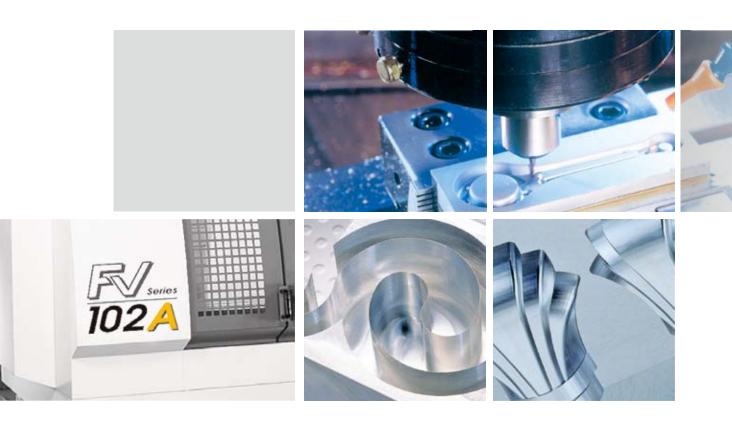


## HIGH SPEED HIGH PERFORMANCE MACHINING VERTICAL CENTER















Micro dril

# Series HIGH SPEED B

## HIGH SPEED HIGH PERFORMANCE MACHINING VERTICAL CENTER

#### The YEONG CHIN FV-Series

High-Speed, High-Power Vertical Machining Centers are specially designed for industries that demand high precision, high productivity application such as automotive, aerospace, electronic, and job shop industries.

#### With our unique IDD (Isolated Direct Drive)

Spindle Design and our ultra-wide, ultra-rigid internally ribbed construction, our FV-Series delivers exceptional cutting finish and accuracy.

With the addition of ATC system that changes tool-to-tool in 1 second for 30# spindle, and 3.5 seconds for 40# spindle, the newly developed NR type linear motion guide ways from THK, and the FANUC high responsive AC servo units, our FV-Series will more than pay for its value in no time, and we will bring you success.



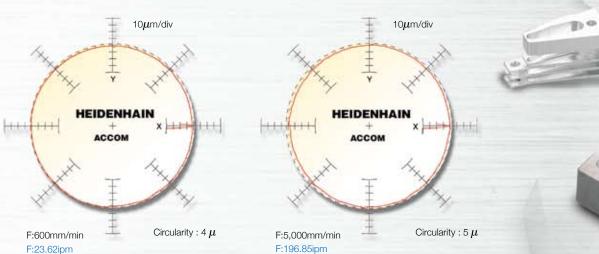


<sup>\*</sup> Optional functions under FANUC 18MC or 18 i-MB control system.

## The most cost-effective solution in high-speed, high-precision mold & die machining.

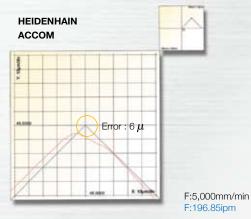
0.1 µm High Resolution Modular (HRM)\* + Simultaneously Differential Feedrate Control (SDFC)\*
Take a YCM FV-Series Vertical Machining Center with the HRM and SDFC functions, conduct tests and then check by Heidenhain Grid Encoder with the following results, which prove
HRM and SDFC not only enhance the feed rate control but also keep good accuracy.

Conduct R = 40mm 1.58" circular interpolation on XY plane with 600mm/min 23.62ipmand 5,000mm/min 196.85ipm cutting feed respectively.



 Conduct 45mm 1.77" linear interpolation on XY plane with 600mm/min 23.62ipm and 5000mm/min 196.85ipm cutting feed respectively.







## Unique Spindle IDD Design

Unique direct coupled spindle design could isolate heat source, reduce the thermal deformation, increase the spindle precision and prolong spindle life.

Isolated polyurethane flexible coupling is used between motor and spindle.

Optional spindle cooling system could achieve better accuracy control.

Direct power transfer from spindle shaft to the cutting edge, ensures the power efficiency.

Detecting the spindle speed from the build-in encoder of spindle ensures the best performance of rigid tapping.

