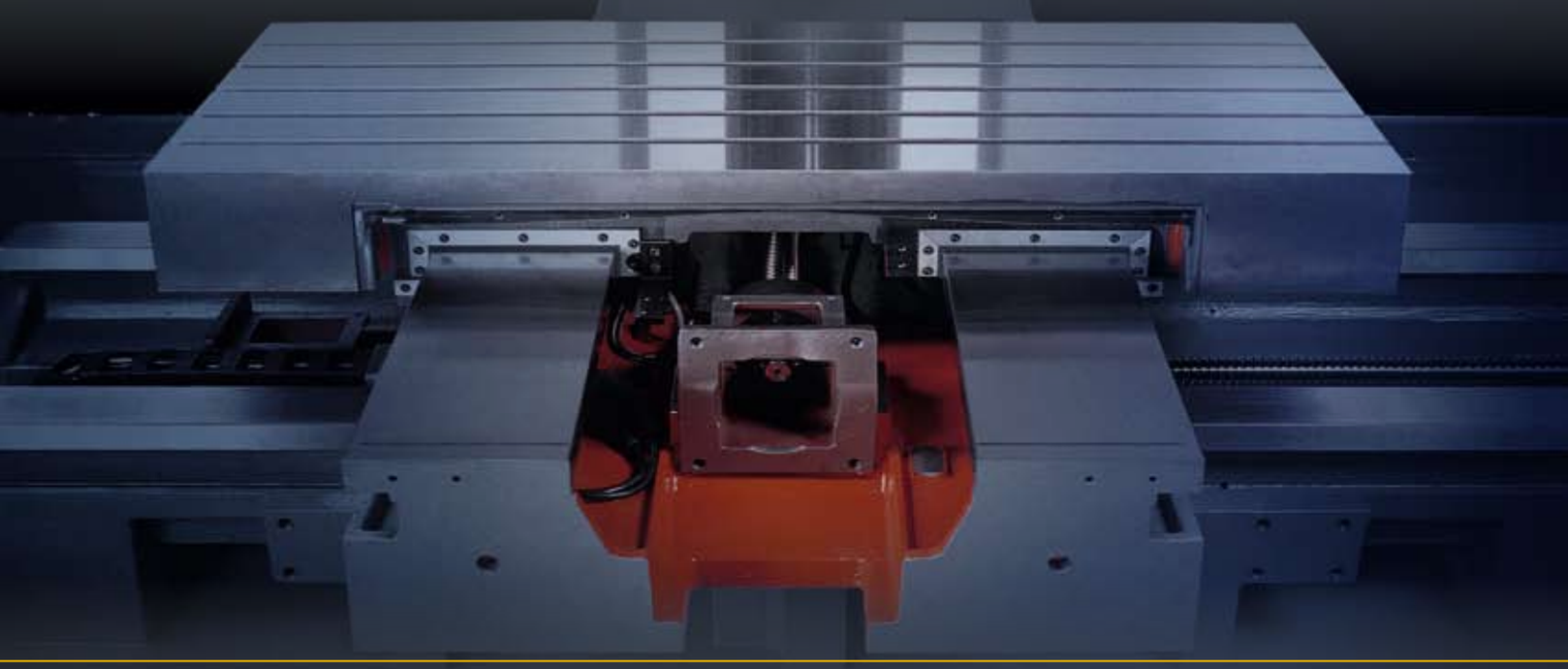
TV Series

Heavy Duty Vertical Machining Center



YCM®

TV Series

Heavy Duty Vertical Machining Centers

The TV series is *designed to superb machine rigidity and performance. This series is suitable for a wide range of applications like automotive, aerospace, 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 patent T-base structural design also offers the smallest machine foot print and the most efficient chip disposal system in its class.*

To attain *exceptional machining accuracy, the major components are reinforced through induction hardening process, precision ground and FEM analysis. All hardened and ground precision ballscrews are pre-tensioned and directly coupled to the servo motor to offer low backlash and optimal machining rigidity. The counter weight of Z-axis headstock is secured by guide bar to minimize machining vibration.*

