuring Air Blow (Only for TLM) |                                      | ●       | ●       | ●       |
| Air Blow for Automation                |                                      | ☆       | ☆       | ☆       |
| Thru MQL Device (Without MQL)          |                                      | ☆       | ☆       | ☆       |
| Coolant Chiller                        |                                      | ☆       | ☆       | ☆       |
| Power Coolant System (For Automation)  |                                      | ☆       | ☆       | ☆       |
| <b>Chip Disposal</b>                   |                                      |         |         |         |
| Coolant Tank                           |                                      | ●       | ●       | ●       |
| Interior Screw Chip Conveyor           |                                      | ●       | ●       | ●       |
| Flood Chip Conveyor (Hinge/Scraper)    | Left                                 | ○       | ○       | ○       |
|  | Right                                | ○       | ○       | ○       |
|  | Rear                                 | ○       | ○       | ○       |
| Upper Chip Conveyor (Hinge)            | Left                                 | ○       | ○       | ○       |
|  | Right                                | ○       | ○       | ○       |
| Screw Type Chip Conveyor               | Left                                 | ☆       | ☆       | ☆       |
|  | Right                                | ☆       | ☆       | ☆       |
| Drum Filter Type Chip Conveyor         | Left                                 | ☆       | ☆       | ☆       |
|  | Right                                | ☆       | ☆       | ☆       |
|  | Rear                                 | ☆       | ☆       | ☆       |
| 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                           | ☆       | ☆       | ☆       |

● : Standard ○ : Option ☆ : Prior Consultation - : Non Applicable

| S/W   |                     | KF5700B | KF6700B | KF7700B |
|---|---------------------|---------|---------|---------|
| Machine Guidance (HW-MCG)                                   |                     | ●       | ●       | ●       |
| Tool Monitoring (HW-TM)                                     |                     | ○       | ○       | ○       |
| DNC Software (HW-eDNC)                                      |                     | ○       | ○       | ○       |
| Spindle Heat Distortion Compensation (HW-TDC)               |                     | ○       | ○       | ○       |
| Spindle Warm up Function (HW-WARMUP)                        |                     | ●       | ●       | ●       |
| Energy Saving System (HW-ESS)                               |                     | ●       | ●       | ●       |
| Machine Monitoring System (HW-MMS)                          |                     | ○       | ○       | ○       |
| Tool Offset Measurement (HW-TOM)                            |                     | ☆       | ☆       | ☆       |
| Machining Condition Selection (HW-MCS)                      |                     | ☆       | ☆       | ☆       |
| Adaptive Feed Control (HW-AFC)                              |                     | ☆       | ☆       | ☆       |
| Conversational Program (HW-DPRO)                            |                     | ○       | ○       | ○       |
| <b>Electric Device</b>                                      |                     |         |         |         |
| Call Light  | 1 Color : ●         | ●       | ●       | ●       |
| Call Light  | 2 Color : ●●        | ○       | ○       | ○       |
| Call Light  | 3 Color : ●●●       | ○       | ○       | ○       |
| Call Light & Buzzer   | 3 Color : ●●● B     | ○       | ○       | ○       |
| Electric Cabinet Light                                      |                     | ○       | ○       | ○       |
| Remote MPG  |                     | ●       | ●       | ●       |
| 3 Axis MPG  |                     | ○       | ○       | ○       |
| Work Counter  | Digital             | ○       | ○       | ○       |
| Total Counter   | Digital             | ○       | ○       | ○       |
| Tool Counter  | Digital             | ○       | ○       | ○       |
| Multi Tool Counter  | Digital             | ○       | ○       | ○       |
| Electric Circuit Breaker                                    |                     | ○       | ○       | ○       |
| AVR (Auto Voltage Regulator)                                |                     | ☆       | ☆       | ☆       |
| Transformer   | 25kVA               | ○       | ○       | ○       |
| Auto Power Off  |                     | ○       | ○       | ○       |
| Back up Module for Black out                                |                     | ○       | ○       | ○       |
| <b>Measuring Device</b>                                     |                     |         |         |         |
| Air Zero  | TACO                | ○       | ○       | ○       |
|   | SMC                 | ○       | ○       | ○       |
| Work Measuring Device                                       |                     | ○       | ○       | ○       |
| TLM   | Touch               | ○       | ○       | ○       |
| (Marposs/Renishaw/Blum)                                     | Laser               | ○       | ○       | ○       |
| Tool Broken Detecting Device                                |                     | ☆       | ☆       | ☆       |
| Linear Scale  | X/Y/Z Axis          | ○       | ○       | ○       |
| Coolant Level Sensor (Only for Chip Conveyor, Bladder Type) |                     | ☆       | ☆       | ☆       |
| <b>Environment</b>  |                     |         |         |         |
| Air Conditioner   |                     | ○       | ○       | ○       |
| Oil Mist Collector  |                     | ☆       | ☆       | ☆       |
| Oil Skimmer (Only for Chip Conveyor)                        |                     | ○       | ○       | ○       |
| MQL (Minimal Quantity Lubrication)                          |                     | ☆       | ☆       | ☆       |
| <b>Fixture &amp; Automation</b>                             |                     |         |         |         |
| Auto Door   | Std.                | ○       | ○       | ○       |
|   | High Speed          | ☆       | ☆       | ☆       |
| Auto Shutter (Only for Automatic System)                    |                     | ○       | ○       | ○       |
| Sub O/P   |                     | ☆       | ☆       | ☆       |
| NC Rotary Table/F   | Single              | ○       | ○       | ○       |
|   | Channel             | ☆       | ☆       | ☆       |
| Control of Additional Axis                                  | 1Axis               | ○       | ○       | ○       |
|   | 2Axis               | ☆       | ☆       | ☆       |
| External M Code 4ea   |                     | ○       | ○       | ○       |
| Automation Interface  |                     | ☆       | ☆       | ☆       |
| I/O Extension (In & Out)                                    | 16 Contact          | ○       | ○       | ○       |
|   | 32 Contact          | ○       | ○       | ○       |
| <b>Hyd. Device</b>  |                     |         |         |         |
| Std. Hyd. Unit  | 45bar (653 psi)     | -       | -       | -       |
|   | 70bar (1,015 psi)   | ○       | ○       | ○       |
|   | 100bar (1,450 psi)  | ○       | ○       | ○       |
|   | Customized          | ☆       | ☆       | ☆       |
| <b>ETC</b>  |                     |         |         |         |
| Tool Box  |                     | ●       | ●       | ●       |
| Customized Color  | Need for Munsel No. | ☆       | ☆       | ☆       |
| CAD&CAM Software  |                     | ☆       | ☆       | ☆       |

# SPECIFICATIONS

## Standard & Optional

|  |                                      | KF5700B/50 | KF6700B/50 | KF7700B/50 |
|--|--------------------------------------|------------|------------|------------|
| <b>Spindle</b>                         |                                      |            |            |            |
| 8,000rpm (15kW [20.1HP])               | DIRECT                               | ●          | ●          | ●          |
| 8,000rpm (18.5kW [24.8HP])             | GEAR                                 | ○          | ○          | ○          |
| Spindle Cooling System                 |                                      | ●          | ●          | ●          |
| <b>ATC</b>                             |                                      |            |            |            |
| ATC Extension                          | 20                                   | ●          | ●          | ●          |
|  | 30                                   | -          | ○          | -          |
|  | 40                                   | -          | -          | ○          |
| Tool Shank Type                        | BT50                                 | ●          | ●          | ●          |
|  | CAT50                                | ○          | ○          | ○          |
| U-Center                               | D'andrea                             | ○          | ○          | ○          |
|  | 45°                                  | ●          | ●          | ●          |
| Pull Stud                              | 60°                                  | -          | -          | -          |
|  | 90°                                  | -          | -          | -          |
|  |                                      |            |            |            |
| <b>Table &amp; Column</b>              |                                      |            |            |            |
| APC                                    |                                      | -          | -          | -          |
| Tap Type Table                         |                                      | -          | -          | -          |
| T-Slot Table                           |                                      | ●          | ●          | ●          |
| NC Rotary Table                        |                                      | ☆          | ☆          | ☆          |
| High Column                            | 200mm (7.9")                         | -          | -          | -          |
|  | 300mm (11.8")                        | ○          | ○          | ○          |
| <b>Coolant System</b>                  |                                      |            |            |            |
| Std. Coolant (Main Spindle Nozzle)     |                                      | ●          | ●          | ●          |
| Through Spindle Coolant                | 20bar (290 psi)                      | ○          | ○          | ○          |
|  | 30bar (435 psi),<br>20 l (5.3 gal)   | ○          | ○          | ○          |
|  | 70bar (1,015 psi),<br>15 l (4 gal)   | ○          | ○          | ○          |
|  | 70bar (1,015 psi),<br>30 l (7.9 gal) | ○          | ○          | ○          |
| Top Cover                              |                                      | ●          | ●          | ●          |
| Shower Coolant                         |                                      | ○          | ○          | ○          |
| Gun Coolant                            |                                      | ○          | ○          | ○          |
| Bed Flushing Coolant                   |                                      | ☆          | ☆          | ☆          |
| Air Gun                                |                                      | ○          | ○          | ○          |
| Cutting Air Blow                       |                                      | ○          | ○          | ○          |
| Tool Measuring Air Blow (Only for TLM) |                                      | ●          | ●          | ●          |
| Air Blow for Automation                |                                      | ☆          | ☆          | ☆          |
| Thru MQL Device (Without MQL)          |                                      | ☆          | ☆          | ☆          |
| Coolant Chiller                        |                                      | ☆          | ☆          | ☆          |
| Power Coolant System (For Automation)  |                                      | ☆          | ☆          | ☆          |
| <b>Chip Disposal</b>                   |                                      |            |            |            |
| Coolant Tank                           |                                      | ●          | ●          | ●          |
| Interior Screw Chip Conveyor           |                                      | ●          | ●          | ●          |
| Flood Chip Conveyor (Hinge/Scraper)    | Left                                 | ○          | ○          | ○          |
|  | Right                                | ○          | ○          | ○          |
|  | Rear                                 | ○          | ○          | ○          |
| Upper Chip Conveyor (Hinge)            | Left                                 | ○          | ○          | ○          |
|  | Right                                | ○          | ○          | ○          |
| Screw Type Chip Conveyor               | Left                                 | ☆          | ☆          | ☆          |
|  | Right                                | ☆          | ☆          | ☆          |
| Drum Filter Type Chip Conveyor         | Left                                 | ☆          | ☆          | ☆          |
|  | Right                                | ☆          | ☆          | ☆          |
|  | Rear                                 | ☆          | ☆          | ☆          |
| 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                           | ☆          | ☆          | ☆          |