## Hi-Speed, Hi-Power Spindle Design

#### FV56T (30#)

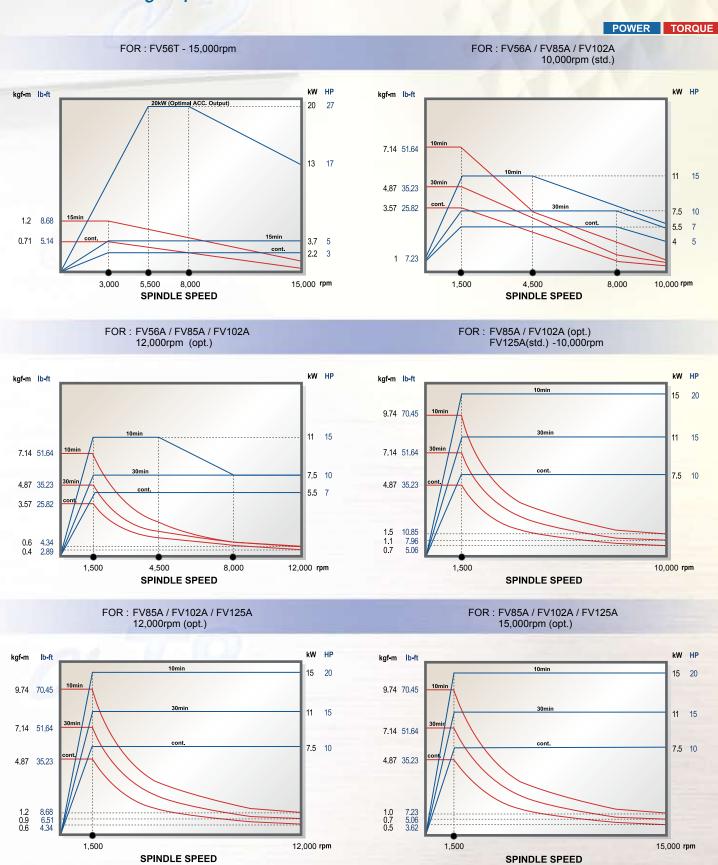
- Ceramic bearings are applied on 15000rpm spindle, with features of lighter weight, low centrifugal force, high rigidity, low coefficient of heat expansion, so as to achieve better accuracy and spindle life.
- High horse power design, maximum output for acceleration can achieve 20kW 27HP.
- High torque, low inertia form 0 to 6000rpm takes only 0.3 sec to reach. Excellent in mass drilling and tapping works.
- The high precision spindle bearing system, with ID. 45mm, is to match the small & precise mold making requirements.
- Max. rigid tapping speed: 6,000rpm.

#### FV56A/85A/102A/125A (40#)

- The 10000rpm spindle deploys precision ceramic ball bearings of light mass, low centrifugal force, low swell factor, but high rigidity, which assure the optimal accuracy and spindle life span.
- Oil-Air lubrication 12,000rpm or 15,000rpm spindle is available for option.



## Various High-Speed Spindle Options for Selection to Meet the Utmost Machining Requirements.



# High Efficiency Utmost performance Integration, Solution & Automation

#### Reliable ATC Unit

- Fast and reliable roller gear cam ATC allows ATC time in 1 second (for FV56T), and 3.5 secods (for FV56A/FV85A/ FV102A/FV125A), lowers the idle time and enhances the machining efficiency.
- The ATC units were running tested more than million times before their mass production to ensure high reliability.





#### Complete chips disposal system

- Ensure the cleanness of machining environment.
   Optional flush coolant can be used to prove the chips disposal efficiently.
- Screw type chip conveyor makes the chips disposal more easily & efficiently. (FV85A / FV102A)
- Complete set of the Y-axis back side plate well protects the guide-way for durable operation.



## Shuttle Type Automatic Pallet Changer (FV102A, Option)

- APC's swivel arm is driven by X-axis servo motor with unique rack transmission design, features fast and accurate pallet change mechanism.
- APC time is around 15 seconds.
- Over sized taper pins are applied to ensure backlash-free positioning and rigid clamping on the pallet.
- APC feed rate is adjustable to appropriate speed for different work pieces' demand.



## Advanced APC Design (FV56T/A, Option)

- Hi-speed rotary auto-pallet changer.
- APC time takes 9 seconds only.
- Reliable rotary mechanism driven by servo motor reducer achieves quick APC speed.
- Rotary speed is adjustable to ensure better stability when heavy loading on the pallet.
- Shot flush coolant could clean the positioning block automatically.
- The minimum floor space required, saving floor space and saving money.





### Super-Accuracy & Rigidity Construction for High Speed Epoch

- Tough and durable MEEHANITE castings deliver exceptional cutting stability and consistent accuracy the massive, rigid internally ribbed construction reduces damping effect for superb part finishing.
- The extra wide column base and machine base maximize the cutting rigidity, and enhance machine stability during heavy-duty machining.
- Hardened & ground ballscrews are precisely pre-tensioned at both ends, supported by angular contact thrust bearings, and directly coupled with high responsive AC servomotors of backlash-free for outstanding positioning repeatability and accuracy during long machining cycles.
- All axes utilize the newly developed NR type linear motion guide ways from THK of its superior rigidity, low friction, low noise, thus to assure much smoother movement in high-speed traverse.
- All linear motion guide ways are mounted on the very fine surface for maximum surface contact and exceptional cutting rigidity and stability.