Patent No :

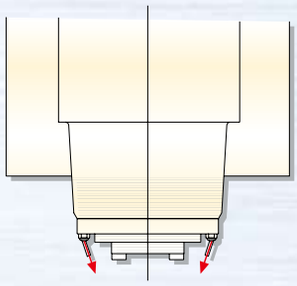
Taiwan	*NO. 101029*
U.S.A.	*NO. 5263800*
Mainland China	*NO. ZL 93105466.4*

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

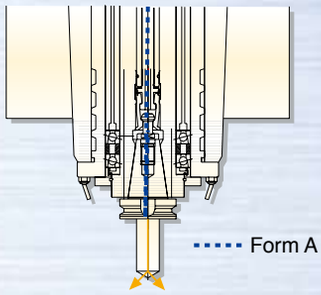
The Most Eco-friendly and Floor-saving Machine Tool of Compact Splash Enclosure & Chips Disposal System

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.

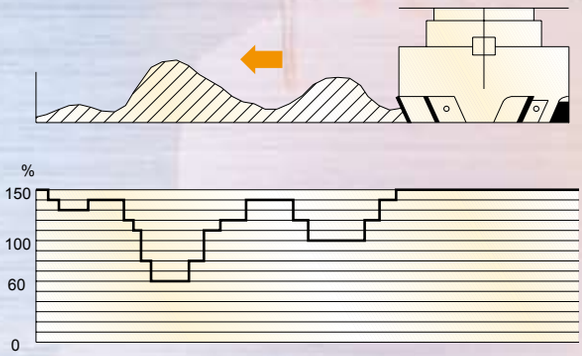
The T-base rigid structure full stroke support guarantees the most dynamic accuracy.



Pressure of coolant:
1.2kg/cm² 17.07psi;
4kg/cm² 56.89psi (opt.)

