

**TV**  
Series

*Heavy Duty Vertical Machining Center*



# TV Series

Heavy Duty Vertical Machining Centers

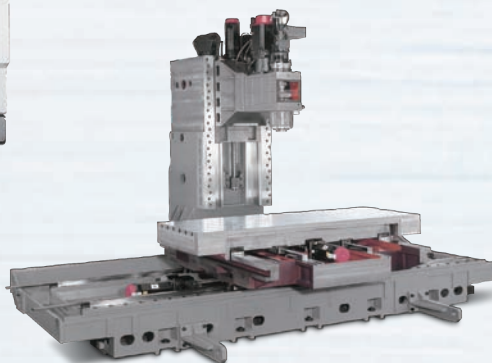
**The TV series is** designed for superb machine rigidity and performance. This series is suitable for a wide range of applications like automotive, aerospace and electronics.

**The unique** T-base structural design has been awarded a patent from Taiwan, China and the U.S.A. Its overhang free table movement is supported by highly rigid MEEHANITE® castings to ensure the best dynamic leveling accuracy, machining rigidity and durability.

The counterweight of Z-axis headstock is secured by guide bar to minimize machining vibration. Various spindle modules of high speed and high power output suit different kinds of machining requirements. Fast and reliable ATC system, efficient chip disposal system, humanized operation panel, and some models can work with APC for shortening the machining time thus increases efficiency. This TV series is favored and recommended by all industries.

Patent No :

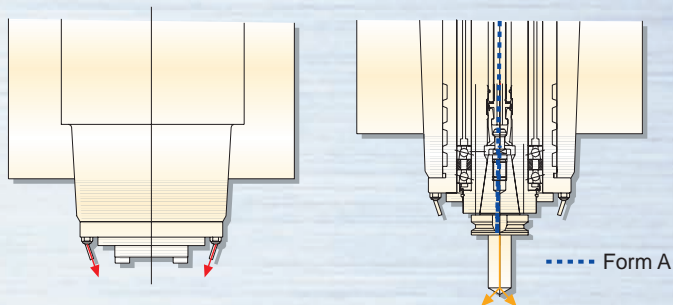
Taiwan	NO. 101029
U.S.A.	NO. 5263800
Mainland China	NO. ZL 93105466.4



# The Most Eco-friendly and Floor-saving Machine Tool of Compact Splash Enclosure & Chips Disposal System

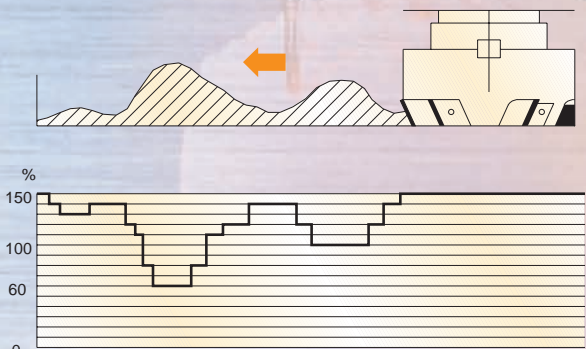
The long travel of X-axis lies on the top of the base, where the saddle moves along the full stroke; the cross Y-axis saddle supports the work table. This design virtually saves 20% ~ 30% of floor space.

The T-base rigid structure full stroke support guarantees the most dynamic accuracy.



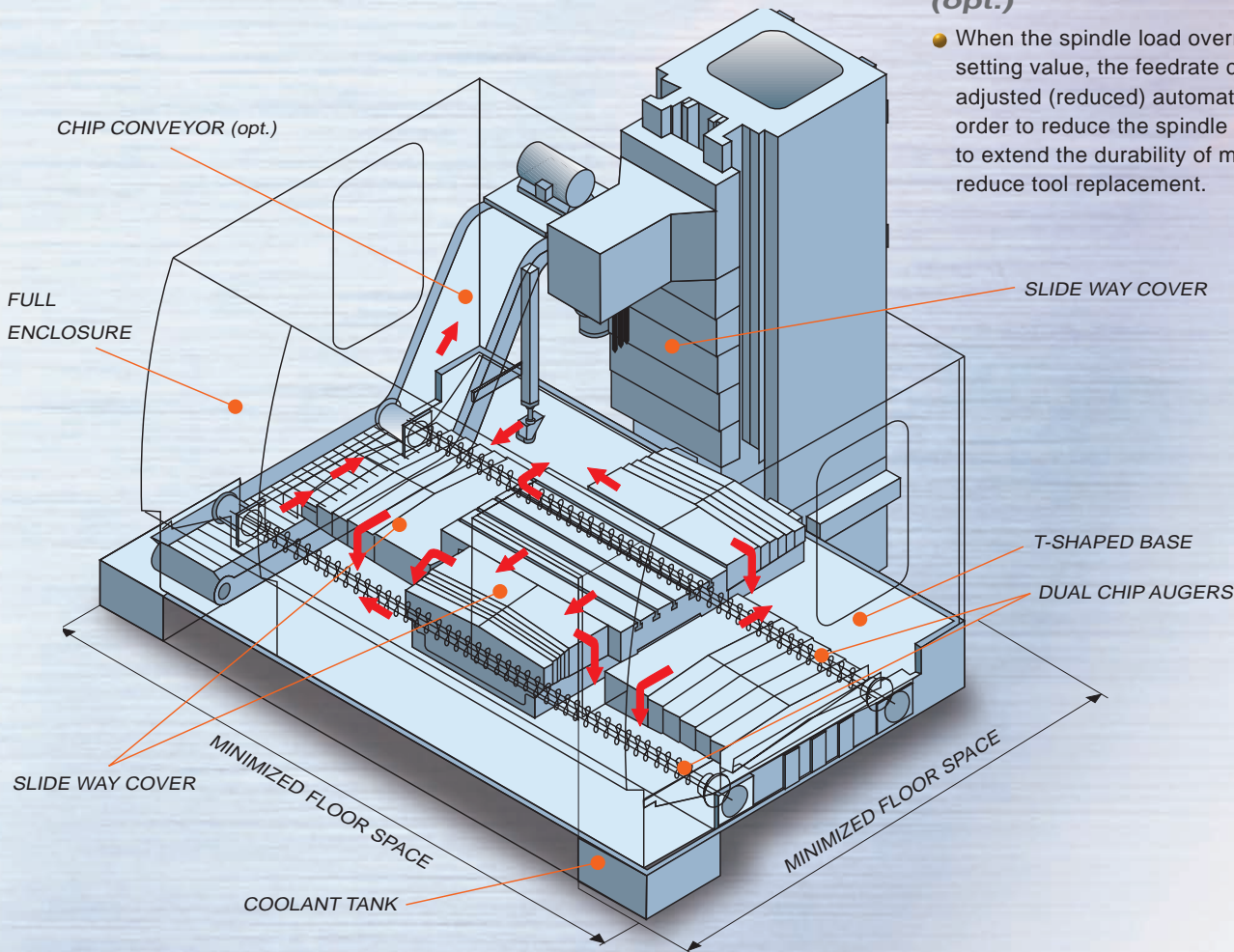
Pressure of coolant:  
1.2kg/cm<sup>2</sup> 17.07psi;  
4kg/cm<sup>2</sup> 56.89psi (opt.)

Coolant through spindle (opt.) DIN69871 Form A;  
pressure: 10kg/cm<sup>2</sup> 142.23psi ;  
20kg/cm<sup>2</sup> 284.46psi



## Integration of Applicable Machining Function-A.F.C. (opt.)

- When the spindle load overruns the setting value, the feedrate can be adjusted (reduced) automatically in order to reduce the spindle load, so as to extend the durability of machine and reduce tool replacement.



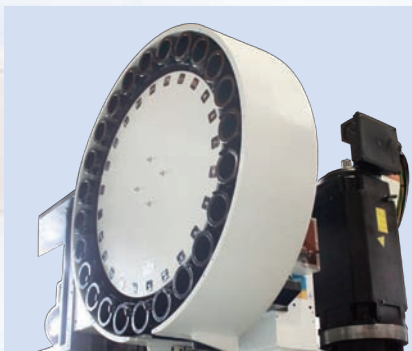


# TV Series

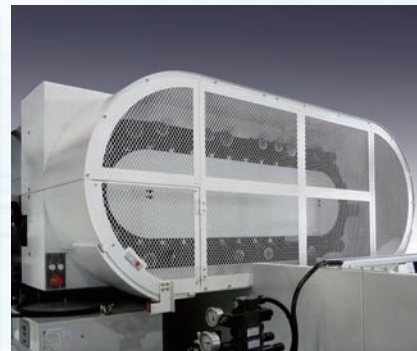
## High Efficiency, High Performance, Fully Automated Production Equipment

### Fast & Reliable ATC System

- The arm type ATC system is driven by roller gear cam to increase the work efficiency. Number of tool posts in magazine can be selected for 24T/32T/40T.



24T



32T

### Reliable Automatic Pallet Changer System

- Reliable APC system with the unique design of shuttle type mechanism successfully shortens the machining time thus increases efficiency.
- Pallet change time: 2.5 sec.