| ■ FV 56 / I FV 56 A ACCURACY   |   |                    |                          |  |  |
|--|---|--------------------|--------------------------|--|--|
| Standard Tolerances  |   | ISO 10791-4        | JIS B 6338<br>(1985)     |  |  |
| Axial Travel   |   | Full Length        | -                        |  |  |
| Positioning A  | 4 | 0.010mm (0.00039") | 0.003/300mm(0.00012"/12) |  |  |
| Repeatability F  | ₹ | 0.007mm (0.00028") | ±0.002mm(±0.00008")      |  |  |
| VDI/DGQ3441 is equivalent to A of ISO10791-4, and PS is equivalent to R. All values shown above are measured for machine in good air conditioned environments. |   |                    |                          |  |  |

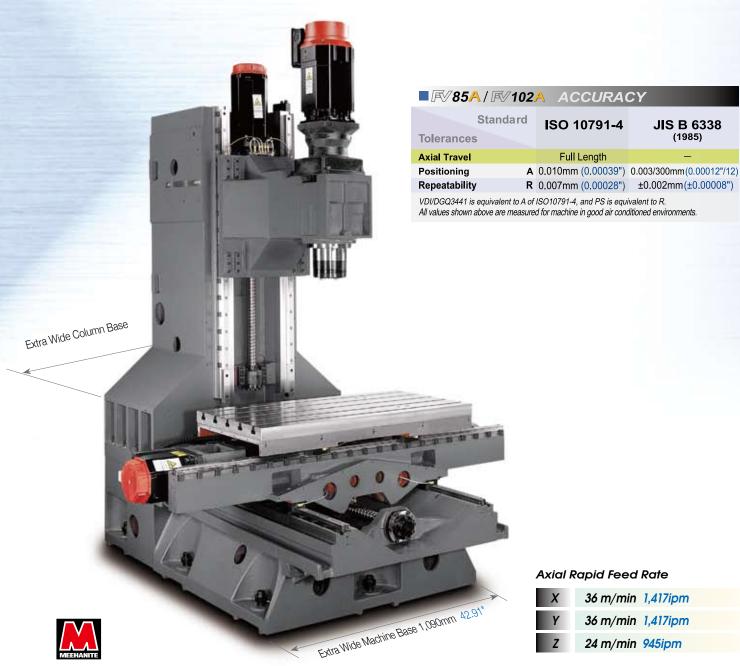
#### Axial Rapid Feed Rate (opt.)

| X | 36 (48) m/min | 1,417 (1,890) ipm |
|---|---------------|-------------------|
| Y | 36 (48) m/min | 1,417 (1,890) ipm |
| Z | 24 (48) m/min | 945 (1,890) ipm   |



#### Super-Accuracy & Rigidity Construction for High Speed Epoch

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- 🌖 Hardened & ground ballscrews are precisely pre-tensioned at both ends, supported by angular contact thrust bearings, and directly coupled with high responsive AC servomotors of backlash-free for outstanding positioning repeatability and accuracy during long machining cycles.
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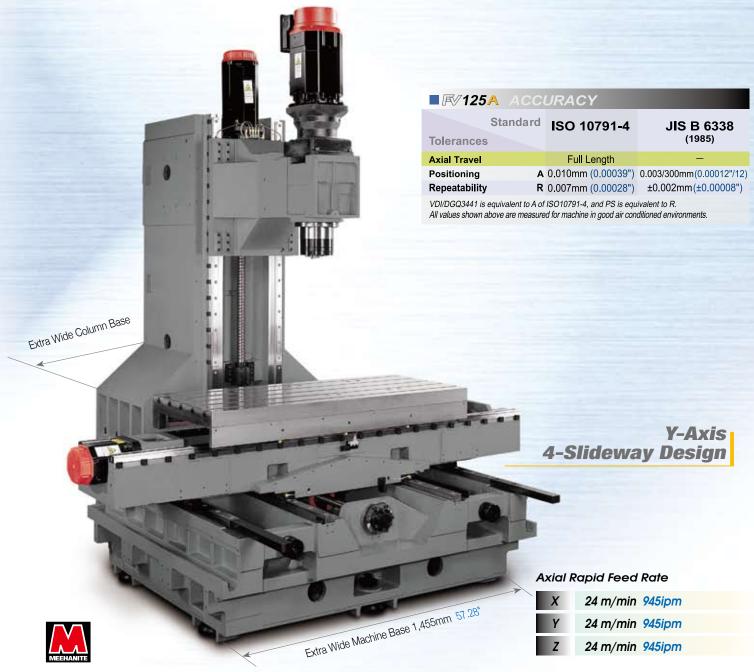
| X | 36 m/min 1,417ipm |  |
|---|-------------------|--|
| Y | 36 m/min 1,417ipm |  |
| Z | 24 m/min 945ipm   |  |

(1985)



### Super-Accuracy & Rigidity Construction for High Speed Epoch

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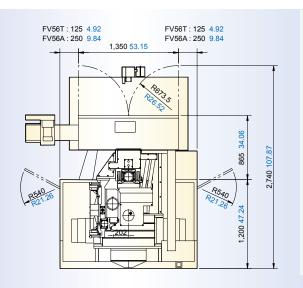