● : Standard ○ : Option ☆ : Prior Consultation - : Non Applicable

| S/W   |                     | KF5700B/50 | KF6700B/50 | KF7700B/50 |
|---|---------------------|------------|------------|------------|
| Machine Guidance (HW-MCG)                                   |                     | ●          | ●          | ●          |
| Tool Monitoring (HW-TM)                                     |                     | ○          | ○          | ○          |
| DNC Software (HW-eDNC)                                      |                     | ○          | ○          | ○          |
| Spindle Heat Distortion Compensation (HW-TDC)               |                     | ○          | ○          | ○          |
| Spindle Warm up Function (HW-WARMUP)                        |                     | ●          | ●          | ●          |
| Energy Saving System (HW-ESS)                               |                     | ●          | ●          | ●          |
| Machine Monitoring System (HW-MMS)                          |                     | ○          | ○          | ○          |
| Tool Offset Measurement (HW-TOM)                            |                     | ☆          | ☆          | ☆          |
| Machining Condition Selection (HW-MCS)                      |                     | ☆          | ☆          | ☆          |
| Adaptive Feed Control (HW-AFC)                              |                     | ☆          | ☆          | ☆          |
| Conversational Program (HW-DPRO)                            |                     | ○          | ○          | ○          |
| <b>Electric Device</b>                                      |                     |            |            |            |
| Call Light  | 1 Color : ●         | ●          | ●          | ●          |
| Call Light  | 2 Color : ●●        | ○          | ○          | ○          |
| Call Light  | 3 Color : ●●●       | ○          | ○          | ○          |
| Call Light & Buzzer   | 3 Color : ●●● B     | ○          | ○          | ○          |
| Electric Cabinet Light                                      |                     | ○          | ○          | ○          |
| Remote MPG  |                     | ●          | ●          | ●          |
| 3 Axis MPG  |                     | ○          | ○          | ○          |
| Work Counter  | Digital             | ○          | ○          | ○          |
| Total Counter   | Digital             | ○          | ○          | ○          |
| Tool Counter  | Digital             | ○          | ○          | ○          |
| Multi Tool Counter  | Digital             | ○          | ○          | ○          |
| Electric Circuit Breaker                                    |                     | ○          | ○          | ○          |
| AVR (Auto Voltage Regulator)                                |                     | ☆          | ☆          | ☆          |
| Transformer   | 25kVA               | ○          | ○          | ○          |
| Auto Power Off  |                     | ○          | ○          | ○          |
| Back up Module for Black out                                |                     | ○          | ○          | ○          |
| <b>Measuring Device</b>                                     |                     |            |            |            |
| Air Zero  | TACO                | ○          | ○          | ○          |
|   | SMC                 | ○          | ○          | ○          |
| Work Measuring Device                                       |                     | ○          | ○          | ○          |
| TLM   | Touch               | ○          | ○          | ○          |
| (Marposs/Renishaw/Blum)                                     | Laser               | ○          | ○          | ○          |
| Tool Broken Detect Device                                   |                     | ☆          | ☆          | ☆          |
| Linear Scale  | X/Y/Z Axis          | ○          | ○          | ○          |
| Coolant Level Sensor (Only for Chip Conveyor, Bladder Type) |                     | ☆          | ☆          | ☆          |
| <b>Environment</b>  |                     |            |            |            |
| Air Conditioner   |                     | ○          | ○          | ○          |
| Oil Mist Collector  |                     | ☆          | ☆          | ☆          |
| Oil Skimmer (Only for Chip Conveyor)                        |                     | ○          | ○          | ○          |
| MQL (Minimal Quantity Lubrication)                          |                     | ☆          | ☆          | ☆          |
| <b>Fixture &amp; Automation</b>                             |                     |            |            |            |
| Auto Door   | Std.                | ○          | ○          | ○          |
|   | High Speed          | ☆          | ☆          | ☆          |
| Auto Shutter (Only for Automatic System)                    |                     | ○          | ○          | ○          |
| Sub O/P   |                     | ☆          | ☆          | ☆          |
| NC Rotary Table/F   | Single              | ○          | ○          | ○          |
|   | Channel             | ☆          | ☆          | ☆          |
| Control of Additional Axis                                  | 1Axis               | ○          | ○          | ○          |
|   | 2Axis               | ☆          | ☆          | ☆          |
| External M Code 4ea   |                     | ○          | ○          | ○          |
| Automation Interface  |                     | ☆          | ☆          | ☆          |
| I/O Extension (In & Out)                                    | 16 Contact          | ○          | ○          | ○          |
|   | 32 Contact          | ○          | ○          | ○          |
| <b>Hyd. Device</b>  |                     |            |            |            |
| Std. Hyd. Unit  | 45bar (653 psi)     | -          | -          | -          |
|   | 70bar (1,015 psi)   | ○          | ○          | ○          |
|   | 100bar (1,450 psi)  | ○          | ○          | ○          |
|   | Customized          | ☆          | ☆          | ☆          |
| <b>ETC</b>  |                     |            |            |            |
| Tool Box  |                     | ●          | ●          | ●          |
| Customized Color  | Need for Munsel No. | ☆          | ☆          | ☆          |
| CAD&CAM Software  |                     | ☆          | ☆          | ☆          |

Specifications are subject to change without notice for improvement.

# SPECIFICATIONS

## Standard & Optional

| Spindle   |                                   | KF760BM            |
|---|-----------------------------------|--------------------|
| 12,000rpm Built-in (30/25kW[40.2/33.5HP])       | FANUC                             | ●                  |
| Spindle Cooling System                          |                                   | ●                  |
| <b>ATC</b>                                      |                                   |                    |
| ATC Extension                                   | 20                                | ●                  |
|   | 30                                | ○                  |
| Tool Shank Type                                 | BBT50                             | ●                  |
|   | BT50                              | -                  |
|   | CAT50                             | ○                  |
| U-Center  | D'andrea                          | ○                  |
| Pull Stud                                       | 45°                               | ●                  |
|   | 60°                               | ○                  |
|   | 90°                               | ○                  |
| <b>Table &amp; Column</b>                       |                                   |                    |
| APC   | Rorary Turn                       | -                  |
| Tap Type Pallet                                 |                                   | -                  |
| T-Slot Pallet                                   |                                   | ●                  |
| NC Rotary Table                                 |                                   | ☆                  |
| High Column                                     | 250mm(9.8")                       | ○                  |
|   | 300mm(11.8")                      | -                  |
| <b>Coolant System</b>                           |                                   |                    |
| Std. Coolant (Nozzle)                           |                                   | ●                  |
| Bed Flushing Coolant                            |                                   | ●                  |
| Through spindle coolant*1)                      | 20bar (290 psi)                   | ○                  |
|   | 30bar (435 psi), 20 ℓ (5.3 gal)   | ○                  |
|   | 70bar (1,015 psi), 15 ℓ (4 gal)   | ○                  |
|   | 70bar (1,015 psi), 30 ℓ (7.9 gal) | ○                  |
| Top Cover (Thru coolant applied when necessary) |                                   | ○                  |
| Shower Coolant                                  |                                   | ○                  |
| Gun Coolant                                     |                                   | ○                  |
| Side Oil Hole Coolant                           |                                   | ○                  |
| Air Gun   |                                   | ○                  |
| Cutting Air Blow                                |                                   | ○                  |
| Tool Measuring Air Blow (Only for TLM)          |                                   | ○                  |
| Air Blow for Automation                         |                                   | ☆                  |
| Thru MQL Device (Without MQL)                   |                                   | ☆                  |
| Coolant Chiller                                 |                                   | ☆                  |
| Power Coolant System (For Automation)           |                                   | ☆                  |
| <b>Chip Disposal</b>                            |                                   |                    |
| Coolant Tank                                    | 400 ℓ (105.7 gal)                 | ●                  |
|   | 690 ℓ (182.3 gal)                 | -                  |
| Interior Screw Chip Conveyor                    |                                   | ●                  |
| Exterior Screw Chip Conveyor                    |                                   | ●                  |
| Chip Conveyor (Hinge/Scraper)                   | Rear(Right)                       | ○                  |
|   | Left(Rear)                        | ○                  |
|   | Front(Left)                       | -                  |
| Chip Conveyor (Hinge)                           | 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                        | ☆                  |
| <b>S/W</b>                                      |                                   |                    |
| Machine guidance (HW-MCG)                       |                                   | ●                  |
| Tool Monitoring (HW-TM)                         |                                   | ○                  |
| DNC Software (HW-eDNC)                          |                                   | ○                  |
| Spindle Heat Distortion Compensation (HW-TDC)   |                                   | ○ (Mold Package ●) |
| Spindle Warm up Function (HW-WARMUP)            |                                   | ●                  |
| Energy Saving System (HW-ESS)                   |                                   | ●                  |