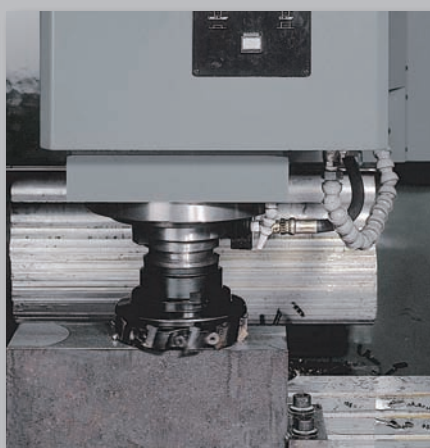
		TV116B+APC
Pallet Size	mm inch	1,200 x 560 47.24 x 22.05
Table Load Capacity	kg lb	600 1,323
Table Surface to Floor	mm inch	958 37.99



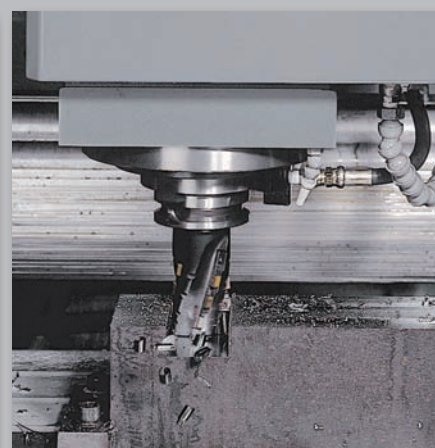
● APC



● 9mm Depth Face Milling (50#)



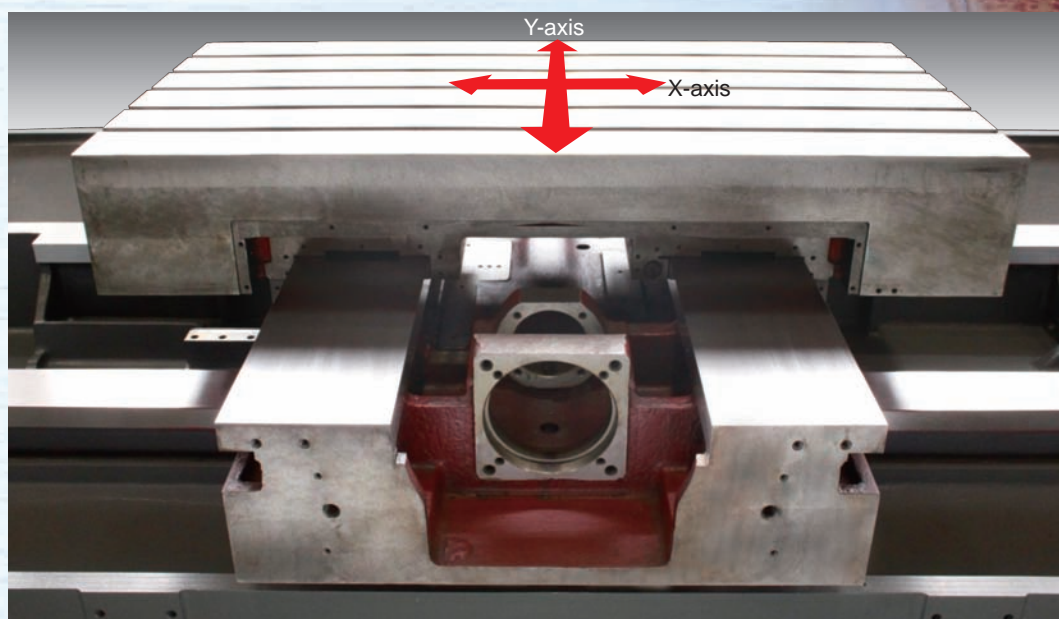
● Optimal Chip Removal (50#) Face Milling



● Optimal Chip Removal (50#) End Milling

### **The Best Force Flow T-base Design**

- The long travel of X-axis lies on the top of the base, where the saddle moves along the full stroke; the cross Y-axis saddle supports the work table.
- The T-base rigid structure has full stroke support and do not have overhang problem guarantees the most dynamic leveling accuracy.



### **Humanized Operation Panel**

- The swivel operation panel of appropriate height and clear modular switches can be operated easily.
- Clearly display the signals and alarm messages.
- Detachable MPG handwheel is installed for operational convenience.



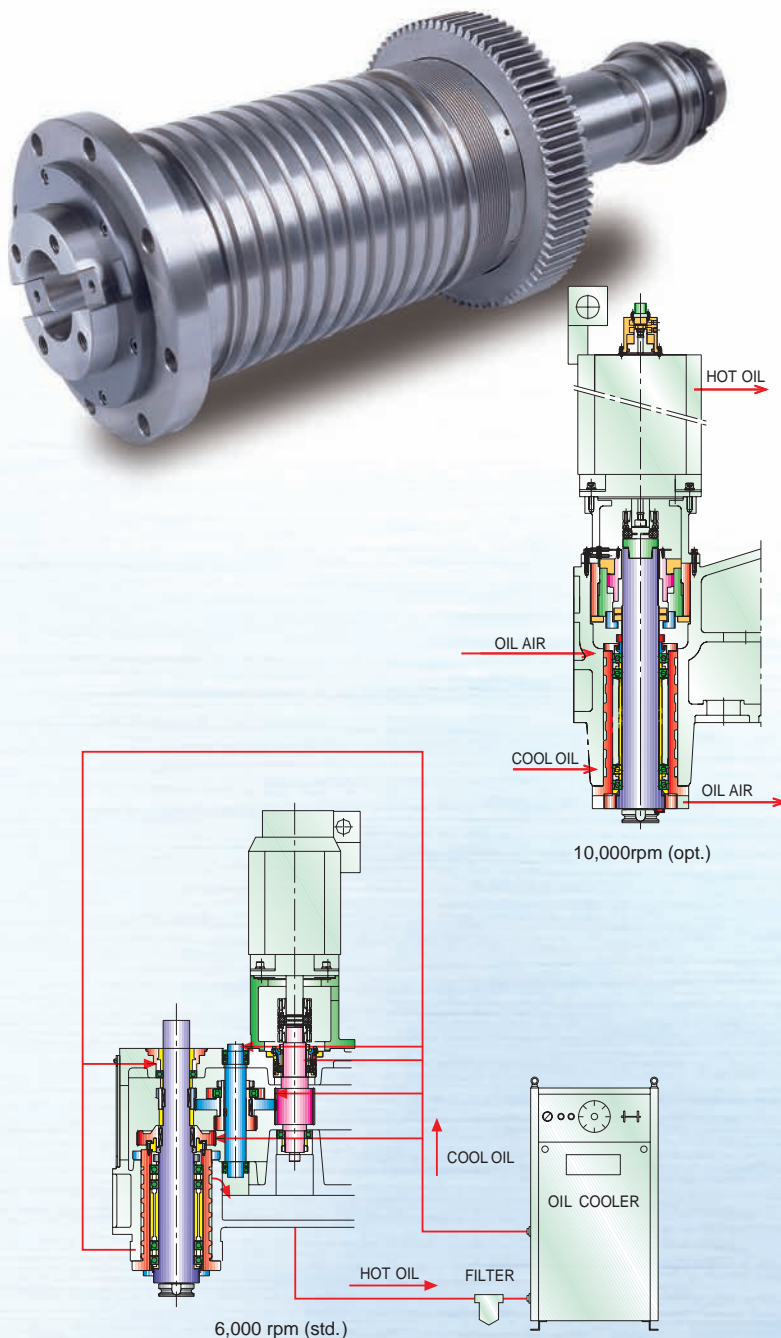
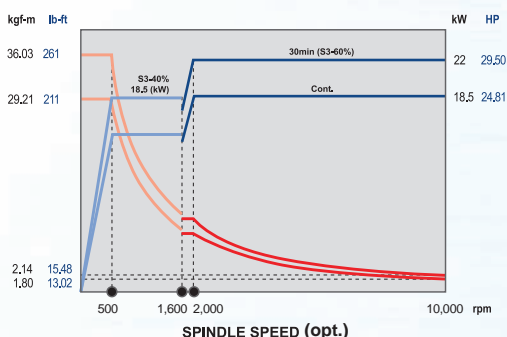
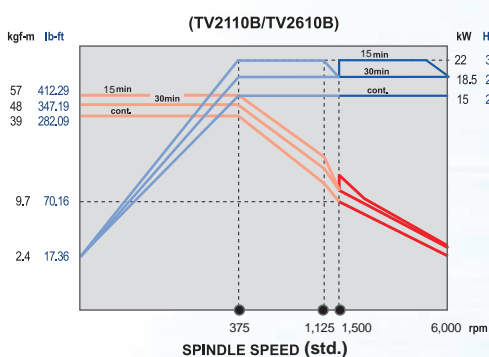
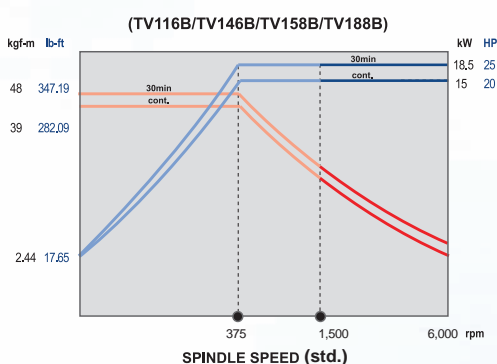


# TV Series

## TV116B/TV146B/TV158B/TV188B/TV2110B/TV2610B

- Standard gearhead spindle of maximum of 6,000rpm high-speed with the maximum of 15kW/18.5kW **25HP/20HP** power output and 48kgf-m **347.19lb-ft** torque.
- The maximum spindle power output at 15kW/18.5kW /22kW **20HP/24.8HP/29.5HP** and torque at 57kgf-m **412 lb-ft** with metal removal capacity at 600cc/min. (TV2110B/TV2610B).
- Spindle speed of up to 10,000rpm with IDD (Isolated Direct Drive) design, coupled with oil lubrication that can lower heat deviation, improve spindle accuracy and extend bearing life. Spindle power 18.5kW / 22kW **24.8HP/29.5HP** without gearbox, electric speed shift with spindle motor, maximum torque of 36kgf-m. (option).
- The quill type spindle housing is with cooling system to assure the best temperature control of the spindle head, and for the best machining results.
- Deployed with precise angular contact ceramic ball bearings for extra axial and radial rigidity to fit the requirements of heavy cutting.