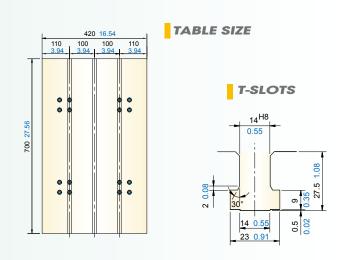


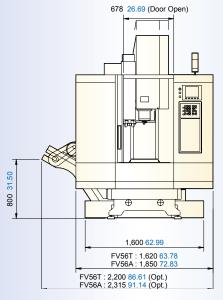
## 567/56A DIMENSIONS

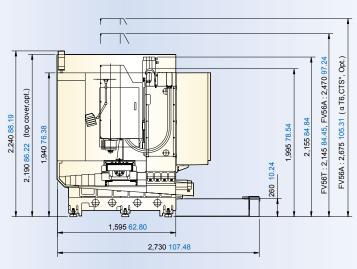












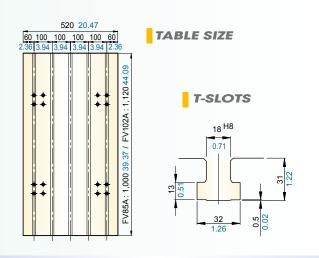


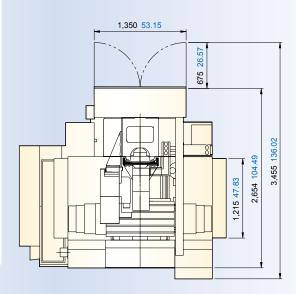
## Series 85A/102A

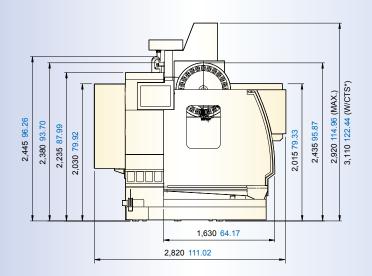
## DIMENSIONS

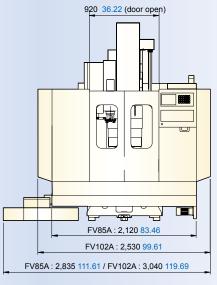






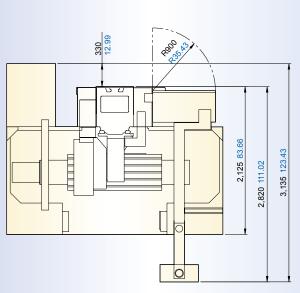


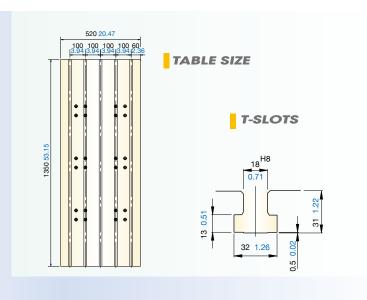


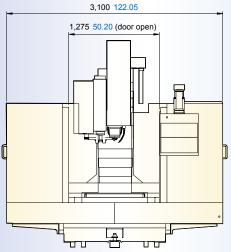


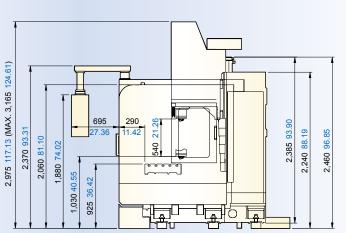












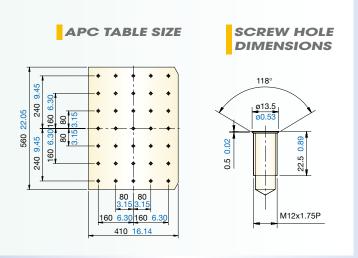


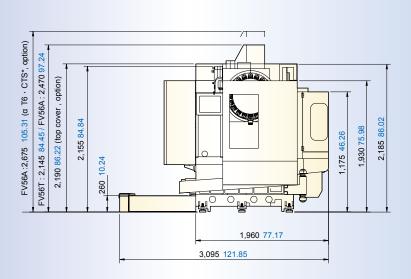
## Series 567/56AAPC

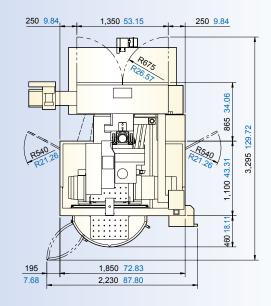
## DIMENSIONS

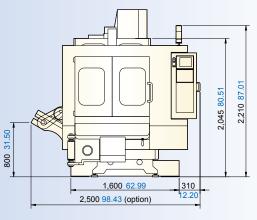


| Relevant Specifications of APC (Option)        |         |                     |              |  |  |  |  |
|--|---------|---------------------|--------------|--|--|--|--|
| Model  |         | FV567               | FV56A        |  |  |  |  |
| Pallet Size                                    | mm inch | 560 x 410 2         | 2.05 x 16.14 |  |  |  |  |
| Table Load Capacity                            | kg lb   | 120                 | 265          |  |  |  |  |
| Distance Between Spindle<br>Nose and Table Top | mm inch |                     | 475<br>18.70 |  |  |  |  |
| Axial Rapid Feed Rate                          | m/min   | 36 / 36 / 24        |              |  |  |  |  |
| (X / Y / Z)                                    | ipm     | 1,417 / 1,417 / 945 |              |  |  |  |  |
| Machine Weight                                 | kg lb   | 3,630 8,003         | 3,850 8,488  |  |  |  |  |



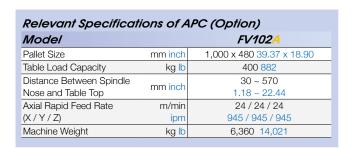




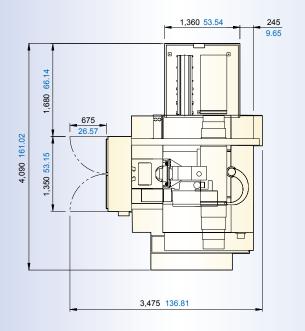


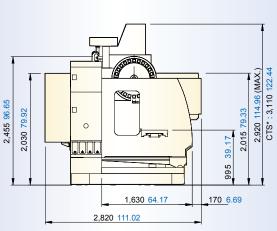


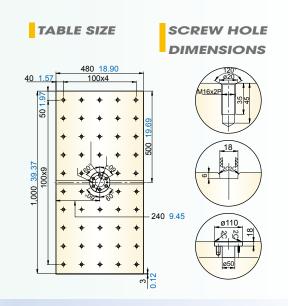
## **DIMENSIONS**

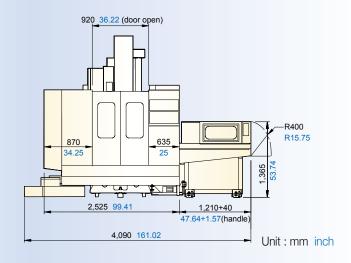






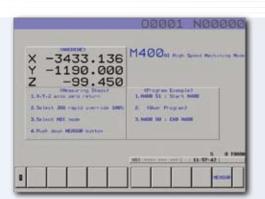


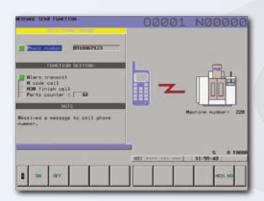












## **Multi-function Display**

Easily select multiple windows from the following list of display for your monitoring needs.