● : Standard ○ : Option ☆ : Prior Consultation - : Non Applicable

| S/W   |                                    | KF760BM            |
|---|------------------------------------|--------------------|
| Machine Monitoring System (HW-MMS)                          |                                    | ○                  |
| Tool Offset Measurement (HW-TOM)                            |                                    | ☆ (Mold Package ●) |
| Machining Condition Selection (HW-MCS)                      |                                    | ☆ (Mold Package ●) |
| Adaptive Feed Control (HW-AFC)                              |                                    | ☆ (Mold Package ●) |
| Conversational Program (HW-DPRO)                            |                                    | ○                  |
| <b>Electric Device</b>                                      |                                    |                    |
| Call Light  | 1 Color : ■                        | ●                  |
|   | 2 Color : ■ ■                      | ○                  |
| Call Light  | 3 Color : ■ ■ ■                    | ○                  |
| Call Light & Buzzer   | 3 Color : ■ ■ ■ B                  | ○                  |
| Work Light  |                                    | ●                  |
| Electric Cabinet Light                                      |                                    | ○                  |
| Remote MPG  |                                    | ●                  |
| 3 Axis MPG  | FANUC                              | ○                  |
|   | SIEMENS                            | -                  |
| Work Counter  | Digital                            | ○                  |
| Total Counter   | Digital                            | ○                  |
| Tool Counter  | Digital                            | ○                  |
| Multi Tool Counter  | 6 EA                               | ○                  |
|   | 9 EA                               | ○                  |
| Electric Circuit Breaker                                    |                                    | ○                  |
| AVR (Auto Voltage Regulator)                                |                                    | ☆                  |
| Transformer   | 40kVA                              | ○                  |
|   | 45kVA                              | -                  |
| Auto Power Off  |                                    | ○ (Mold Package ●) |
| Back up Module for Black out                                |                                    | ○                  |
| <b>Measuring Device</b>                                     |                                    |                    |
| Air Zero  | TACO                               | ○                  |
|   | SMC                                | ○                  |
| Work Measuring Device                                       |                                    | ○                  |
| TLM (Marposs/Renishaw/Blum)                                 | Touch                              | ○ (Mold Package ●) |
|   | Laser                              | ○                  |
| Tool Broken Detective Device                                |                                    | ☆                  |
| Linear Scale  | X/Y/Z Axis                         | ○                  |
| Coolant Level Sensor (Only for Chip Conveyor, Bladder Type) |                                    | ☆                  |
| <b>Enviornment</b>  |                                    |                    |
| Air Conditioner   |                                    | ○                  |
| Dehumidifier  |                                    | ○                  |
| Oil Mist Collector  |                                    | ☆                  |
| Oil Skimmer (Only for Chip Conveyor)                        |                                    | ○                  |
| MQL (Minimal Quantity Lubrication)                          |                                    | ☆                  |
| <b>Fixture &amp; Automation</b>                             |                                    |                    |
| Auto Door   | Std.                               | ○                  |
|   | High Speed                         | ☆                  |
| Auto Shutter (Only for Automatic System)                    |                                    | -                  |
| Sub O/P   |                                    | ☆                  |
| NC Rotary Table/F   | Single                             | ○                  |
|   | Channel                            | ☆                  |
| Control of Additional Axis                                  | 1Axis                              | ○                  |
|   | 2Axis                              | ☆                  |
| External M Code 4ea   |                                    | ○                  |
| Automation Interface  |                                    | ☆                  |
| I/O Extension (In & Out)                                    | 16 Contact                         | ○                  |
|   | 32 Contact                         | ○                  |
| <b>Hyd. Device</b>  |                                    |                    |
| Std. Hyd. Unit  | 70bar (1,015 psi) / 13 ℓ (3.4 gal) | -                  |
|   | 45bar (652.7 psi)                  | ○                  |
| Fixture Hyd. Unit   | 70bar (1,015 psi)                  | ○                  |
|   | 100bar (1,450 psi)                 | ☆                  |
|   | Customized                         | ☆                  |
| <b>ETC</b>  |                                    |                    |
| Tool Box  |                                    | ●                  |
| Customized Color  | Need for Munsel No.                | ☆                  |
| CAD&CAM Software  |                                    | ☆                  |

\*1 : Please check the filter types with sales representative.

Specifications are subject to change without notice for improvement.





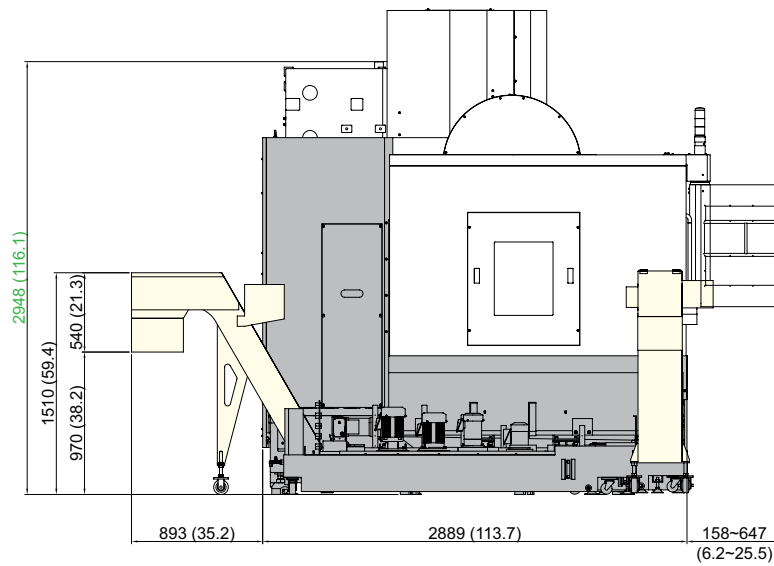
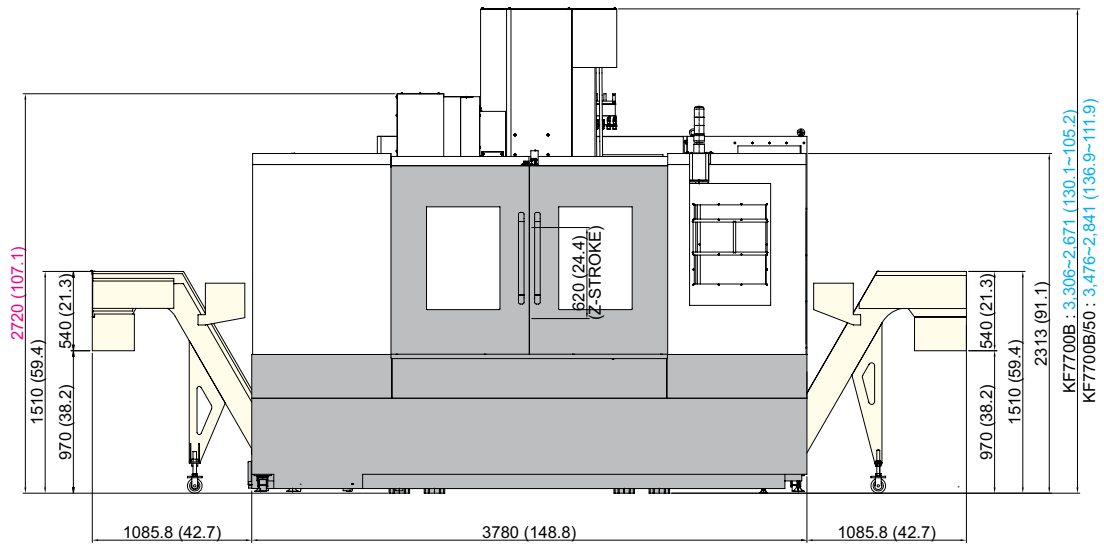