POWER	TORQUE
<span style="color: blue;">L</span> Low Speed	<span style="color: orange;">L</span> Low Speed
<span style="color: blue;">H</span> High Speed	<span style="color: orange;">H</span> High Speed



# TV Series 116B

## High Rigidity Axial Movement

- All axes are equipped with hardened and precision ground integrated square guideway with durable Turcite-B lubrication coating.
- Sophisticated scraper work guarantees the best contact and perfect surface of the components to assure flawless accuracy.
- Sufficient support areas of all guideways give the best damping capacity and gain the best cutting rigidity.
- All precise ballscrews are pre-tensioned and directly coupled with powerful servo motors to reduce backlash and ensure the best accuracy.
- The counter weight of Z-axis headstock is secured by guide bar to minimize machining vibration.

### TV116B ACCURACY

ACCURACY	ISO 10791-4	YCM*
Axial Travel	Full Length	
Positioning (X/Y/Z) A	0.042 / 0.025 / 0.025mm 0.0017" / 0.0010" / 0.0010"	0.014 / 0.014 / 0.014mm 0.0006" / 0.0006" / 0.0006"
Repeatability (X/Y/Z) R	0.020 / 0.015 / 0.015mm 0.0008" / 0.0006" / 0.0006"	0.010 / 0.010 / 0.010mm 0.0004" / 0.0004" / 0.0004"

\* All values shown above are measured for the machine in good air-conditioned environments.

### Axial Rapid Feedrate

X	16m/min. 630ipm
Y	16m/min. 630ipm
Z	16m/min. 630ipm



TV116B Structure



# TV Series 146B

## High Rigidity Axial Movement

- All axes are equipped with hardened and precision ground integrated square guideway with durable Turcite-B lubrication coating.
- Sophisticated scraper work guarantees the best contact and perfect surface of the components to assure flawless accuracy.
- Sufficient support areas of all guideways give the best damping capacity and gain the best cutting rigidity.
- All precise ballscrews are pre-tensioned and directly coupled with powerful servo motors to reduce backlash and ensure the best accuracy.
- The counter weight of Z-axis headstock is secured by guide bar to minimize machining vibration.
- The Y-axis is equipped with 4 guideways to gain the best support and forceflow.

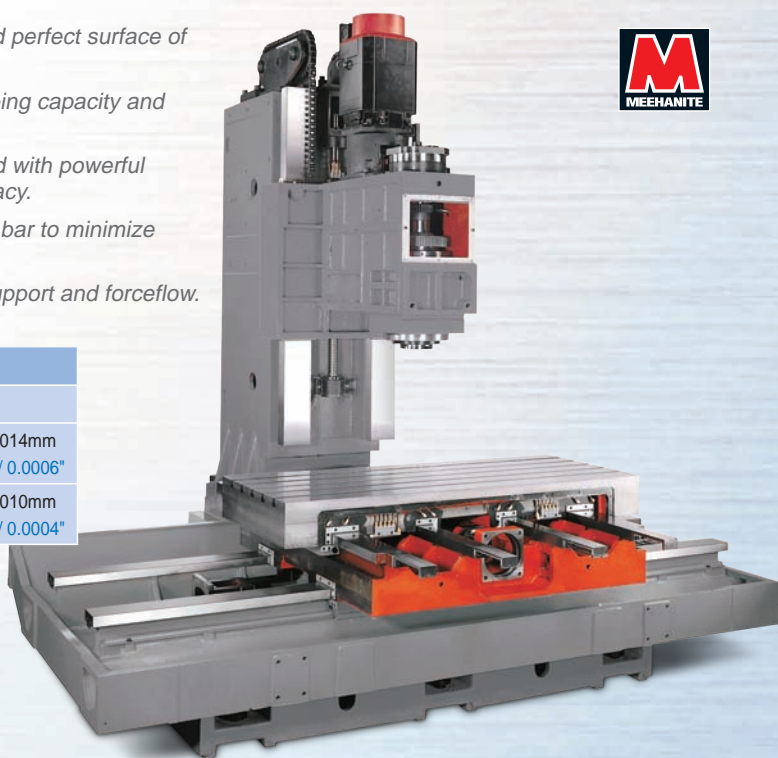
### TV146B ACCURACY

ACCURACY	ISO 10791-4	YCM*
Axial Travel	Full Length	
Positioning (X/Y/Z) A	0.042 / 0.025 / 0.025mm 0.0017" / 0.0010" / 0.0010"	0.014 / 0.014 / 0.014mm 0.0006" / 0.0006" / 0.0006"
Repeatability (X/Y/Z) R	0.020 / 0.015 / 0.015mm 0.0008" / 0.0006" / 0.0006"	0.010 / 0.010 / 0.010mm 0.0004" / 0.0004" / 0.0004"

\* All values shown above are measured for the machine in good air-conditioned environments.

### Axial Rapid Feedrate

X	16m/min. 630ipm
Y	16m/min. 630ipm
Z	16m/min. 630ipm



TV146B Y-axis 4 Guideways Design

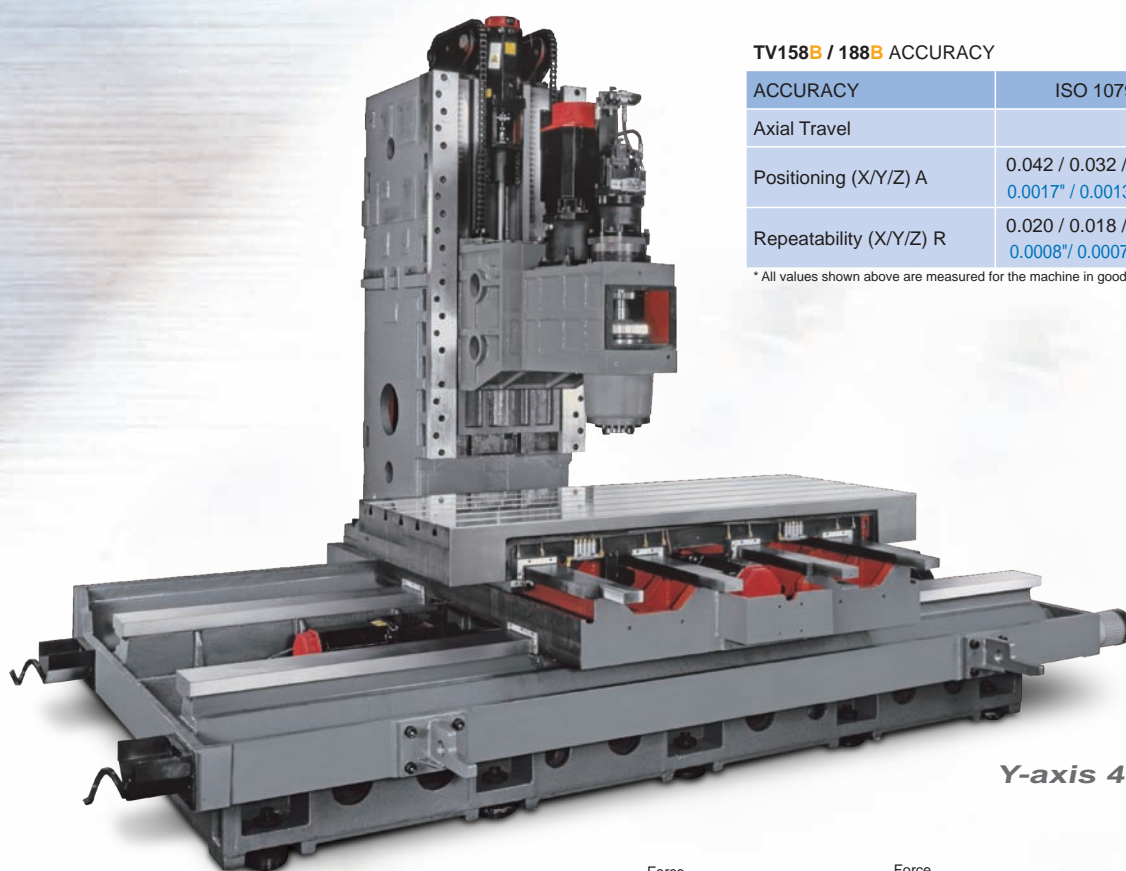




# TV Series 158B/188B

## High Rigidity Axial Movement

- All axes are equipped with hardened and precision ground integrated square guideway with durable Turcite-B lubrication coating.
- Sophisticated scraper work guarantees the best contact and perfect surface of the components to assure flawless accuracy.
- Sufficient support areas of all guideways give the best damping capacity and gain the best cutting rigidity.
- All precise ballscrews are pre-tensioned and directly coupled with powerful servo motors to reduce backlash and ensure the best accuracy.
- Inner-rail design on Z-axis ensures smooth movement of the headstock during heavy cutting performance. And the counter weight of Z-axis headstock is secured by guide bar to minimize machining vibration.
- The Y-axis is equipped with 4 guideways to gain the best support and forceflow.