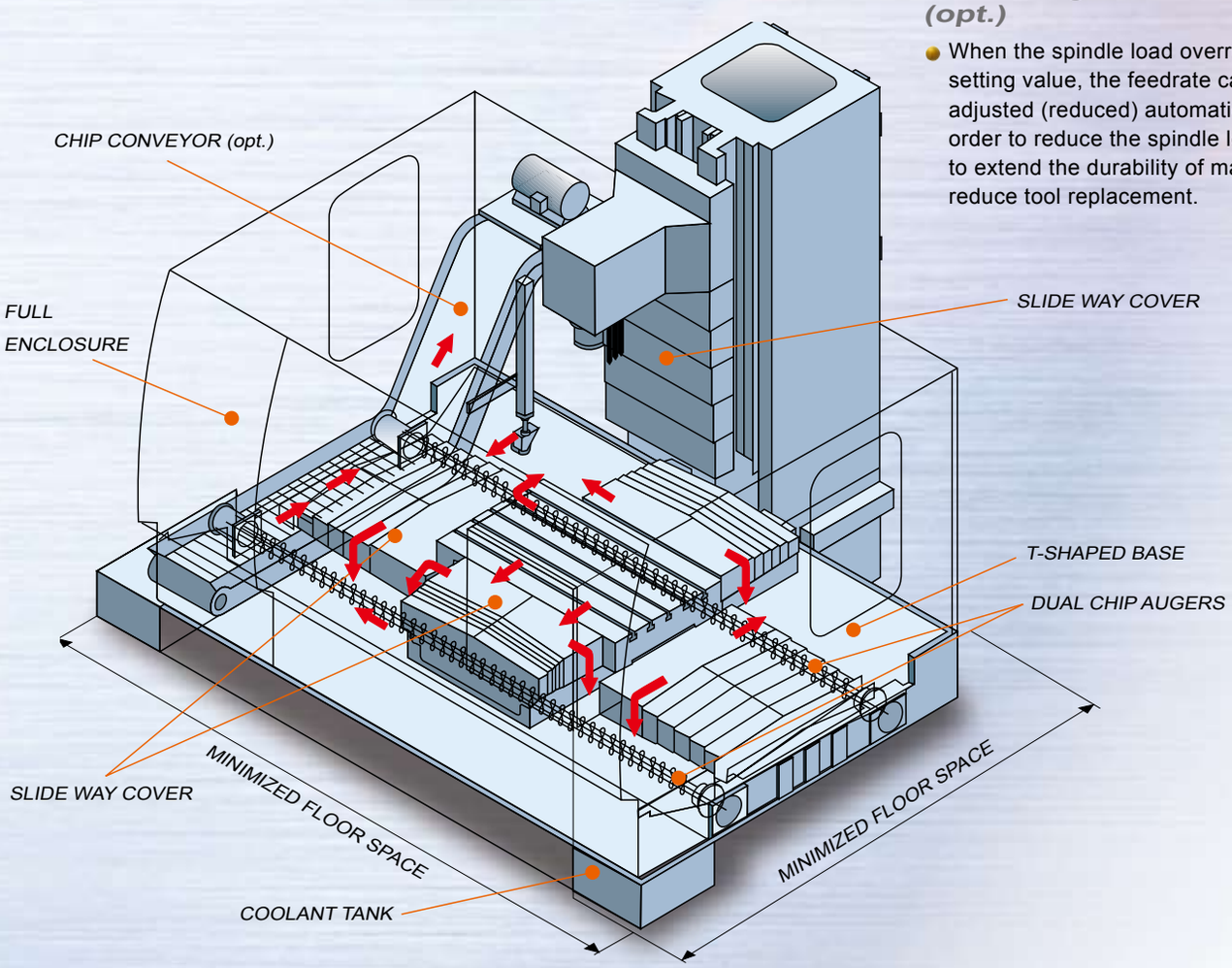


Coolant through spindle (opt.) Din69871 form a;
pressure: 10kg/cm² 142.23psi ;
20kg/cm² 284.46psi



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 Speed, High Precision Spindle Modules

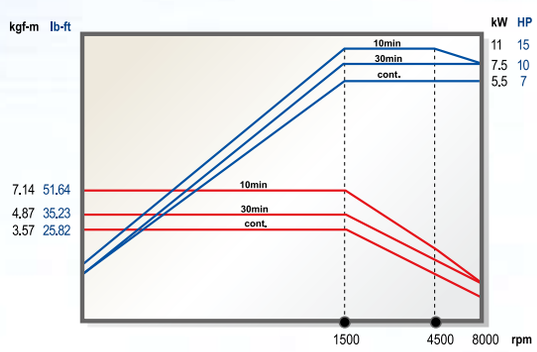
Various spindle modules of high speed and high power output suit different kinds of machining requirements.

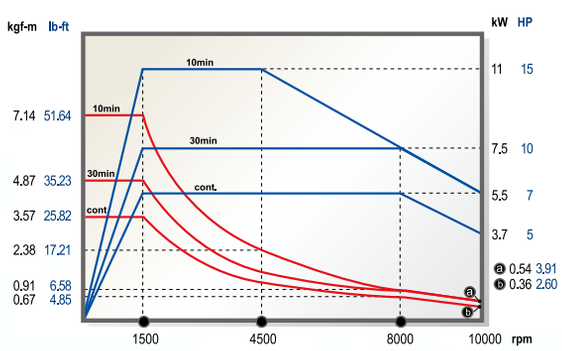
TV146A

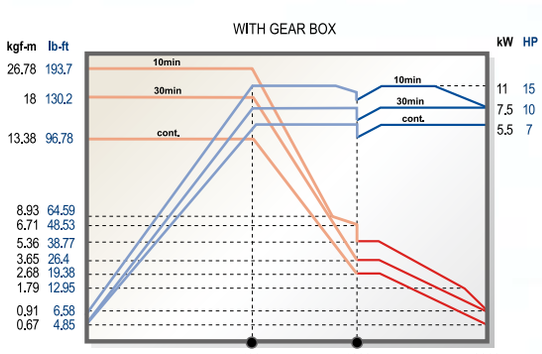
- The spindle is deployed with precise angular contact ball bearings and can reach up to 8,000rpm with maximum torque at 26.78kgf-m 193.70lb-ft.
- Powerful AC servo spindle motor is the standard equipment. Machining requirements.
- Powerful grip timing belts is used to prevent skid.
- 10,000rpm spindle with precise ceramic ball bearings can be selected for higher speed. (opt.)