# SPECIFICATIONS

## External Dimensions

unit : mm(in)

### KF7700B



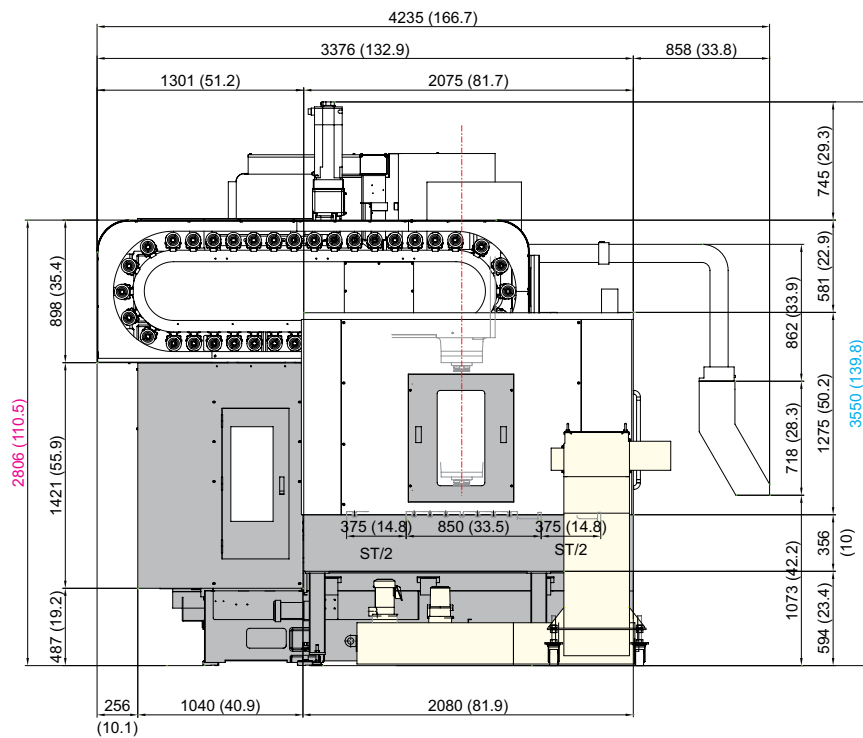
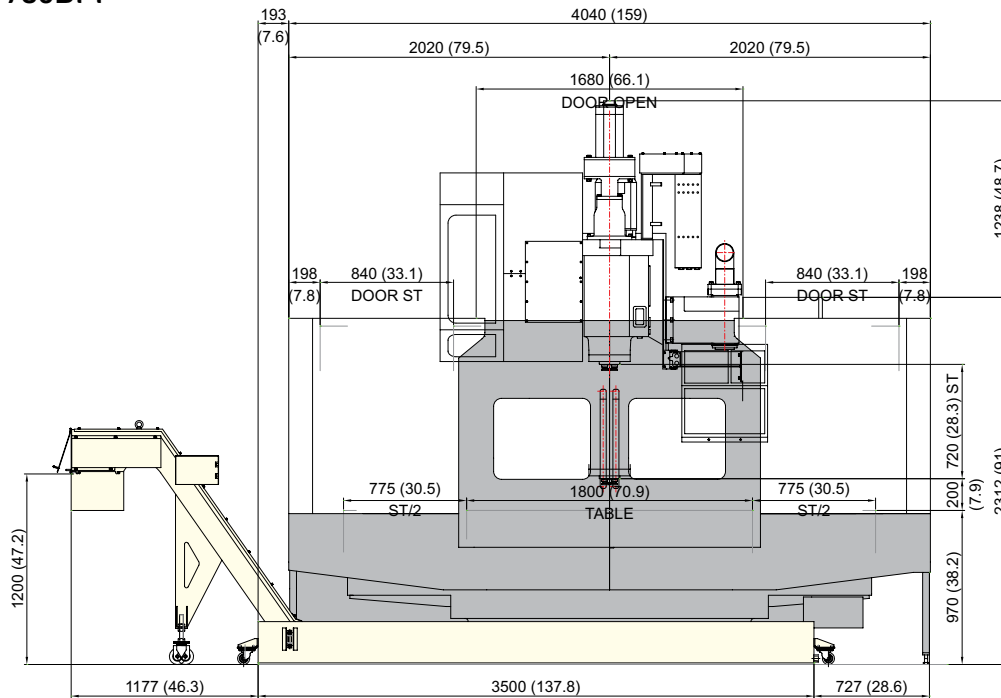
■ : Max. height | ■ : Height to ATC cover | ■ : Height to Z-axis motor

# SPECIFICATIONS

## External Dimensions

unit : mm(in)

### KF760BM



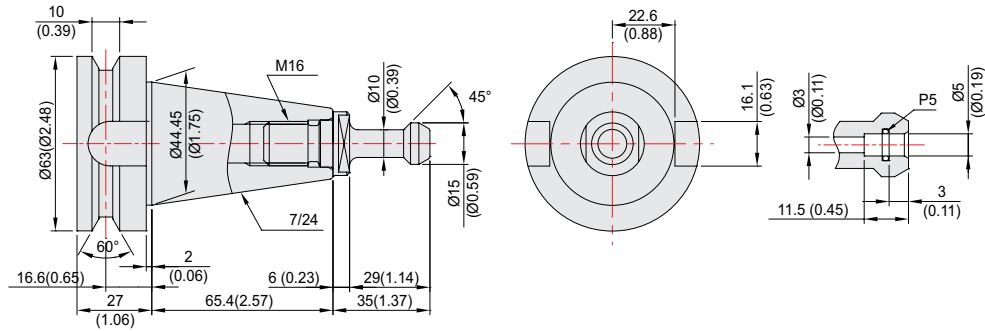
■ : Max. height | ■ : Height to ATC cover

# SPECIFICATIONS

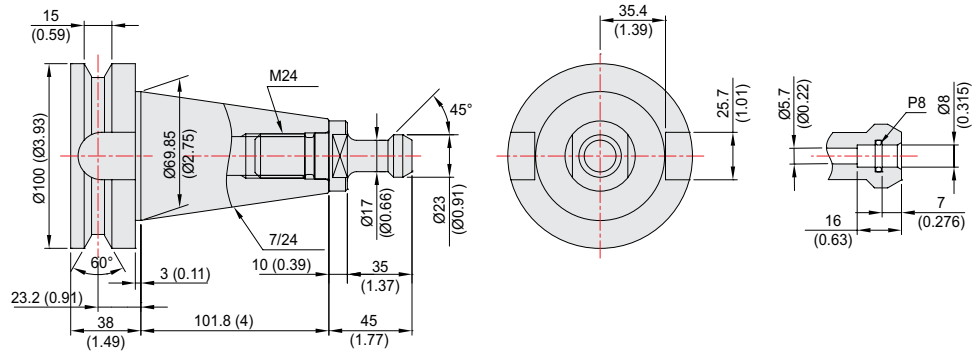
## Tool Shank

unit : mm(in)