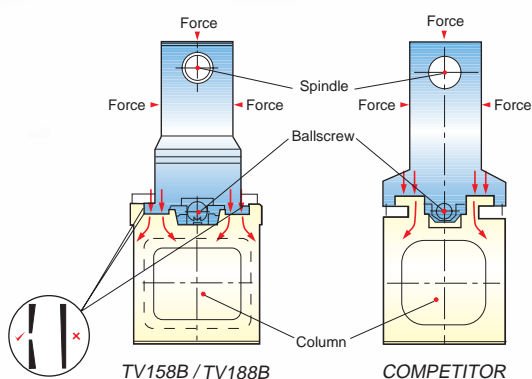


TV158B / 188B ACCURACY

ACCURACY	ISO 10791-4	YCM*
Axial Travel	Full Length	
Positioning (X/Y/Z) A	0.042 / 0.032 / 0.025mm 0.0017" / 0.0013" / 0.0010"	0.014 / 0.014 / 0.014mm 0.0006" / 0.0006" / 0.0006"
Repeatability (X/Y/Z) R	0.020 / 0.018 / 0.015mm 0.0008" / 0.0007" / 0.0006"	0.010 / 0.010 / 0.010mm 0.0004" / 0.0004" / 0.0004"

\* All values shown above are measured for the machine in good air-conditioned environments.

Y-axis 4 Guideways



Axial Rapid Feedrate

X	15m/min. 591ipm
Y	15m/min. 591ipm
Z	12m/min. 472ipm





# TV Series 2110B/2610B

## High Rigidity Axial Movement

- X, Y, Z axis precision ball screw of JIS C3 class, with the use of precision angular contact ball bearings, adopting screw pretension way to provide the best feed accuracy and rigidity.
- Wide T-base structure design that enables X-axis travel is completely contained within the base of the slide. Overhang free while table moving that ensures stable movement during heavy cutting.
- Y-axis is equipped with 4 guideways to gain the best support and to reinforce the axial movement.
- X & Y-axis are designed with ultra heavy load IKO roller linear guideways for the max. 7,000kg 15,432 lb work load and to ensure the smoothest axial movements.
- Inner-rail design on Z-axis ensures smooth movement of the headstock during heavy cutting performance. Slide surface adopted heat treatment, with Turcite-B to reduce friction. Meanwhile, the automatic lubrication system provides lubrication of each slide surface to ensure accuracy and longevity.

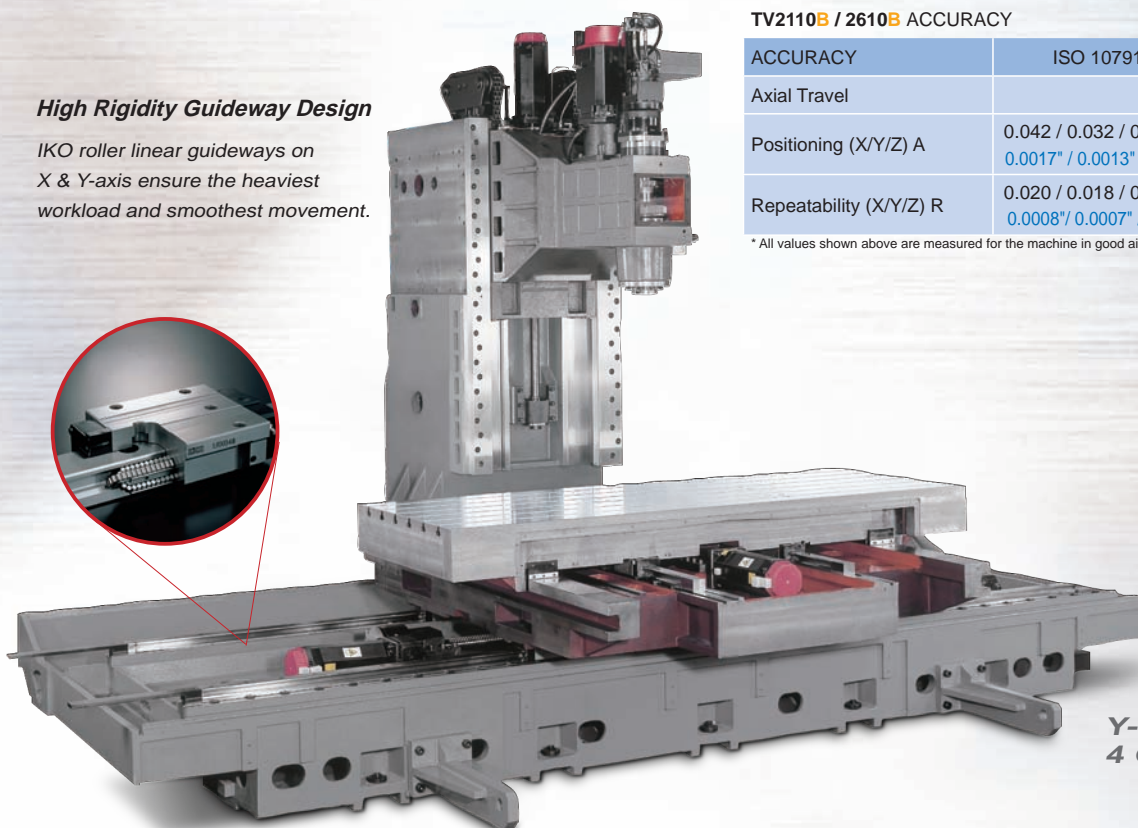
## High Rigidity Guideway Design

IKO roller linear guideways on X & Y-axis ensure the heaviest workload and smoothest movement.

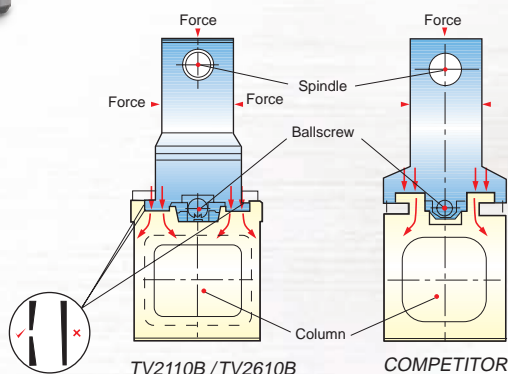
## TV2110B / 2610B ACCURACY

ACCURACY	ISO 10791-4	YCM*
Axial Travel	Full Length	
Positioning (X/Y/Z) A	0.042 / 0.032 / 0.025mm 0.0017" / 0.0013" / 0.0010"	0.014 / 0.014 / 0.014mm 0.0006" / 0.0006" / 0.0006"
Repeatability (X/Y/Z) R	0.020 / 0.018 / 0.015mm 0.0008" / 0.0007" / 0.0006"	0.010 / 0.010 / 0.010mm 0.0004" / 0.0004" / 0.0004"

\* All values shown above are measured for the machine in good air-conditioned environments.



## Y-axis Complex 4 Guideways Design



TV2110B / TV2610B

COMPETITOR

## Axial Rapid Feedrate

X	12m/min. 472ipm
Y	12m/min. 472ipm
Z	12m/min. 472ipm

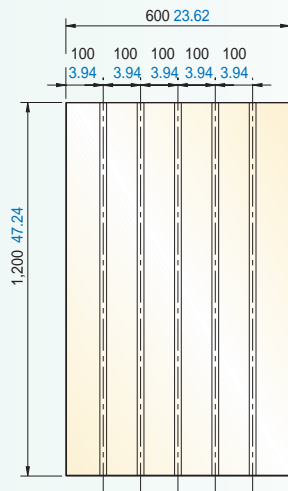


# TV Series 116B

## DIMENSIONS

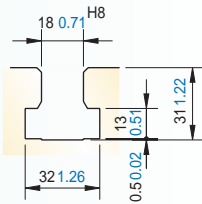


The appearance of the machines will be diverse due to different model.