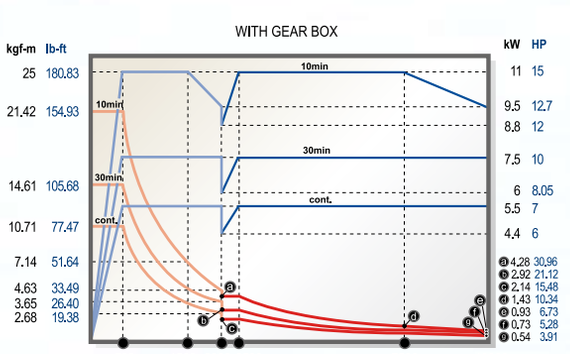
POWER
L Low Speed
H High Speed

TORQUE
L Low Speed
H High Speed









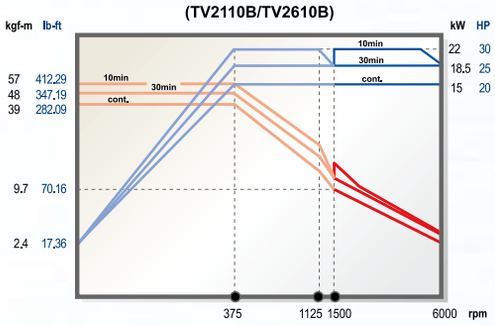
TV116B/TV146B/TV158B/TV188B/TV2110B/TV2610B

- Precision angular contact ceramic ball bearings of extra rigidity both axial- and radial-wises for very heavy cutting requirements.
- Standard gearhead spindle of maximum of 6,000rpm high speed with the max. of 18.5kW 25HP (30min.) power output and 48kg-m 347lb-ft torque.
- The max. spindle power output at 22kW 30HP (10min.) and torque at 57kgf-m 412 lb-ft with metal removal capacity at 600cc/min. (TV2110B/TV2610B)
- 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.

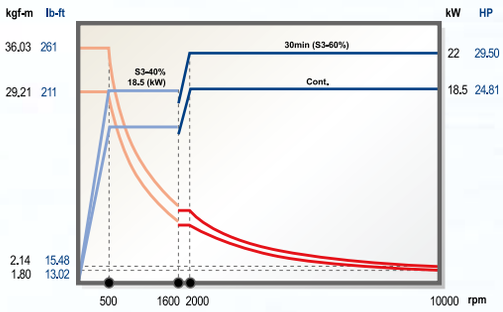
POWER
L Low Speed
H High Speed

TORQUE
L Low Speed
H High Speed

(TV2110B/TV2610B)

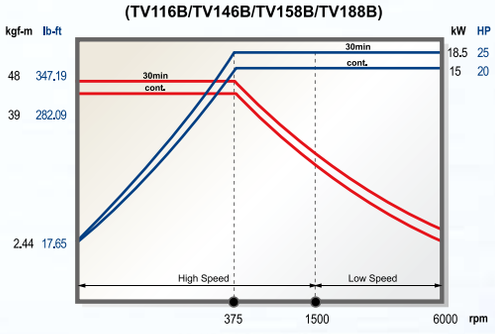


SPINDLE SPEED (Std.)