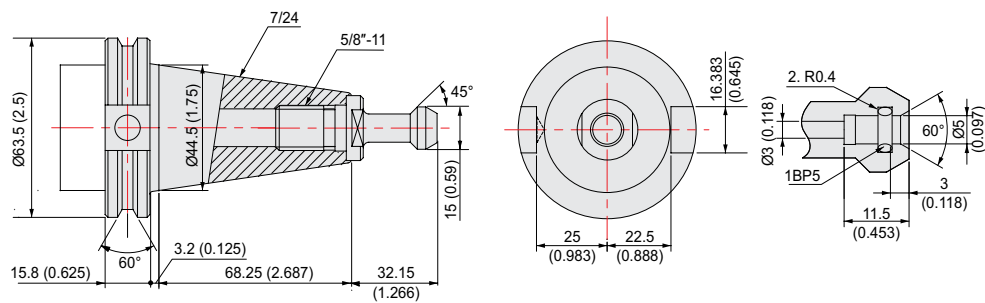
**BT40**



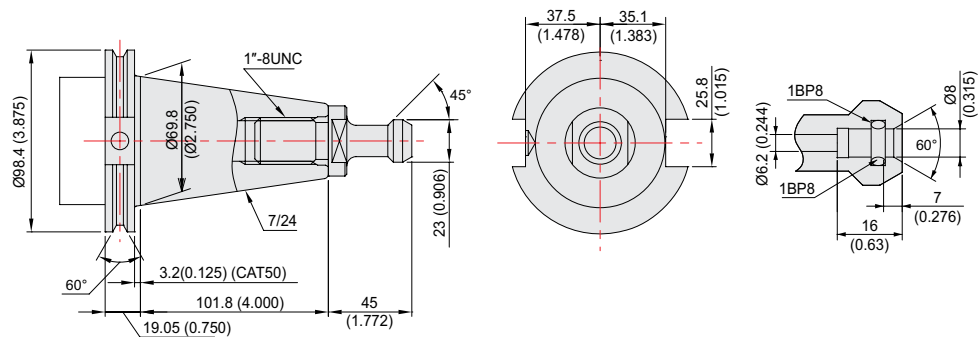
**BT50**



**CAT40**



**CAT-50**

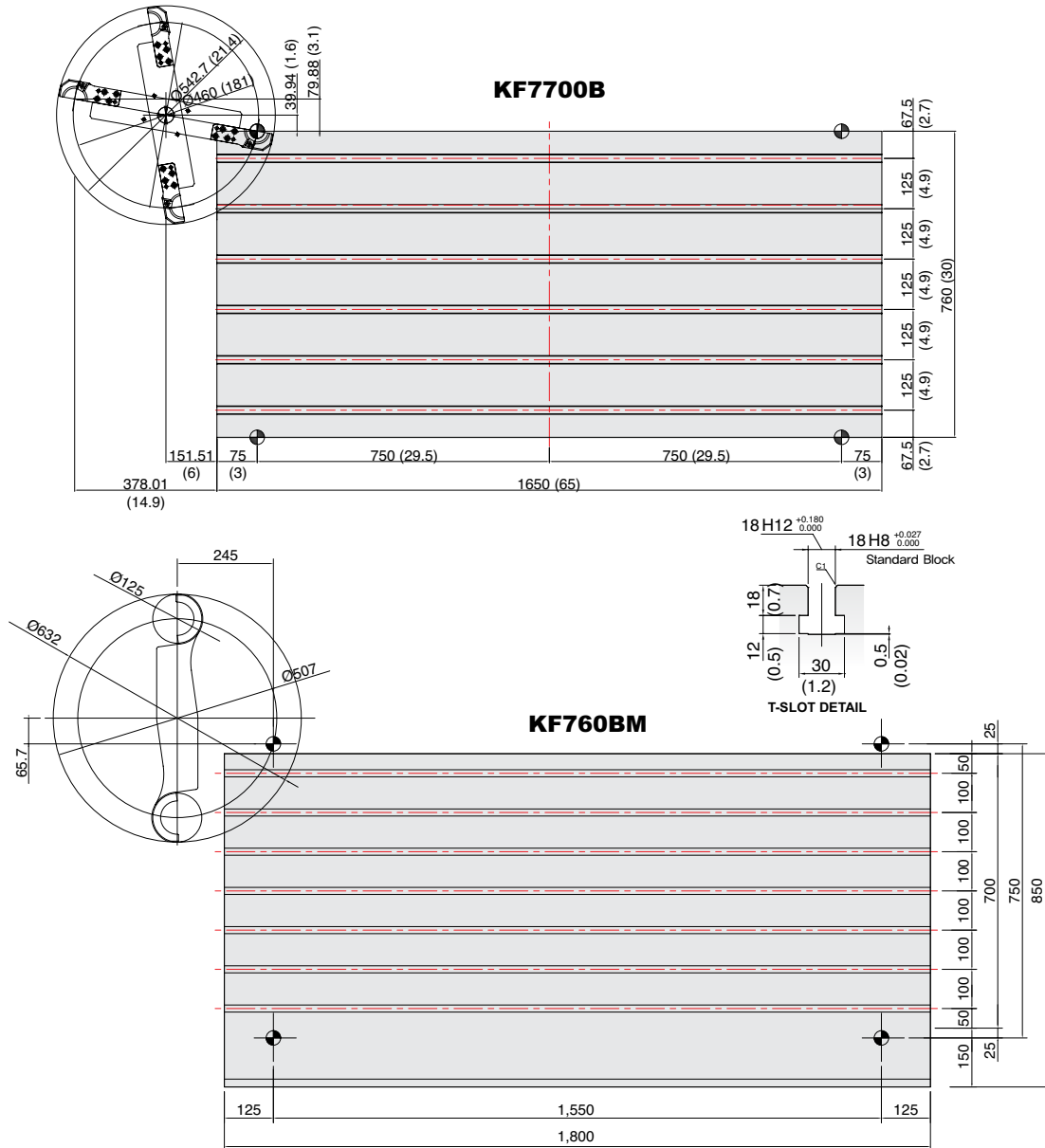




# SPECIFICATIONS

## Table Dimensions

unit : mm(in)



# SPECIFICATIONS

## Specifications

unit : mm(in)

| MODEL         |                                     |             | KF5700B                                      | KF5700B/50  |
|---------------|-------------------------------------|-------------|--|---|
| TABLE         | Table Size (L×W)                    | mm(in)      | 1,300×570 (51.2"×22.4")                      |   |
|               | Maximum Load Capacity               | kg(lb)      | 1,000 (2,205)                                |   |
| SPINDLE       | Spindle Taper                       | -           | NT40   | NT50  |
|               | Spindle RPM                         | r/min       | 8,000 [12,000]                               | 8,000 [8,000]                                     |
|               | Spindle Driving Method              | -           | DIRECT [DIRECT]                              | DIRECT [GEAR]                                     |
|               | Spindle Power Output (Max./Cont.)   | kW(HP)      | 15/11 (20.1/14.7) [18.5/11 (24.8/14.7)]      | 15/11 (20.1/14.7) [18.5/15 (24.8/20.1)]           |
|               | Spindle Torque (Max.)               | N·m(lbf·ft) | 286/143 (210.9/105.5) [118/70 (87/51.6)]     | 286/143 (210.9/105.5) [586.3/475.4 (432.2/350.6)] |
| FEED          | Travel (X/Y/Z)                      | mm(in)      | 1,100/570/520 (43.3"/22.4"/20.5")            |   |
|               | Rapid Traverse Rate (X/Y/Z)         | m/min       | 30/30/24 (1,181/1,181/945)                   |   |
|               | Distance from Table Top to SP. Nose | mm(in)      | 150 (5.9") ~ 670 (26.4")                     | 200 (7.9") ~ 720 (28.3")                          |
|               | Distance from Column to SP. center  | mm(in)      | 680  |   |
|               | Slide Type                          | -           | BOX GUIDE                                    |   |
| ATC           | Number of Tools                     | ea          | 30[40]                                       | 24  |
|               | Tool Shank                          | -           | BBT40  | BBT50   |
|               | Max. Tool Dia. (W.T / W.O)          | mm(in)      | Ø80/Ø125 (3.1"/4.9")<br>[Ø76/Ø125 (3"/4.9")] | Ø125/Ø220 (4.9"/8.7")                             |
|               | Max. Tool Length                    | mm(in)      | 300 (11.8")                                  | 350 (13.8")                                       |
|               | Max. Tool Weight                    | kg(lb)      | 8 (17.6)                                     | 15 (33)   |
|               | Tool Selection Method               | -           | RANDOM                                       |   |
|               | Tool Change Time                    | T-T         | sec  | 1.5   |
| C-C           |                                     | sec         | 3.5  | 5.5   |
| TANK CAPACITY | Coolant Tank                        | ℓ (gal)     | 550 (145.3)                                  |   |
|               | Lubricating Tank                    | ℓ (gal)     | 4 (1)  |   |
|               | Hydraulic Tank                      | ℓ (gal)     | 3.9 (1)                                      |   |
| POWER SUPPLY  | Air Consumption (0.5MPa)            | ℓ /min(gal) | 110 (29)                                     |   |
|               | Electric Power Supply               | kVA         | 26 [30]                                      | 32  |
|               | Thickness of Power Cable            | Sq          | Over 25                                      |   |
|               | Voltage                             | V/Hz        | 220/60 (200/50)                              |   |
| MACHINE       | Floor Space (L×W)                   | mm(in)      | 3,150×2,673 (124"×105.2")                    |   |
|               | Height                              | mm(in)      | 3,089 (121.6")                               | 3,259 (128.3")                                    |
|               | Weight                              | kg(lb)      | 8,500 (18,739)                               |   |
| PC            | Controller                          | -           | HYUNDAI WIA FANUC i Series                   |   |