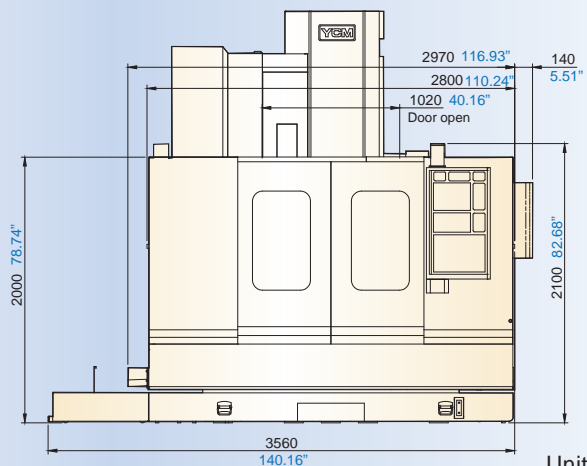
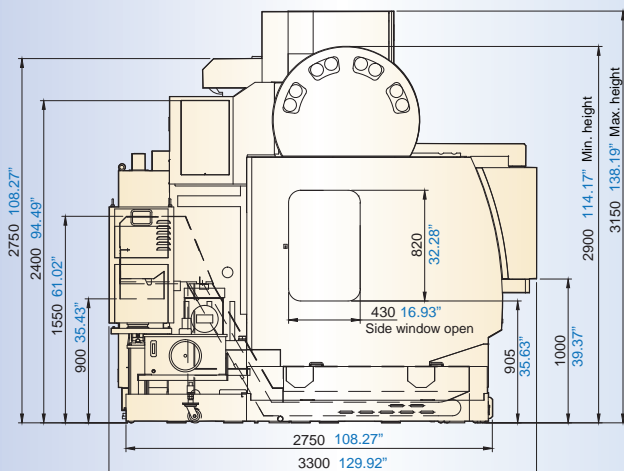
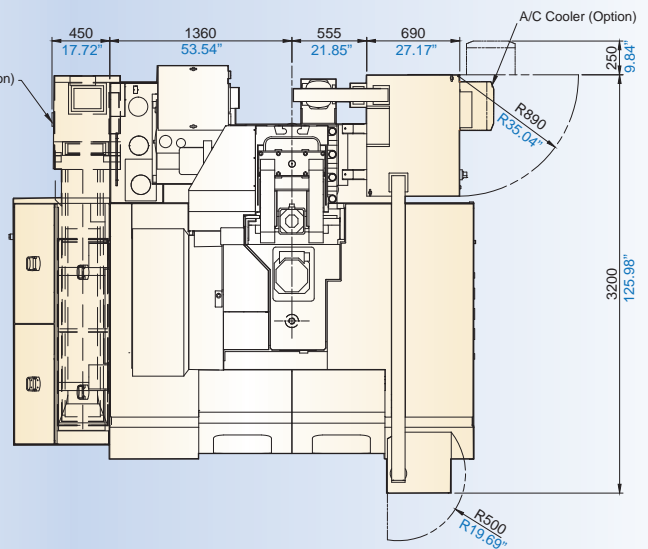


### TABLE SIZE

### T-SLOTS



Chip conveyor(option)



Unit : mm inch

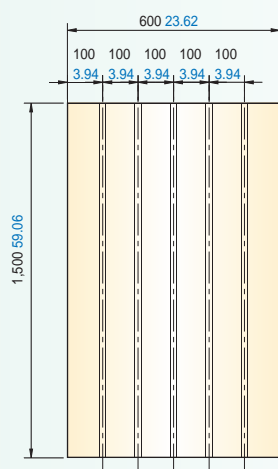


# TV Series 146B

## DIMENSIONS



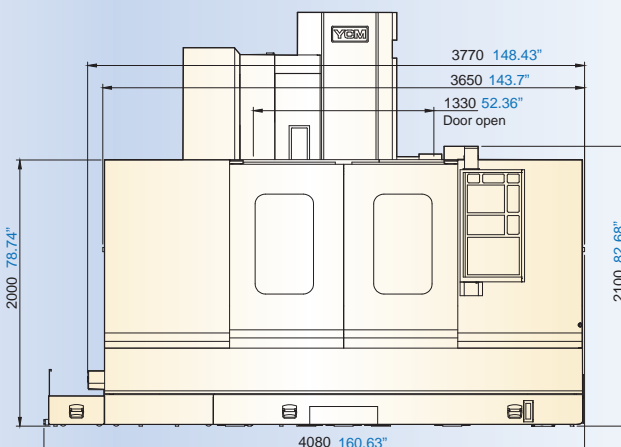
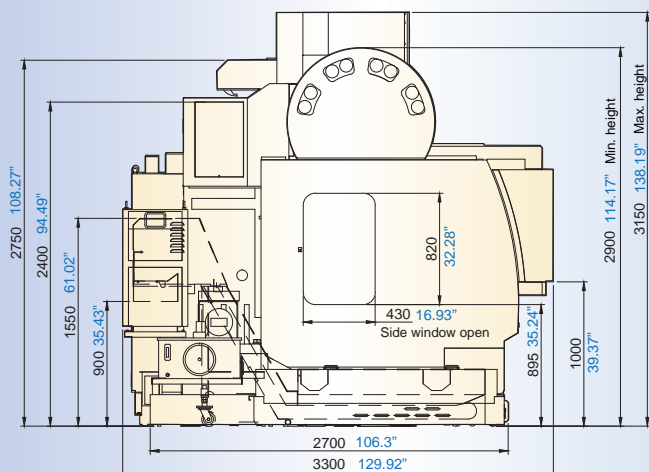
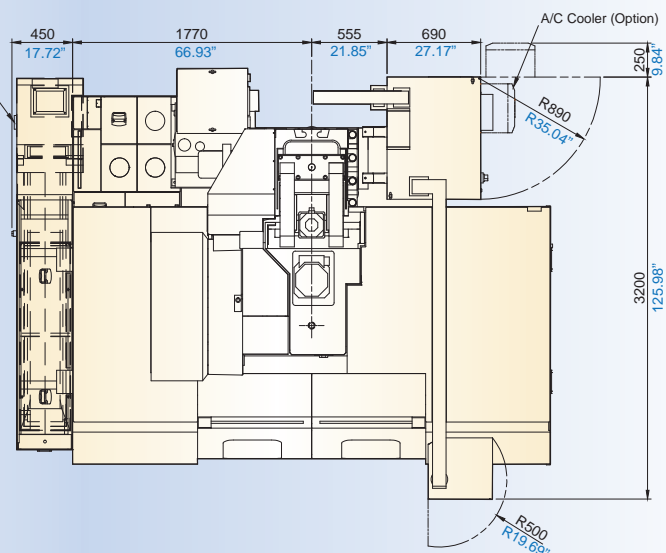
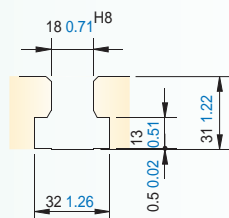
The appearance of the machines will be diverse due to different model.



### TABLE SIZE

Chip conveyor(option)

### T-SLOTS



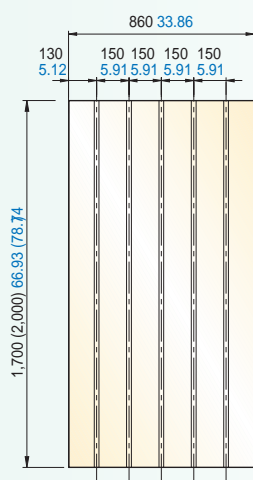
Unit : mm inch

# TV Series 158B/188B

## DIMENSIONS

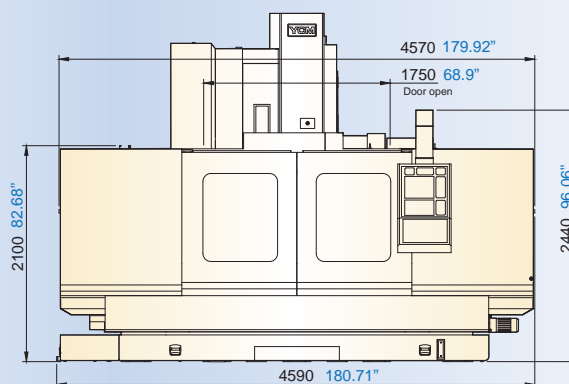
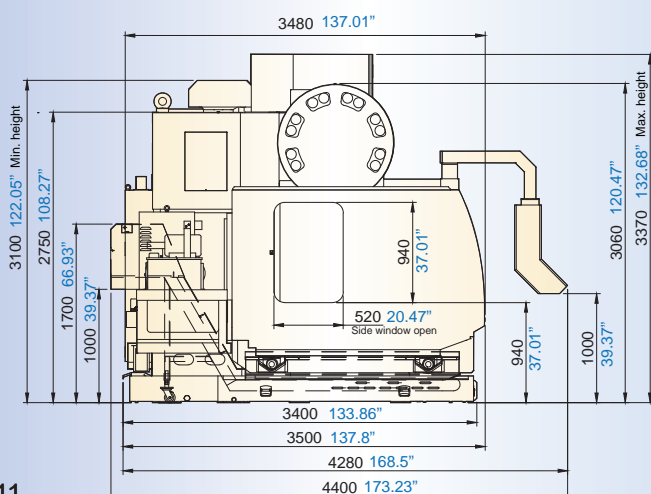
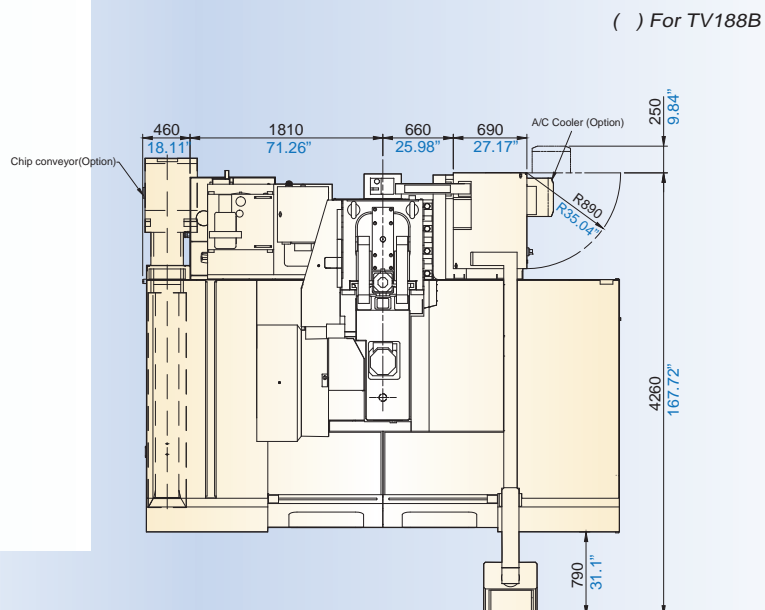
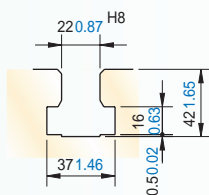


The appearance of the machines will be diverse due to different model.