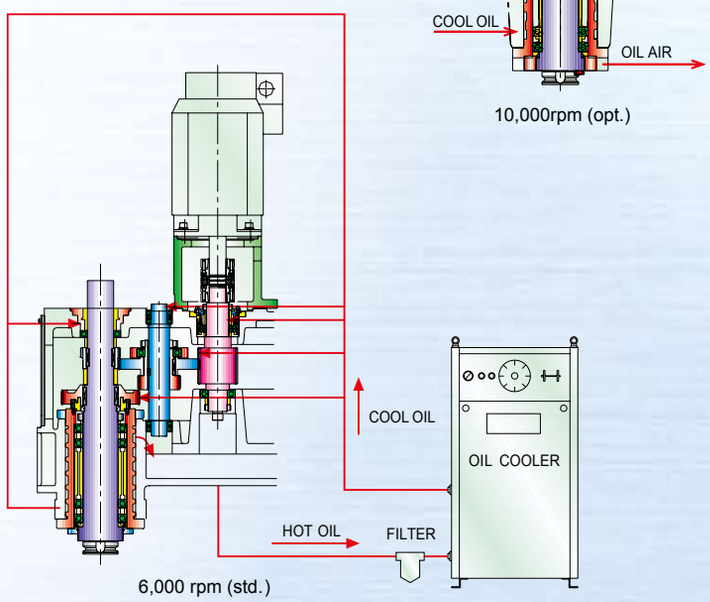


SPINDLE SPEED (Opt.)

(TV116B/TV146B/TV158B/TV188B)



SPINDLE SPEED (Std.)



10,000rpm (opt.)

6,000 rpm (std.)

TV Series

High Efficiency, High Performance, Fully Automated Production Equipment

Fast & Reliable ATC System

- The 20T umbrella type armless ATC system of 40# spindle machines is compact, reliable and easy to maintain.
- The arm type ATC sysstem is driven by roller gear cam to increase the work efficiency. Number of tool posts in magazine can be selected for 24T/30T(40#), or 32T(50#).

32T (50#)

24T / 30T (40#)

Reliable Automatic Pallet Changer System

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

		TV116B
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

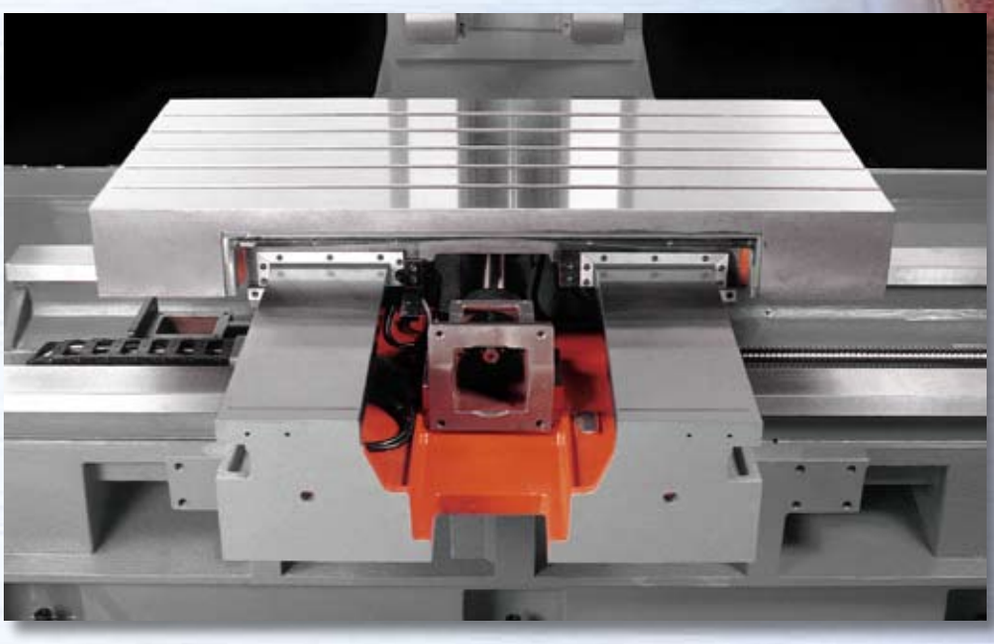
9mm Depth Face Milling (50#)

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 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

Standard / Tolerances		ISO 10791-4	JIS B 6338 (1985)
Axial Travel		Full Length	—
Positioning	**A**	0.014mm (0.00055")	0.004/300mm (0.00016"/11.81")
Repeatability	**R**	0.010mm (0.00039")	±0.003mm (±0.00012")

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.