■ G-Modal Status ■ Tool Data ■ Date and Time
■ M-Code Status ■ Work Coordination ■ Controller Running Hours
■ Spindle Status ■ Parts Count ■ Spindle Load
■ Feed Rate ■ Machining Hours ■ Function Display

## **High Speed Machining Mode (M400)**

Artificially intelligent machining function that is developed from accumulation of all YCM knowledge and experience on high speed die mold machining to achieve the fastest cycle time with best machining results.

Machining efficiency improved by 25+% without sacrificing machining accuracy.

Efficiency Increased by:



## Wireless Message Notification (Optional)

Integrating GSM communication and CNC technology, YCM developed the WMN system for wireless notification of machine and work status report.



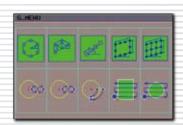
## MXP-200*i*

## YCM CONTROL

### by **FANUC**

- High Performance AC Digital Servo & Spindle Drives
- High Responsive Vector Drives Technology for High Precision Machining
- Powerful Servo Motors with Super Precision Absolute Positioning Encoders
- High-Resolution 10.4" LCD Color Monitor with Dynamic Graphic Display
- Manual Guide i Conversational Function Greatly Reduces Programming and Setup Time
- Built-in Al NANO Contour Control and High-Speed JERK Function
- High Speed Rigid Tapping, Helical Interpolation, Custom Macro B, and Tool Path Graphics
- Large Program Capacity with 1,280 Meters of Memory
- Full Alphanumeric Keyboard Allows Easy Program Editing
- PCMCIA Slot for Easy File Transfer and Memory Expansion
- RS-232C Interface Ready for Fast Program Transfer
- Combined Uses of Many High Performance Microprocessors, High-Speed Memory and the Adoption of Multi-CPU System for Super High Speed Control Processing
- The Most Reliable CNC Control in The World, with Failure Rate of Under 0.01 Per Unit Per Month





#### G-Menu

User-friendly G-menu function provides multiple machining cycles that greatly simplifies programming steps.



#### Calculator Function

Convenient calculator function provides fast calculation and setting of workpiece offsets.