# SPECIFICATIONS

## Specifications

[ ] : Option

| MODEL         |                                     | KF6700B  | KF6700B/50  |
|---------------|-------------------------------------|--|-------------|
| TABLE         | Table Size (L×W)                    | mm(in) 1,500×670 (59"×26.4")   |             |
|               | Maximum Load Capacity               | kg(lb) 1,300 (2,866)   |             |
| SPINDLE       | Spindle Taper                       | - ΠT40 ΠT50  |             |
|               | Spindle RPM                         | r/min 8,000 [12,000] 8,000 [8,000]   |             |
|               | Spindle Driving Method              | - DIRECT [DIRECT] DIRECT [GEAR]  |             |
|               | Spindle Power Output (Max./Cont.)   | kW(HP) 15/11 (20.1/14.7) [18.5/11 (24.8/14.7)] 15/11 (20.1/14.7) [18.5/11 (24.8/20.1)]                 |             |
|               | Spindle Torque (Max.)               | N·m(lbf·ft) 286/143 (210.9/105.5) [118/70 (87/51.6)] 286/143 (210.9/105.5) [586.3/475.4 (432.2/350.6)] |             |
| FEED          | Travel (X/Y/Z)                      | mm(in) 1,300/670/635 (51.1"/26.4"/25")   |             |
|               | Rapid Traverse Rate (X/Y/Z)         | m/min 30/30/24 (1,181/1,181/945)   |             |
|               | Distance from Table Top to SP. Nose | mm(in) 150 (5.9") ~ 785 (30.9") 200 (7.9") ~ 835 (32.9")   |             |
|               | Distance from Column to SP. center  | mm(in) 730 (28.7")   |             |
|               | Slide Type                          | - BOX GUIDE  |             |
| ATC           | Number of Tools                     | ea 30 [40] 24 [30]   |             |
|               | Tool Shank                          | - BBT40 BBT50  |             |
|               | Max. Tool Dia. (W.T / W.O)          | mm(in) Ø80/Ø125 (3.1"/4.9") [Ø76/Ø125 (3"/4.9")] Ø125/Ø220 (4.9"/8.7")                                 |             |
|               | Max. Tool Length                    | mm(in) 300 (11.8") 350 (13.8")   |             |
|               | Max. Tool Weight                    | kg(lb) 8 (17.6) 15 (33)  |             |
|               | Tool Selection Method               | - RANDOM   |             |
|               | Tool Change Time                    | T-T  | sec 1.5 2.5 |
| C-C           |                                     | sec 3.5 5.5  |             |
| TANK CAPACITY | Coolant Tank                        | ℓ (gal) 590 (155.9)  |             |
|               | Lubricating Tank                    | ℓ (gal) 4 (1)  |             |
|               | Hydraulic Tank                      | ℓ (gal) 3.9 (1)  |             |
| POWER SUPPLY  | Air Consumption (0.5MPa)            | ℓ /min(gal) 110 (29)   |             |
|               | Electric Power Supply               | kVA 26 [30] 32   |             |
|               | Thickness of Power Cable            | Sq Over 25   |             |
|               | Voltage                             | V/Hz 220/60 (200/50)   |             |
| MACHINE       | Floor Space (L×W)                   | mm(in) 3,350×2,822 (131.9"×111.1")   |             |
|               | Height                              | mm(in) 3,204 (1261") 3,374 (132.8")  |             |
|               | Weight                              | kg(lb) 10,000 (22,046)   |             |
| PC            | Controller                          | - HYUNDAI WIA FANUC i Series   |             |

Specifications are subject to change without notice for improvement.

# SPECIFICATIONS

## Specifications

[ ] : Option

| MODEL         |                                     |             | KF7700B                                      | KF7700B/50  |
|---------------|-------------------------------------|-------------|--|---|
| TABLE         | Table Size (L×W)                    | mm(in)      | 1,650×760 (65"×30")                          |   |
|               | Maximum Load Capacity               | kg(lb)      | 1,500 (3,307)                                |   |
| SPINDLE       | Spindle Taper                       | -           | NT40   | NT50  |
|               | Spindle RPM                         | r/min       | 8,000 [12,000]                               | 8,000 [8,000]                                     |
|               | Spindle Driving Method              | -           | DIRECT [DIRECT]                              | DIRECT [GEAR]                                     |
|               | Spindle Power Output (Max./Cont.)   | kW(HP)      | 15/11 (20.1/14.7) [18.5/11 (24.8/14.7)]      | 15/11 (20.1/14.7) [18.5/15 (24.8/20.1)]           |
|               | Spindle Torque (Max.)               | N·m(lbf·ft) | 286/143 (210.9/105.5) [118/70 (87/51.6)]     | 286/143 (210.9/105.5) [586.3/475.4 (432.2/350.6)] |
| FEED          | Travel (X/Y/Z)                      | mm(in)      | 1,500/760/635 (59"/30"/25")                  |   |
|               | Rapid Traverse Rate (X/Y/Z)         | m/min(ipm)  | 30/30/24 (1,181/1,181/945)                   |   |
|               | Distance from Table Top to SP. Nose | mm(in)      | 150 (5.9") ~ 785 (30.9")                     | 200 (7.9") ~ 835 (32.9")                          |
|               | Distance from Column to SP. center  | mm(in)      | 820 (32.3")                                  |   |
|               | Slide Type                          | -           | BOX  |   |
| ATC           | Number of Tools                     | ea          | 30 [40]                                      | 24 [40]   |
|               | Tool Shank                          | -           | BBT40  | BBT50   |
|               | Max. Tool Dia. (W.T / W.O)          | mm(in)      | Ø80/Ø125 (3.1"/4.9")<br>[Ø76/Ø125 (3"/4.9")] | Ø125/Ø220 (4.9"/8.7")                             |
|               | Max. Tool Length                    | mm(in)      | 300 (11.8")                                  | 350 (13.8")                                       |
|               | Max. Tool Weight                    | kg(lb)      | 8 (17.6)                                     | 15 (33)   |
|               | Tool Selection Method               | -           | RANDOM                                       |   |
|               | Tool Change Time                    | T-T         | sec  | 1.5   |
| C-C           |                                     | sec         | 3.5  | 5.5   |
| TANK CAPACITY | Coolant Tank                        | ℓ (gal)     | 620 (163.7)                                  |   |
|               | Lubricating Tank                    | ℓ (gal)     | 4 (1)  |   |
|               | Hydraulic Tank                      | ℓ (gal)     | 3.9 (1)                                      |   |
| POWER SUPPLY  | Air Consumption (0.5MPa)            | ℓ /min(gal) | 110 (29)                                     |   |
|               | Electric Power Supply               | kVA         | 26 [30]                                      | 32  |
|               | Thickness of Power Cable            | Sq          | Over 25                                      |   |
|               | Voltage                             | V/Hz        | 220/60 (200/50)                              |   |
| MACHINE       | Floor Space (L×W)                   | mm(in)      | 3,780×3,037 (148.8"×119.6")                  |   |
|               | Height                              | mm(in)      | 3,306 (130")                                 | 3,476 (136.9")                                    |
|               | Weight                              | kg(lb)      | 13,000 (28,660)                              |   |
| PC            | Controller                          | -           | HYUNDAI WIA FANUC i Series                   |   |



# SPECIFICATIONS

## Specifications

[ ] : Option

| MODEL         |                                     | KF760BM     |                                 |
|---------------|-------------------------------------|-------------|---------------------------------|
| TABLE         | Table Size (L×W)                    | mm(in)      | 1,800×700 (70.9"×27.6")         |
|               | Maximum Load Capacity               | kg(lb)      | 2,000 (4,409)                   |
| SPINDLE       | Spindle Taper                       | -           | Big Plus #50                    |
|               | Spindle RPM                         | r/min       | 12,000                          |
|               | Spindle Driving Method              | -           | BUILT-IN                        |
|               | Spindle Power Output (Max./Cont.)   | kW(HP)      | 30/25 (40.2/33.5)               |
|               | Spindle Torque (Max.)               | N·m(lbf·ft) | 420/238 (309.7/175.5)           |
| FEED          | Travel (X/Y/Z)                      | mm(in)      | 1,550/760/720 (61"/29.9"/28.3") |
|               | Rapid Traverse Rate (X/Y/Z)         | m/min(ipm)  | 16/16/12 (630/630/472.4)        |
|               | Distance from Table Top to SP. Nose | mm(in)      | 200~920 (7.9"/36.2")            |
|               | Distance from Column to SP. center  | mm(in)      | 790 (31.1")                     |
|               | Slide Type                          | -           | BOX GUIDE                       |
| ATC           | Number of Tools                     | ea          | 30 [40]                         |
|               | Tool Shank                          | -           | BBT50                           |
|               | Max. Tool Dia. (W.T / W.O)          | mm(in)      | ∅125/∅240 (4.9"/9.4")           |
|               | Max. Tool Length                    | mm(in)      | 300 (11.8")                     |
|               | Max. Tool Weight                    | kg(lb)      | 25 (55)                         |
|               | Tool Selection Method               | -           | RANDOM                          |
|               | Tool Change Time                    | T-T<br>C-C  | sec<br>sec                      |
| TANK CAPACITY | Coolant Tank                        | ℓ (gal)     | 400 (105.7)                     |
|               | Lubricating Tank                    | ℓ (gal)     | 3.1 (0.8)                       |
|               | Hydraulic Tank                      | ℓ (gal)     | 24 (6.3)                        |
| POWER SUPPLY  | Air Consumption (0.5MPa)            | ℓ /min(gal) | 250 (66)                        |
|               | Electric Power Supply               | KVA         | 35                              |
|               | Thickness of Power Cable            | Sq          | Over 25                         |
|               | Voltage                             | V/Hz        | 220/60 (200/50)                 |
| MACHINE       | Floor Space (L×W)                   | mm(in)      | 4,040×4,235 (159"×166.7")       |
|               | Height                              | mm(in)      | 3,550 (139.8")                  |
|               | Weight                              | kg(lb)      | 14,500 (31,967)                 |
| NC            | Controller                          | -           | FANUC 31i-B                     |

Specifications are subject to change without notice for improvement.