TV116B Structure

Axial Rapid Feedrate

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

TV Series 146A/146B

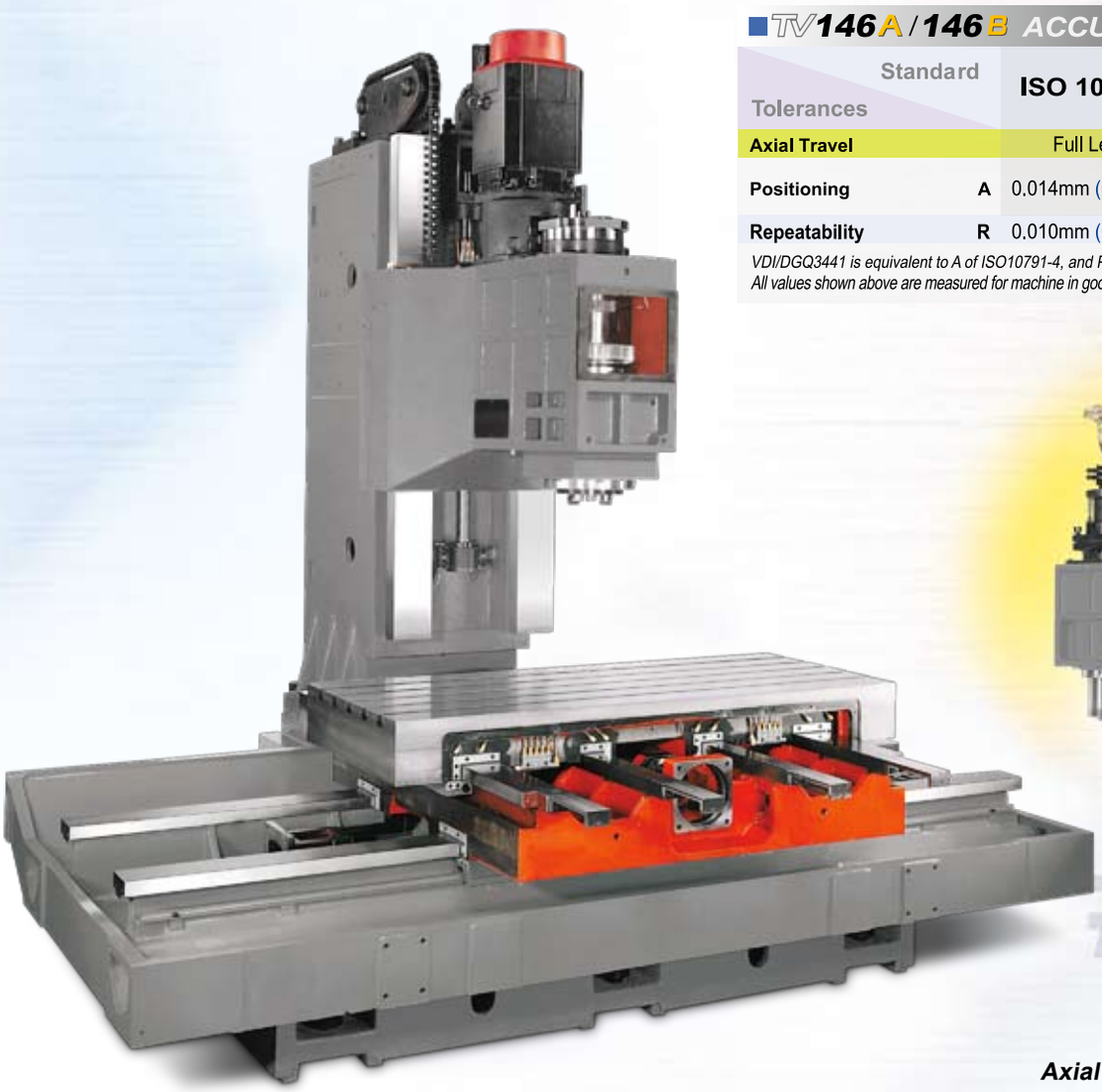
High Rigidity Axial Movement

- *All axes are equipped with hardened and precision ground integrated square guideway with durable Turcite-B lubrication coating.*
- *Sophisticated scraper work iguarantees 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.*

TV146A/146B ACCURACY

Standard / Tolerances		ISO 10791-4	JIS B 6338 (1985)
Axial Travel		Full Length	—
Positioning	A	0.014mm (0.00055")	0.004/300mm (0.00016"/11.81")
Repeatability	R	0.010mm (0.00039")	±0.003mm (±0.00012")

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.