### TABLE SIZE

### T-SLOTS



Unit : mm inch

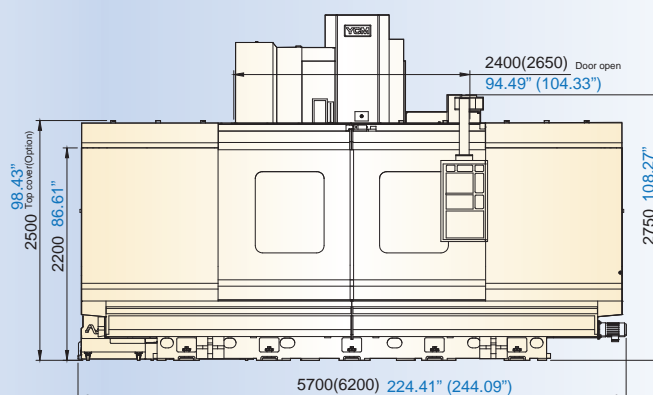
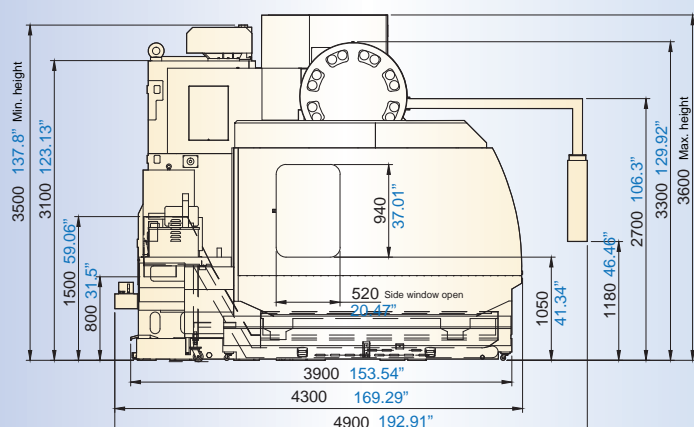
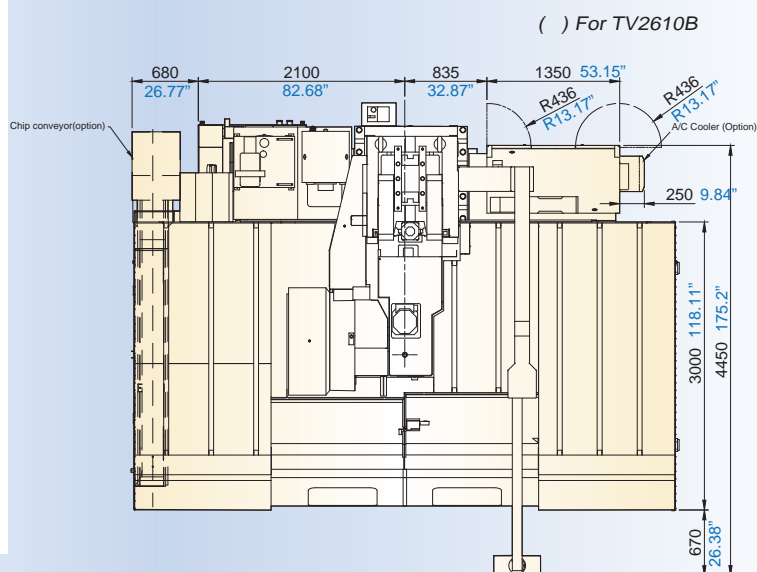
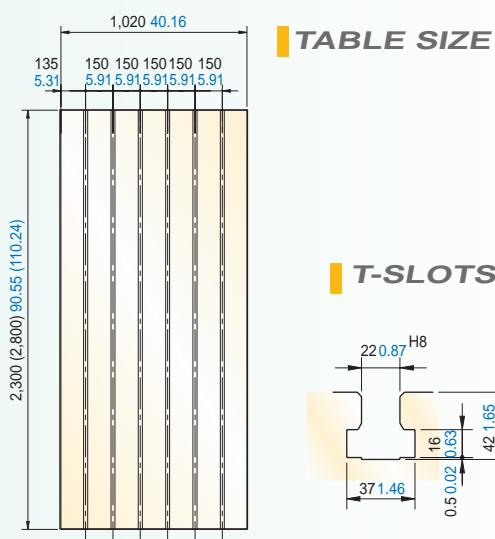


# TV Series 2110B/2610B

## DIMENSIONS



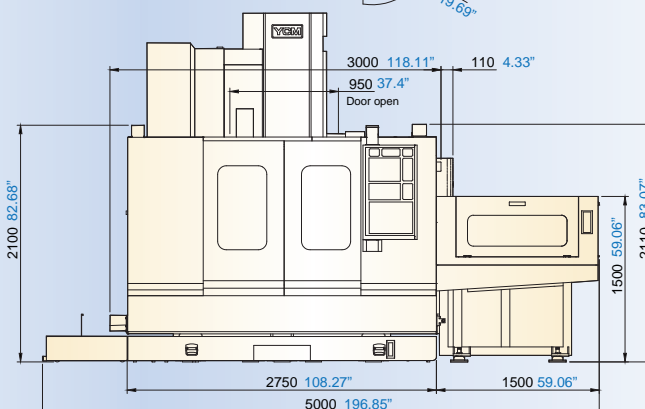
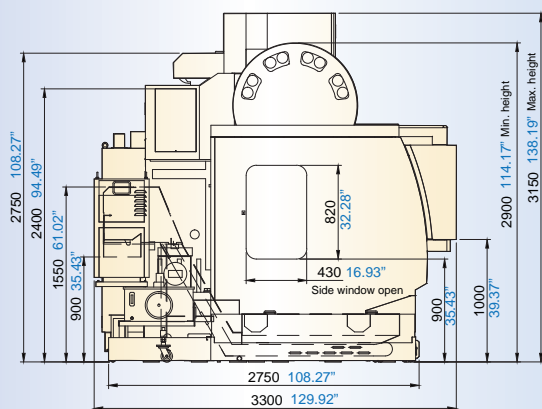
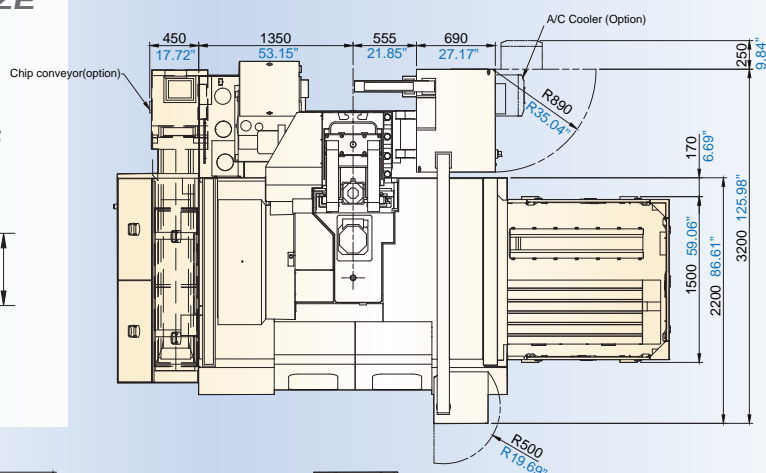
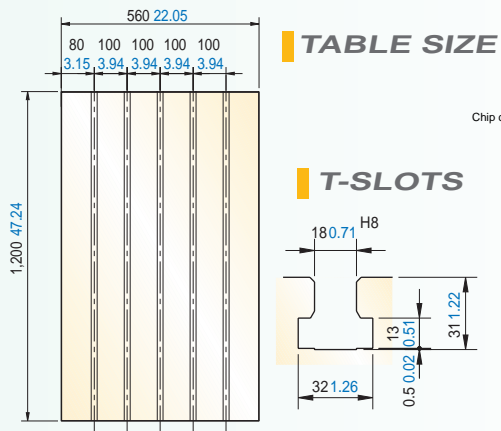
The appearance of the machines will be diverse due to different model.