# CONTROLLER

## HYUNDAI WIA FANUC i Series

[ ] : Option ☆ Needed technical consultation

| Controlled axis / Display / Accuracy Compensation |  |
|---|--|
| Control axes                                      | 3 axes (X, Y, Z)<br>4 axes (X, Y, Z, B)  |
| Simultaneously controlled axes                    | 3 axes [Max. 4 axes]   |
| Least setting Unit                                | X, Y, Z axes : 0.001 mm (0.0001 inch)<br>B axes : 1 deg [0.001] deg  |
| Least input increment                             | X, Y, Z axes : 0.001 mm (0.0001 inch)<br>B axes : 1 deg [0.001] deg  |
| Inch / Metric conversion                          | G20 / G21  |
| High response vector control                      |  |
| Interlock   | All axes / Each axis   |
| Machine lock                                      | All axes   |
| Backlash compensation                             | ± 0 ~ 9999 pulses<br>(Rapid traverse / Cutting feed)   |
| Position switch                                   |  |
| LCD / MDI   | 10.4 inch color LCD  |
| Feedback  | Absolute motor feedback  |
| Stored stroke check 1                             | Over travel  |
| Stored pitch error compensation                   |  |
| Operation   |  |
| Automatic operation (Memory)                      |  |
| MDI operation                                     |  |
| DNC operation                                     | Needed DNC software / CF card  |
| Program restart                                   |  |
| Wrong operation prevention                        |  |
| Program check function                            | Dry run, Program check, Z axis Machine lock<br>Stored limit check before move  |
| Single block                                      |  |
| Search function                                   | Program Number / Sequence Number   |
| Handle interruption                               |  |
| Interpolation functions                           |  |
| Nano interpolation                                |  |
| Positioning                                       | G00  |
| Linear interpolation                              | G01  |
| Circular interpolation                            | G02, G03   |
| Exact stop mode                                   | Single : G09, Continuous : G61   |
| Dwell   | G04, 0 ~ 9999.9999 sec   |
| Skip  | G31  |
| Reference position return                         | 1st reference : G28<br>2nd reference : G30<br>Ref. position check : G27  |
| Single direction positioning                      | G60  |
| Thread synchronous cutting                        | G33  |
| Helical interpolation                             | Circular + Linear 2 axes (Max.)  |
| Feed function / Acc. & Dec. control               |  |
| Manual feed                                       | Rapid traverse<br>Jog : 0 ~ 5,000mm/min (197 ipm)<br>Manual handle : x1, x10, x100 pulses<br>Reference position return |
| Cutting Feed command                              | Direct input F code  |
| Feedrate override                                 | 0 ~ 200% (10% Unit)  |
| Rapid traverse override                           | F0% (F1%), F25%, F50%, F100%   |
| Override cancel                                   |  |
| Feed per minute                                   | G94  |
| Feed per revolution                               | G95  |
| Cylindrical interpolation                         | G07.1  |
| Inverse time feed                                 | G93  |
| Look-ahead block                                  | 20 blocks (AI APC)   |
| Program input                                     |  |
| Tape Code   | EIA / ISO  |
| Optional block skip                               | 1 ea   |
| Absolute / Incremental program                    | G90 / G91  |
| Program stop / end                                | M00, M01 / M02, M30  |
| Maximum command unit                              | ± 999,999.999 mm (± 99,999.9999 inch)  |
| Plane selection                                   | X-Y : G17 / Z-X : G18 / Y-Z : G19  |
| Workpiece coordinate system                       | G52, G53, 48 pairs (G54.1 P1 ~ 48)   |
| Manual absolute                                   | Fixed ON   |
| Programmable data input                           | G10  |
| Sub program call                                  | 10 folds nested  |
| Custom macro                                      | #100 ~ #199, #500 ~ #999   |
| G code system                                     | A  |

| Program input                               |   |
|---|---|
| Programmable mirror image                   | G51.1, G50.1  |
| G code preventing buffering                 | G4.1  |
| Optional chamfering corner R                |   |
| Polar coordinate command                    | G15, G16  |
| Scaling                                     | G50, G51  |
| Coordinate system rotation                  | G68, G69  |
| Auxiliary function / Spindle speed function |   |
| Auxiliary function                          | M & 4 digit   |
| Spindle speed function                      | S & 5 digit, Binary output  |
| Spindle override                            | 0% ~ 150% (10% Unit)  |
| Spindle orientation                         | M19   |
| Retraction for rigid tapping                |   |
| FSSB high speed rigid tapping               |   |
| Tool function / Tool compensation           |   |
| Tool function                               | Max. T8 digit   |
| Tool life management                        |   |
| Tool offset pairs                           | 400 pairs   |
| Tool nose / radius compensation             | G40, G41, G42   |
| Tool length offset                          | G43, G44, G49   |
| Tool offset memory C                        | Tool geometry and wear (Cutter and tool length)                         |
| Tool length measurement                     | Z axis Input C  |
| Editing function                            |   |
| Part program storage size                   | 1280m (512KB)   |
| No. of registerable programs                | 400 ea  |
| Program protect                             |   |
| Background editing                          |   |
| Extended part program editing               | Copy, move and change of NC program                                     |
| Memory card program edit                    |   |
| Data input / output & Interface             |   |
| I/O interface                               | RS 232C serial port, CF card, USB memory<br>Embedded Ethernet interface |
| Screen hard copy                            |   |
| External message                            |   |
| External key input                          |   |
| External workpiece number search            |   |
| Automatic data backup                       |   |
| 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.   |
| Power consumption monitoring                | Spindle & Servo   |
| Spindle / Servo setting screen              |   |
| Multi language display                      | Support 20 languages  |
| Display language switching                  | Selection of 5 optional Languages                                       |
| LCD Screen Saver                            | Screen saver  |
| Option                                      |   |
| Additional optional block skip              | 9 ea ☆  |
| Fast ethernet                               | Needed option board   |
| Data server                                 | Needed option board   |
| Protection of data at 8 levels              |   |
| Additional Axis                             |   |
| Manual Guide i                              | Conversational auto program   |
| Manual handle feed                          | 2/3 units   |
| Addition of custom macro                    | #100 ~ #199,<br>#500 ~ #999, #98000 ~ #98499                            |
| Tool management function                    |   |
| Part program storage size                   | 5120m (2MB)   |
| No. registerable programs                   | Max. 1000 EA  |
| Add. Workpiece                              | Max. 300 pairs (G54.1 P1 ~ P300)  |
|   | 40 blocks   |
| AICC II                                     | 200 blocks<br>400 blocks ☆  |

Figures in inch are converted from metric values.

The FANUC controller specifications are subject to change based on the policy of company CNC supplying.