TV146B Y-axis 4 Guideways Design

TV146A Headstock

#40

Axial Rapid Feedrate

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

TV Series 158B/188B

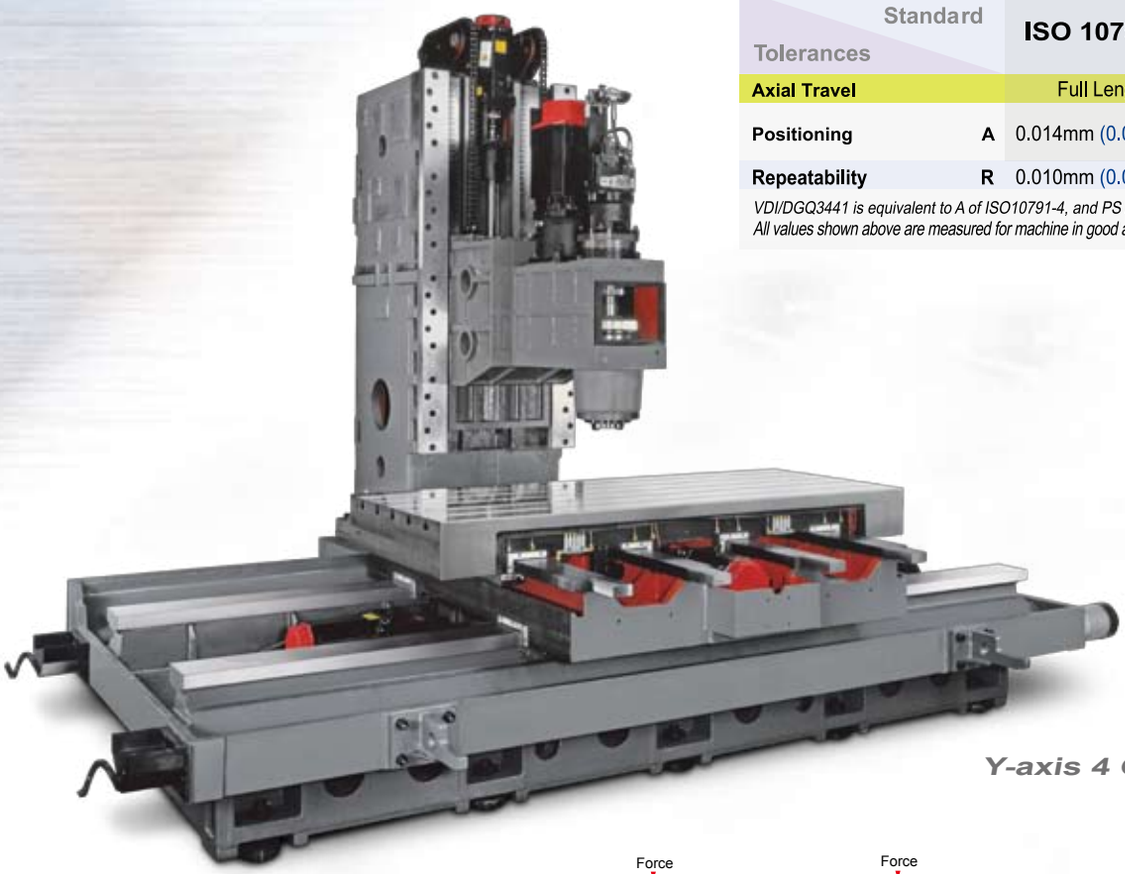
High Rigidity Axial Movement

- *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.*

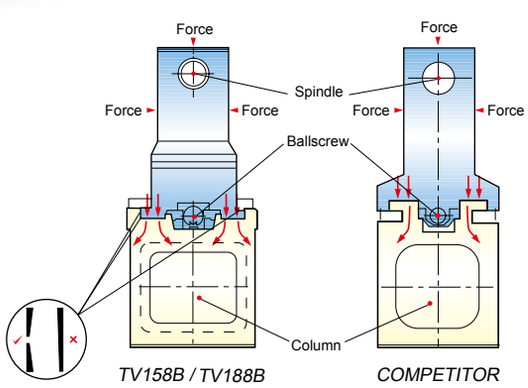
TV158B / 188B ACCURACY

Standard / Tolerances		ISO 10791-4	JIS B 6338 (1985)
Axial Travel		Full Length	—
Positioning	**A**	0.014mm (0.00055")	0.004/300mm (0.00016"/11.81")
Repeatability	**R**	0.010mm (0.00039")	±0.003mm (±0.00012")

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.



Y-axis 4 Guideways



TV158B / TV188B *COMPETITOR*

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-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.*
- *Y-axis is equipped with 4 guideways to gain the best support and to reinforce the axial movement.*