Unit : mm inch

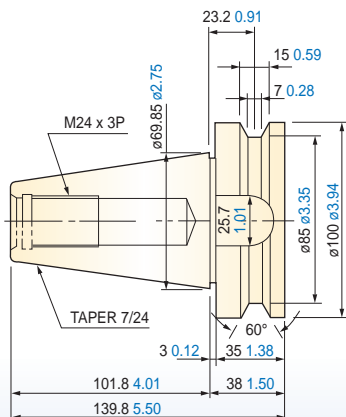
# TV Series 116B + APC

## DIMENSIONS

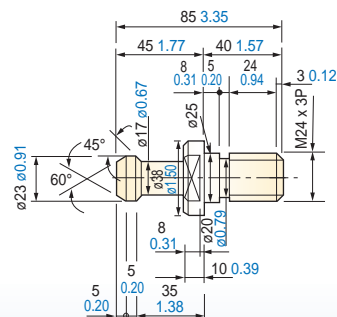


### PULL STUD AND TOOL SHANK

#### BT50



#### MAS-P50T-1



Unit : mm inch



SPECIFICATIONS

	TV116B	TV146B	TV158B	TV188B	TV2110B	TV2610B
SPINDLE						
Spindle Speed (opt.)	6,000rpm (10,000rpm)					
Spindle Power	15/18.5kW (18.5/22kW) 20/25HP (25/30HP)				15/18.5/22kW (18.5/22kW) 20/25/30HP (25/30HP)	
Spindle Taper	BT50(BBT50)					
Front Bearing Diameter	ø100mm ø3.94"					
TRAVEL						
X-axis Travel	1,100mm 43.31"	1,400mm 55.12"	1,500mm 59.06"	1,800mm 70.87"	2,100mm 82.68"	2,600mm 102.36"
Y-axis Travel	600mm 23.62"	620mm 24.41"	860mm 33.86"	860mm 33.86"	1,020mm 40.16"	1,020mm 40.16"
Z-axis Travel	630mm 24.8"	630mm 24.8"	750mm 29.53"	750mm 29.53"	762mm 30"	762mm 30"
Distance Between Spindle Nose & Table Top (APC)	168~798mm (75~705mm) 6.6"~34.4" (2.95"~27.8")	153~783mm 6.02"~30.83"	150~900mm 5.91"~35.43"	150~900mm 5.91"~35.43"	200~962mm 7.87"~37.87"	200~962mm 7.87"~37.87"
Distance Between Center & Column Front	615mm 24.21"	615mm 24.21"	920mm 36.22"	920mm 36.22"	1,070mm 42.13"	1,070mm 42.13"
TABLE						
Table size (APC)	1,200 × 600mm (1,200 × 560mm) 47.24" × 23.62" (47.24" x 22.05")	1,500 × 600mm 59.06" × 23.62"	1,700 × 860mm 66.93" × 33.86"	2,000 × 860mm 78.74" × 33.86"	2,300 × 1,020mm 90.55" × 40.16"	2,800 × 1,020mm 110.24" × 40.16"
Max. Load on Table (APC)	1,200kg (600kg) 2,646 lb (1,543 lb)	1,500kg 3,307 lb	2,000kg 4,409 lb	2,000kg 4,409 lb	7,000kg 15,432 lb	7,000kg 15,432 lb
The Height From Table Top to Floor (APC)	865mm (965mm) 34.06" (37.99")	875mm 34.45"	970mm 38.22"	970mm 38.22"	1,150mm 45.28"	1,150mm 45.28"
T-Slots × Size × Pitch	5 × 18mm × 100mm 5 × 0.71" × 3.94"		5 × 22mm × 150mm 5 × 0.87" × 5.91"		6 × 22mm × 150mm 6 × 0.87" × 5.91"	
FEEDRATE						
Rapid Feedrate	16/16/16 m/min. 630/630/630ipm		15/15/12 m/min. 591/591/472ipm		12/12/12 m/min. 472/472/472ipm	
Cutting Feedrate	1~5,000 mm/min. 0.04~196.9ipm					
ATC						
Tool Magazine Capacity	24T (32/40T)					
Max. Tool Dimensions	ø110 x 350mm (ø120 x 350mm) ø4.33" x 13.78" (ø4.72" x 13.78")					
Max.Tool Dimensions (Without adjacent tools)	ø190mm (ø240mm) ø7.48" (ø9.45")					
Max. Tool Weight	20kg/pc 44 lb/pc					
Tool Changer Method	Arm Type					
Tool Selection Method	Random					
GENERAL						
Lubrication Pump Motor	5.5kg/cm² 78.2psi					
Power Consumption	48kVA (65kVA)		55kVA (65kVA)		57kVA (65kVA)	
Machine Weight (APC)	11,200kg (12,460kg) 24,692 lb (27,469 lb)	12,300kg 27,117 lb	18,000kg 39,683 lb	20,500kg 45,194 lb	25,500kg 56,217 lb	26,000kg 57,320 lb

Note: The manufacturer reserves the right to modify the design, specifications, mechanisms,etc. to improve the performance of the machine without notice. All the specifications shown above are just for reference.

Accessories

	116B	146B	158B	188B	2110B	2610B
Tool Kit	●	●	●	●	●	●
Work Lamp	●	●	●	●	●	●
Pilot Lamp	●	●	●	●	●	●
Optical Scale	○	○	○	○	○	○
Gear Box	●	●	●	●	●	●
Foundation Bolts	●	●	●	●	●	●
Coolant Equipment System	●	●	●	●	●	●
Oil Skimmer	○	○	●	●	●	●
Coolant Gun	●	●	●	●	●	●
Spindle Air Blast	●	●	●	●	●	●
Cutting Air Blast	●	●	●	●	●	●
Oil-Hole Holder Function	○	○	○	○	○	○
Automatic Power Off System	○	○	○	○	○	○
Oil Mist Coolant System	○	○	○	○	○	○
Chip (w/o Top Cover)	●	●	●	●	●	●
Enclosure (w/ Top Cover)	○	○	○	○	○	○
APC	○	—	—	—	—	—
Leveling Blocks	●	●	●	●	●	●
Central Automatic Lubrication System	●	●	●	●	●	●
	116B	146B	158B	188B	2110B	2610B
Spindle Cooling System	●	●	●	●	●	●
Coolant Through Spindle System	○	○	○	○	○	○
4th Axis Rotary Table	○	○	○	○	○	○
Guideway Cover (X/Y/Z)	●	●	●	●	●	●
Rigid Tapping	●	●	●	●	●	●
Hydraulic System	●	●	●	●	●	●
Dual Chip Auger	●	●	●	●	●	●
A.F.C. Adaptive Feedrate Control	○	○	○	○	○	○
Mechanical, Electrical & Operating Manuals	●	●	●	●	●	●
Heat Exchanger for Electrical Cabinet	●	●	●	●	●	●
A/C Cooler for Electrical Cabinet	○	○	○	○	○	○
Chip Conveyor	○	○	○	○	○	○
Circular Coolant Nozzle	○	○	●	●	●	●
Heavy Duty Coolant Pump	○	○	○	○	○	○
Work Piece Measurement System	○	○	○	○	○	○
Auto Tool Length Measurement System	○	○	○	○	○	○
CNC Control : MXP-200FB	●	●	●	●	●	●
CNC Control : MXP-200FC	○	○	○	○	○	○

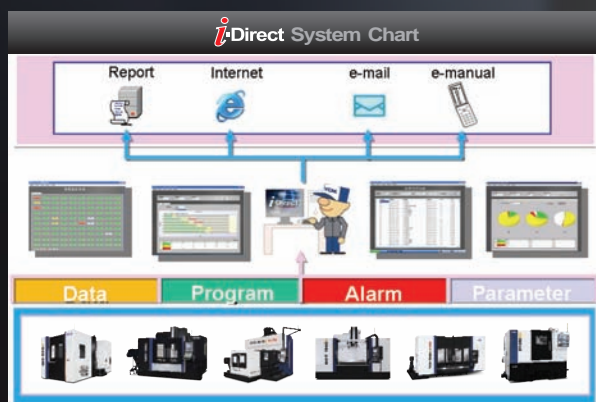
# MXP-200 FB/FC

**YCM CONTROL**  
by **FANUC**

- High Response AC Digital Servo & Spindle Drives with High Definition
- AICC II High Speed High Accuracy with Auto Switching on/off Machining
- JERK Control Function (opt.)
- High Rigidity Tapping, Helical Interpolation
- Custom Marco B and Tool Path Graphics
- Manual Guide i with large Screen Display . (MXP-200FC, opt.)
- Program File Management for Easy Program Classifying
- USB Interface for Easy Parameters & CNC Programs Transfer
- 512KB Memory
- High Speed Positioning Function (MXP-200FC, opt.)
- Memory Card Program Edit & Operation (opt.)
- 3D Interference Check (5-axis control as standard)
- NANO Smoothing Function (opt.)
- 400 pairs tool offset, 1,000 total registered programs
- 48 pairs of workpieces coordinate system
- Extended parts program editing (cut, copy, and paste. maximum 4,000 characters)

**i-Direct** A remote monitoring system

The YCM Production Line Monitoring System i-Direct overcomes the limitations of time and distance. This software provides plant operators with instant production status, including production value, output, standby, alarm time, status display and malfunction records of the machine. These data could be browsed online and printed. When incidents occur, i-Direct will automatically warn plant operators through e-mail or MMS message. With i-Direct Production Line Monitoring System the plant operators can easily keep track of production statuses regardless of time and distance.