#### Easy Shop-floor Programming Manual Guide *i*

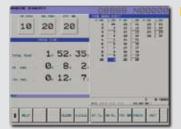
Easy to use conversational software offers convenience of part programming right on the shop-floor with 3-D graphical display and full simulation function.



#### Counter Function

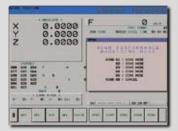
Allows user to easily keep track on number of work pieces with:

- Main Counter
- Periodical Counter
- Daily Counter
- Over Cycle Alarm



#### Intelligent Tool Data Management

Comprehensive tool data management function that allows operators to conveniently monitor and efficiently manage all position in tool magazine.



## High Performance Machining Mode - M300

High performance mode with 5 settings that allows user to select for the best machining results.



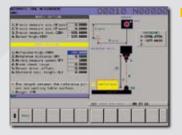
#### Pop-Up Alarm Display

Detailed troubleshooting procedures are automatically displayed when machine alarm occurs that allows users to quickly restore machine status to minimize downtime.



#### Intelligent Maintenance Reminder

Pre-set maintenance schedules are programmed to remind operators to periodically inspect and maintain to prolong machine life.



## Automatic Tool Length Measurement

Pre-set macros and graphical procedure are provided for operation of automatic tool length measurement function.



## Manual Tool Length Measurement

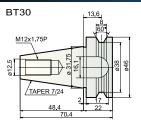
Easy setup of tool length measurement, provides convenient setting of tool offsets data from one tool to the other.

## **SPECIFICATIONS**

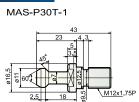
| SPINDLE         FV 56 T         FV 56 A         FV 85 A         FV 102 A         FV 125           Spindle Speed (Opt.)         rpm         45~15000         45~10000 [12000]         45~10000 [12000/15000]           Spindle Motor (Opt.)         2.2/3.7kW 3/5HP         5.5/7.5/11kW 7/10/15 [10/15/20]HP         7.5/11/15 kW 7/10/15 [10/15/20]HP         7.5/11/15 kW 7/10/15 [10/15/20]HP         7.5/11/15 kW 7/10/15 [10/15/20]HP         85/11/15 kW 7/10/15 [10/15/20]HP         9.5/11/15 kW 7/10/15 kW 7/  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|
| Spindle Motor (Opt.)       2.2/3.7kW 3/5HP       5.5/7.5/11kW 7/10/15HP       5.5/7.5/11 [7.5/11/15]kW 7/10/15 [10/15/20]HP       7.5/11/15lkW 7/10/15 [10/15/20]HP       10/15/20le         Spindle Taper       BT30       BT40       BT40       BT40         Front Bearing Diameter       Ø45mm Ø1.77"       Ø70mm Ø2.76"       Ø70mm Ø2.76"   |  |  |  |  |  |  |
| Spindle Motor (Opt.)    Z.2/3.7kW 3/5HP   7/10/15HP   7/10/15 [10/15/20]HP   10/15/20HP  |  |  |  |  |  |  |
| Front Bearing Diameter Ø45mm Ø1.77" Ø70mm Ø2.76" Ø70mm Ø2.76"  |  |  |  |  |  |  |
| □TRAVEL  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| X Axis Travel 560mm 22.05" 850mm 33.46" 1020mm 40.16" 1270mm 8   |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Y Axis Travel 410mm 16.14" 520mm 20.47" 520mm 20.47" 520mm 20  |  |  |  |  |  |  |
| Z Axis Travel 450mm 17.72" 540mm 21.26" 540mm 21.26" 540mm 21  |  |  |  |  |  |  |
| Distance Between Spindle Nose & 110mm~560mm 4.33"~22.05" 170mm~710mm 6.69"~27.95" 170mm~710mm 6.69"~27.95" 170mm~710mm 6.69"~27.95" 4.13"~25   |  |  |  |  |  |  |
| Distance Between Spindle Center & 415mm 16.34" 535mm 21.06" 535mm 21.06" 535mm 21.06"  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Table Size 700mm×420mm 27.56"×16.54" 1000mm×520mm 39.37"×20.47" 44.09"×20.47" 53.15"×20.47" 53.15"×20.47" 1000mm×520mm 44.09"×520mm 44.09"×20.47" 1000mm×520mm 44.00"×20.47" 1000mm 44.00"×20.47" 1000mm 44.00"×20.47" 10000mm 44.00"×20.47" 1000mm 44.00"×20.47" 10000m |  |  |  |  |  |  |
| Number of T-slots x Size x Pitch 3×14mm×100mm 3×0.55"×3.94" 5×18mm×100mm 5×0.71"×3.94"   |  |  |  |  |  |  |
| Load Capacity 300kg 661lb 500kg 1102lb 500kg 1102lb 1000kg 220   |  |  |  |  |  |  |
| □ FEED   |  |  |  |  |  |  |
| Rapid Feed Rate (X/Y/Z) 36/36/24 [48/48/48] m/min 36/36/24 m/min 24/24/24 m 1417/1417/945 [1890/1890] ipm 1417/1417/945 ipm 945/945/945  |  |  |  |  |  |  |
| Cutting Feed Rate 1~10000 mm/min 0.04~394 ipm  |  |  |  |  |  |  |
| □ATC   |  |  |  |  |  |  |
| Tool Magazine Capacity 16 [20] T 20T 24 [20] T   |  |  |  |  |  |  |
| Max. Tool Weight 4kg/pc 8.8lb/pc 6kg/pc 13.2lb/pc 6kg/pc 13.2lb/pc   |  |  |  |  |  |  |
| Pull Stud MAS-P30T-1 MAS-P40T-1 MAS-P40T-1   |  |  |  |  |  |  |
| Max. Tool Dimensions   |  |  |  |  |  |  |
| Max. Tool Dimensions (Without adjacent tools) ø100mm ø3.94" ø125mm ø4.92"  |  |  |  |  |  |  |
| Tool Changer Method Arm Type Arm Type Arm Type [Armless Type]  |  |  |  |  |  |  |
| Tool Selection Method Random Random Random [By Sequence]   |  |  |  |  |  |  |
| GENERAL  |  |  |  |  |  |  |
| Pneumatic Supplier 5.5kg/cm2 78.2psi   |  |  |  |  |  |  |
| Power Consumption (Transformer) 16(17)kVA 18(25)kVA 22(25)kVA 22(25)kVA 25(25)kVA  |  |  |  |  |  |  |
| Machine Weight 2800kg 6173lb 3000kg 6614lb 5260kg 11596lb 5350kg 11795lb 6700kg 147  |  |  |  |  |  |  |