# CONTROLLER

## FANUC 31i-B

[ ]: Option ☆ Needed technical consultation

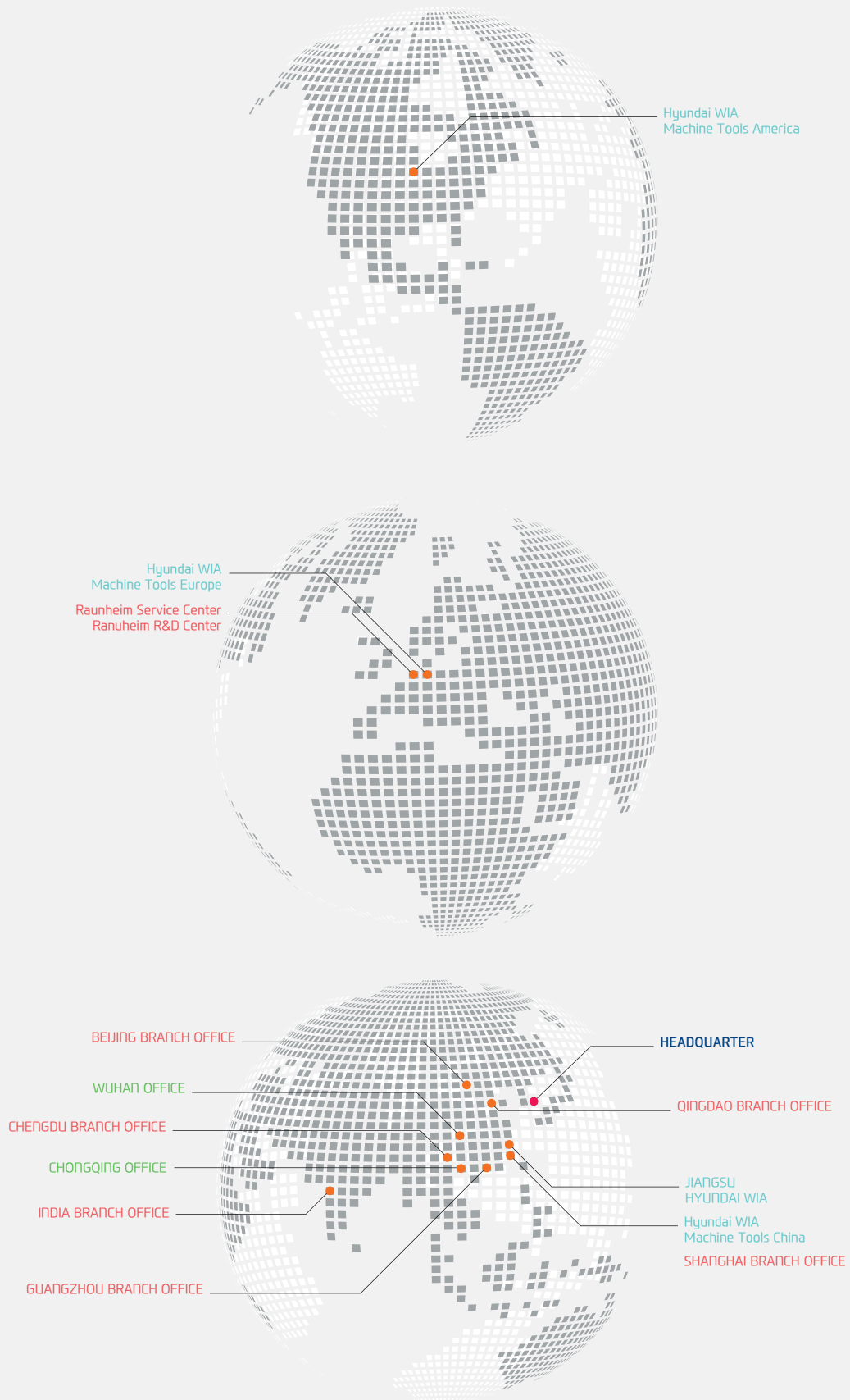
| Controlled axis / Display / Accuracy Compensation |   |
|---|---|
| Control axes                                      | 3 axes (X, Y, Z) 4 axes (X, Y, Z, B)                                    |
| Simultaneously controlled axes                    | 3 axes [Max. 4 axes]  |
| Least setting Unit                                | X, Y, Z axes : 0.001 mm (0.0001 inch)                                   |
|   | B axes : 1 deg [0.001] deg  |
| Least input increment                             | X, Y, Z axes : 0.001 mm (0.0001 inch)                                   |
|   | B axes : 1 deg [0.001] deg  |
| Inch / Metric conversion                          | G20 / G21   |
| High response vector control                      |   |
| Interlock   | All axes / Each axis  |
| Machine lock                                      | All axes  |
| Backlash compensation                             | ± 0 ~ 9999 pulses<br>(Rapid traverse / Cutting feed)                    |
| Position switch                                   |   |
| LCD / MDI   | 10.4 inch color LCD   |
| Feedback  | Absolute motor feedback   |
| Stored stroke check 1                             | Over travel   |
| Stored pitch error compensation                   |   |
| Operation   |   |
| Automatic operation (Memory)                      |   |
| MDI operation                                     |   |
| DNC operation                                     | Needed DNC software / CF card   |
| Program restart                                   |   |
| Wrong operation prevention                        |   |
| Program check function                            | Dry run, Program check<br>Z axes Machine lock, Stroke check before move |
| Single block                                      |   |
| Search function                                   | Program Number / Sequence Number  |
| Interpolation functions                           |   |
| Pano interpolation                                |   |
| Positioning                                       | G00   |
| Linear interpolation                              | G01   |
| Cylindrical interpolation                         | G02, G03  |
| Exact stop mode                                   | Single : G09, Continuous : G61  |
| Dwell   | G04, 0 ~ 9999.9999 sec  |
| Skip  | G31   |
| Reference position return                         | 1st reference, G28  |
|   | 2nd reference, G27  |
|   | Ref. position check, G30  |
| Thread synchronous cutting                        | G33   |
| Helical interpolation                             | Circular + Linear interpolation 2 axes(max.)                            |
| Feed function / Acc. & Dec. control               |   |
| Manual feed                                       | Rapid traverse  |
|   | Jog : 0~5,000mm/min (197 ipm)   |
|   | Manual handle : x1, x10, x100 pulses                                    |
|   | Reference position return   |
|   | Direct input F code   |
| Cutting Feed command                              | Direct input F code   |
| Feedrate override                                 | 0 ~ 200% (10% Unit)   |
| Rapid traverse override                           | F0% (F1%), F25%, F50%, F100%  |
| Override cancel                                   |   |
| Feed per minute                                   | G94   |
| Feed per revolution                               | G95   |
| Look-ahead block                                  | 40 Block  |
|   | 200 Block (Mold)  |
| Program input                                     |   |
| Tape Code   | EIA / ISO   |
| Optional block skip                               | 1 ea  |
| Absolute / Incremental program                    | G90 / G91   |
| Program stop / end                                | M00, M01 / M02, M30   |
| Maximum command unit                              | ± 999,999.999 mm (± 99,999.9999 inch)                                   |
| Plane selection                                   | X-Y, G17 / Z-X, G18 / Y-Z, G19  |
| Workpiece coordinate system                       | G52, G53, 6 pairs (G54 ~ G59)   |
| Manual absolute                                   | Fixed ON  |
| Programmable data input                           | G10   |
| Sub program call                                  | 10 folds nested   |
| Custom macro                                      | #100 ~ #149, #500 ~ #549  |
| G code system                                     | A   |
| Programmable mirror image                         | G51.1, G50.1  |
| G code preventing buffering                       | G4.1  |
| Including Chamfering / Corner R                   |   |
| Canned cycle                                      | G73, G74, G76, G80 ~ G89  |
| Coordinate rotation                               | G68, G69  |

| Auxiliary function / Spindle speed function |   |
|---|---|
| Auxiliary function                          | M & 4 digit   |
| Level-up M Code                             | Multi / Bypass M code   |
| Spindle speed command                       | S & 5 digit, Binary output  |
| Spindle override                            | 0% ~ 150% (10% Unit)  |
| Spindle orientation                         | M19   |
| FSSB high speed rigid tapping               |   |
| Tool function / Tool compensation           |   |
| Tool function                               | Max. T 8 digit  |
| Tool life management                        | 256 pairs ☆   |
| Tool offset pairs                           | 64 pairs  |
| Tool nose radius compensation               | G40, G41, G42   |
| Tool nose length compensation               | G43, G44, G49   |
| Tool offset memory C                        | Tool length, diameter, abrasion(length, diameter)                       |
| Tool length measurement                     | Z axes Input C  |
| Editing function                            |   |
| Part program storage size                   | 640m (256KB)  |
| No. of registerable programs                | 500 ea  |
| Program protect                             |   |
| Background editing                          |   |
| Extended part program editing               | Copy, move and change of NC program                                     |
| Memory card program edit                    |   |
| Data input / output & Interface             |   |
| I/O interface                               | RS 232C serial port, CF card, USB memory<br>Embedded Ethernet interface |
| Screen hard copy                            |   |
| External message                            |   |
| External key input                          |   |
| External workpiece number search            |   |
| Automatic data backup                       |   |
| Setting, display and diagnosis              |   |
| Self-diagnosis function                     |   |
| History display                             | 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.   |
| Power consumption monitoring                | Spindle & Servo   |
| Spindle / Servo setting screen              |   |
| Multi language display                      | Support 20 languages  |
| Display language switching                  | Selection of 5 optional Languages                                       |
| LCD Screen Saver                            | Screen saver  |
| Processing select                           | Speed/rigidity setting  |
| Option                                      |   |
| Additional optional block skip              | 9 ea ☆  |
| Fast ethernet                               | Needed option board   |
| Data server                                 | Needed option board   |
| Protection of data at 8 levels              |   |
| Sub Spindle control                         |   |
| Polar coordinate command                    | G15, G16  |
| Polar coordinate interpolation              | G12.1, G13.1  |
| Cylindrical interpolation                   | G07.1   |
| One-way positioning                         | G60   |
| Stored stroke check 2, 3                    |   |
| Inverse-time feed                           | G93   |
| Scaling                                     | G50, G51  |
| Manual guide i                              | Conversational auto program   |
| Handle interrupt                            |   |
| Manual handle feed                          | 2/3 units   |
| Additional custom macro variables           | #100~#199, #500~#999  |
|   | #100~#199, #500~#999, #98000~#98499                                     |
| Retraction for rigid tapping                |   |
| Tool management function                    |   |
| Tool offset number                          | Max. 2000 pair ☆  |
| Program storage capacity                    | 512KB ~ 8MB ☆   |
| Program registration number                 | Max. 4000 ea ☆  |
| Additional work coordinate                  | 48 pair (G54.1 P1 ~ P48)  |
| AICC II                                     | 200 block   |
|   | 400 / 600 / 1000 block ☆  |

Figures in inch are converted from metric values.

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# GLOBAL NETWORK



# GLOBAL NETWORK



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