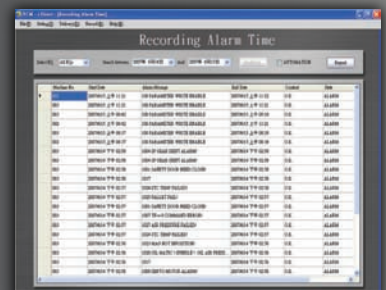
Single Machine Status Browsing  
Machine Status Browsing



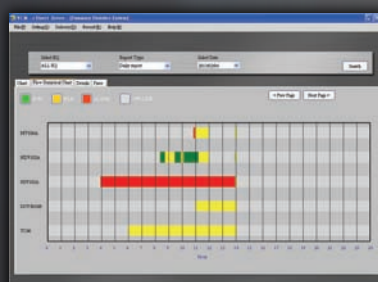
Plant Operation Status Monitoring



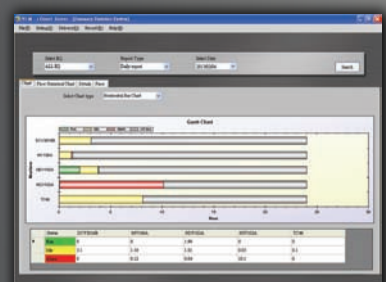
Machine connection, MMS and e-mail settings



Machine Status Time Record



Production Status Process Record



Production Management Statistics



# i-OPERATION *Plus II*

Software Enhancement Exclusively from YCM



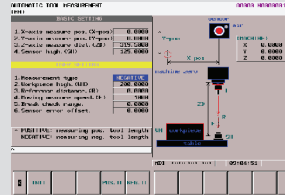
## Pre-machining Preparation

**Intelligent Tool Data Management**  
Comprehensive tool data management function allows operators to monitor and manage all positions in tool magazine

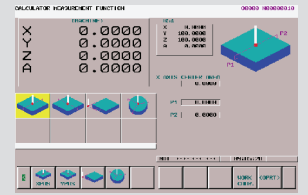
TOOL DATA TABLE

TOOL NO.	TOOL NAME	TOOL TYPE	TOOL LENGTH	TOOL COMPENSATION
121	017	017		
122	017	017		
123	017	017		
124	017	017		
125	017	017		
126	017	017		
127	017	017		
128	017	017		
129	017	017		
130	017	017		
131	017	017		
132	017	017		
133	017	017		
134	017	017		
135	017	017		
136	017	017		
137	017	017		
138	017	017		
139	017	017		
140	017	017		

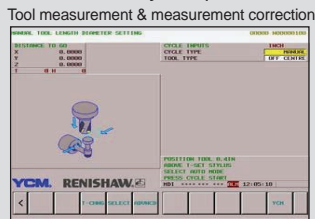
**Tool Length Measurement**  
Graphic measuring interface provides automatic tool length measurement function



**Workpiece Coordinate Calculation**  
Conversational operating window provides convenient and fast setup of workpiece coordinates

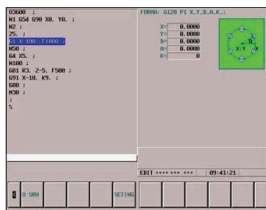


## NEW RENISHAW GUI System (Conversational Graphic Operating Interface)

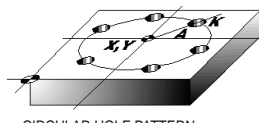


## Programming

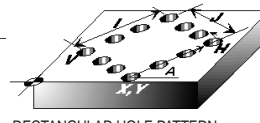
### NEW i-PATTERN



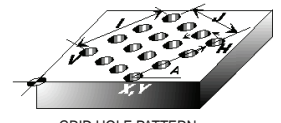
15 sets of machining cycle program  
Reduces program input and memory time  
Graphic interface & conversational command input



CIRCULAR HOLE PATTERN  
(G120 P1) Function



RECTANGULAR HOLE PATTERN  
(G120 P4) Function

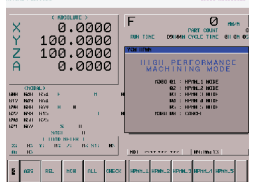


GRID HOLE PATTERN  
(G120 P5) Function

## Machining

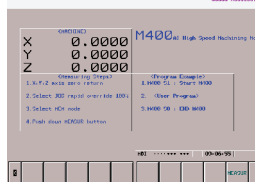
### High Performance Machining Mode M300

With 5 sets of parameter settings, the users choose the most suitable mode for optimum machining



### High Speed Machining Mode M400

Increases drilling and tapping speed, reduces machining time for job shop and precision mold machining



### NEW Tool Load Management

Instant tool load monitoring with alarm function



### Multi-display Function

Displays 4 statuses simultaneously with configurable status display



### NEW Tool Life Management

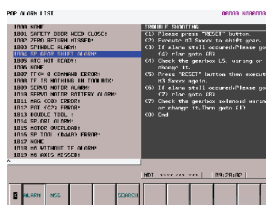
Indicates tool status of each group with tool life alert



## Instant Message Alert

### Pop-up Alarm Display

Instantly provides troubleshooting procedure  
Quick response to alarm



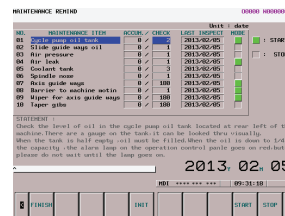
### Wireless Message Notification

Machine status sent to a designated cellphone number.



## Maintenance

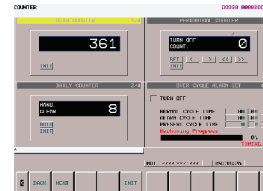
### Intelligent Maintenance



Provide users with periodic maintenance options and descriptions

Instantly provide users with maintenance notifications

### Counter Function



Allow users to keep count of workpieces with the function of overtime cycle alarm provides easy control over machining cycle time

1. Main Counter
2. Periodical Counter
3. Daily Counter
4. Over Cycle Alarm



## VMC

YCM<sup>®</sup> PRODUCT LINES

### Vertical Machining Center

**FP Series** High Precision High Performance Die Mold Vertical Machining Center / High Precision Graphite Vertical Machining Center  
FP55LX, FP66A, FP100A / FP66G

**NXV Series** High Performance Vertical Machining Center  
NXV560A, NXV1020A/AM, NXV1380A, NXV1680A/B

**TV Series** Heavy Duty Vertical Machining Center  
TV116B, TV146B, TV158B, TV188B, TV2110B, TV2610B

**NTV Series** High Efficiency T-base Vertical Machining Center  
NTV158A/B

**NMV Series** High Performance High Rigidity Vertical Machining Center  
NMV76A, NMV106A

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

**FX Series** High Performance 5-axis Vertical Machining Center  
FX380A

**NSV Series** Ultra High Performance Vertical Machining Center  
NSV66A, NSV102A, NSV102AM, NSV156A

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

**TCV Series** High Performance Traveling Column Vertical Machining Center  
TCV2000A, TCV3000A, TCV3000A-5AF, TCV3000A-5AX

**DCV Series** Advanced Double Column Vertical Machining Center

DCV2012A/B, DCV3016B, DCV4016B, DCV3021B, DCV4021B, DCV5021B, DCV6021B, DCV3025B, DCV4025B, DCV5025B, DCV4030B, DCV5030B, DCV6030B, DCV4035B, DCV5035B, DCV6035B, DCV2018A-5AX, DCV4030B-5AX, DCV5030B-5AX, DCV6030B-5AX, DCV4030B-5AF

**NDC Series** High Performance Double Column Vertical Machining Center  
NDC2016B, NDC3016B, NDC4016B, NDC2018B-AHC, NDC3018B-AHC, NDC4018B-AHC

## HMC

### Horizontal Machining Center

**H Series** High Production Horizontal Machining Center  
H500A/B, H630B, H2612B

**NH Series** High Speed High Precision Horizontal Machining Center  
NH450A, NH630B, NH800B

## HBM

### Horizontal Boring Milling Machining Center

**BMP Series** High Accuracy Heavy Duty Boring Machine  
BMP1416B

## CNC LATHES

### CNC Turning Center

**NT Series** High Performance Mill/Turn Center  
NT-2000Y/SY, NT-2500Y/SY

**GT Series** High Performance Geo Turning Center  
GT-200A/B/MA, GT-250A/B/MA/MB, GT-300A/B/LA/LB/MA/MB/LMA/LMB, GT-380A/B/LA/LB

**TC Series** High Performance High Precision CNC Lathe  
TC-16A/B/LA/LB/MA/MB/LMA/LMB, TC-26, TC-26L, TC-36, TC-36W, TC-46, TC-46M

Integrated Operation Control System **iOPERATION**

Spindle Thermal Compensation System **STC PLUS**

Remote Monitoring System **iDirect**

Automation Solutions



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