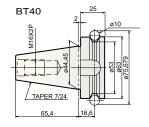
We reserve the right to modify and improve our products. [] is for Optional.

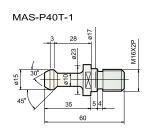
### PULL STUD AND TOOL SHANK



ACCESSORIES







|  | <i>56</i> 7   | 56A   | 85A   | 102A  | 125A  |
|--|---|---|---|---|---|
| Tool Kit                                 |   |   |   |   |   |
| Work Lamp                                |   |   |   |   |   |
|  |   |   |   |   |   |
|  | 0   | 0   | 0   | $\circ$   | 0   |
|  | 0   | 0   | 0   | 0   |   |
|  | 0   | 0   | 0   |   | 0   |
|  | 0   | 0   | 0   | _   | 0   |
|  | 0   | 0   | 0   | 0   | 0   |
|  |   |   |   |   |   |
|  |   |   |   |   |   |
|  |   |   |   |   |   |
| Cutting Air Blast                        |   |   |   |   |   |
| Spindle Air Blast                        |   |   |   |   |   |
|  |   |   |   |   |   |
| Chips Flush Coolant System               | 0   | 0   | 0   | 0   | $\bigcirc$  |
| Automatic Power Off System               | 0   | 0   | 0   |   | 0   |
| Oil-Mist Coolant System                  |   | $\bigcirc$  |   |   |   |
|  | _   | $\bigcirc$  | 0   | 0   | 0   |
|  |   |   | _   |   | _   |
| Central Lubrication System               |   |   |   |   |   |
|  |   |   |   |   |   |
| *FV56A CTS Spindle Power 5.5/7.5kW 7/10F | HP  |   |   |   |   |
|  | Work Lamp Pilot Lamp Optical Scale Automatic Door Safety Door Foundation Bolts Circular Coolant Nozzle Coolant Equipment System Oil Skimmer Coolant Gun Cutting Air Blast Spindle Air Blast Spindle Air Seal Chips Flush Coolant System Automatic Power Off System Oil-Mist Coolant System Oil-Hole Holder Function Automatic Pallet Changer (A.P.C.) Central Lubrication System Leveling Blocks and Screws | Tool Kit Work Lamp Pilot Lamp Optical Scale Automatic Door Safety Door Foundation Bolts Circular Coolant Nozzle Coolant Equipment System Oil Skimmer Coolant Gun Cutting Air Blast Spindle Air Blast Spindle Air Seal Chips Flush Coolant System Automatic Power Off System Oil-Mist Coolant System Oil-Hole Holder Function Automatic Pallet Changer (A.P.C.) Central Lubrication System | Tool Kit Work Lamp Pilot Lamp Optical Scale Automatic Door Safety Door Foundation Bolts Circular Coolant Nozzle Coolant Equipment System Oil Skimmer Coolant Gun Cutting Air Blast Spindle Air Blast Spindle Air Seal Chips Flush Coolant System Oil-Mist Coolant System Oil-Hole Holder Function Automatic Pallet Changer (A.P.C.) Central Lubrication System Leveling Blocks and Screws | Tool Kit Work Lamp Pilot Lamp Optical Scale Automatic Door Safety Door Foundation Bolts Circular Coolant Nozzle Coolant Equipment System Oil Skimmer Coolant Gun Cutting Air Blast Spindle Air Blast Spindle Air Blast Spindle Air Seal Chips Flush Coolant System Oil-Mist Coolant System Oil-Hole Holder Function Automatic Pallet Changer (A.P.C.) Central Lubrication System Leveling Blocks and Screws | Tool Kit Work Lamp Pilot Lamp Optical Scale Automatic Door Safety Door Foundation Bolts Circular Coolant Nozzle Coolant Equipment System Oil Skimmer Coolant Gun Cutting Air Blast Spindle Air Blast Spindle Air Blast Spindle Air Seal Chips Flush Coolant System Oil-Mist Coolant System Oil-Hole Holder Function Automatic Pallet Changer (A.P.C.) Central Lubrication System Leveling Blocks and Screws |

|   | <i>56</i> 7 | 56A | 85A     | 102A    | 125 <u>A</u> |
|---|-------------|-----|---------|---------|--------------|
| Spindle Cooling System                                | $\circ$     | 0   | 0       | 0       | 0            |
| Heavy Duty Coolant Pump                               | $\bigcirc$  | 0   | 0       | 0       |              |
| Coolant Through Spindle System                        | _           | 0   | 0       | 0       | 0            |
| Guide-way Cover (X,Y,Z)                               |             |     |         |         |              |
| 4th Axis Rotary Table                                 | $\circ$     | 0   | 0       | 0       | 0            |
| Rigid Tapping   |             |     |         |         |              |
| Chip Conveyor   | $\bigcirc$  | 0   | 0       | 0       | 0            |
| Screw Type Chip Conveyor                              | _           | _   |         |         | _            |
| Heat Exchanger for Electrica Cabinet                  |             |     |         |         |              |
| A/C. Cooler for Electrical Cabinet                    | $\bigcirc$  | 0   | $\circ$ | $\circ$ | 0            |
| Mechanical Electrical & Operating Manuals             |             |     |         |         |              |
| Chip Enclosure (Extra Guard Frame on Door and Window) |             | •   | •       |         | •            |
| Work-piece Measurement System (RENISHAW OMP-60)       | 0           | 0   | 0       | 0       | 0            |
| Tool Length Measurement System (METROL T24E-04-08)    | $\circ$     | 0   | 0       | 0       | 0            |
| CNC Controller :<br>YEONG CHIN FANUC MXP-200i         | •           | •   | •       | •       | •            |

FP Seriles High Precision High Performance Die Mold Vertical Machining Center FP55A, FP66A, FP100A

FV Series / High Speed High Performance Vertical Machining Center / High Speed High Performance Drilling & Tapping Center

FV56T, FV56A, FV85A, FV102A, FV125A / FV50T

XV Serfles High Performance Vertical Machining Center XV560A, XV1020A, XV1250A

EV Serijes High Efficiency Vertical Machining Center EV1020A

TV Series Heavy Duty Vertical Machining Center

TV116B, TV146A/B, TV158B, TV188B, TV2110B, TV2610B

MV Series High Performance High Rigidity Vertical Machining Center MV66A, MV76A, MV86A, MV106A

WV Series Ultra Wide High Performance Vertical Machining Center WV108A/B

FX Serijes 5-axis Vertical Machining Center FX380A

NSV Serijes Ultra High Performance Vertical Machining Center NSV66A, NSV85A, NSV102A, NSV156A

NDV Seriles High Precision Die Mold Vertical Machining Center NDV66A, NDV85A, NDV102A

**DCV** Series Advanced Double Column Vertical Machining Center DCV2012A/B, DCV3016B, DCV4016B, DCV4025B

TCV Seriles High Performance Traveling Column Vertical Machining Center TCV2000A

**HMC** 

H Seriles High Production Horizontal Machining Center H500A/B, H630B, H800B, H2612B

**CNC** LATHES

NT Seriles High Performance Mill-turn Multi-tasking Center NT-2000Y/SY, NT-2500Y/SY

GT Seriles High Performance Geo Turning Center

GT-200A/B/MA, GT-250A/B/MA, GT-300A/B/MA/LB, GT-380A/B/LA/LB

TC Series High Performance High Precision CNC Lathe

TC-26, TC-26L, TC-36, TC-36W, TC-46

Integrated Operation Control System Control System

Spindle Thermal Compensation System STG SUPER

**Automation Solutions** 



















INTEGRATION AND SOLUTIONS



YEONG CHIN MACHINERY INDUSTRIES CO., LTD. 888 HOMU RD., HSINCHUANG SHENGANG, TAICHUNG, TAIWAN

Web Page: WWW.YCMCNC.com Email: sales@YCMCNC.com

ISØ 9001 ISØ 14001 (E

Tel: +886-4-2562-3211 Fax: +886-4-2562-6479