- *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.*

TV2110B/2610B ACCURACY

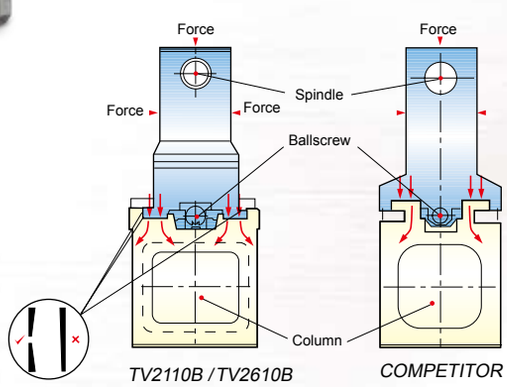
Standard / Tolerances		ISO 10791-4	JIS B 6338 (1985)
Axial Travel		Full Length	—
Positioning	A	0.014mm (0.00055")	0.004/300mm (0.00016"/11.81")
Repeatability	R	0.010mm (0.00039")	±0.003mm (±0.00012")

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.

High Rigidity Guideway Design

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

Y-axis Complex 4 Guideways Design



TV2110B / TV2610B *COMPETITOR*

Axial Rapid Feedrate

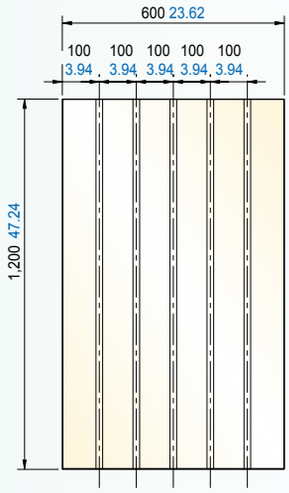
X	12m/min. 472ipm
Y	12m/min. 472ipm
Z	12m/min. 472ipm

TV Series 116B

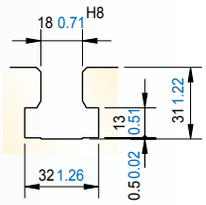
DIMENSIONS

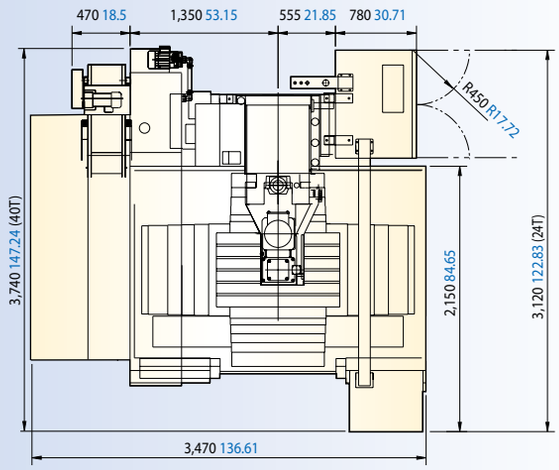
The appearance of the machines will be diverse due to different model.

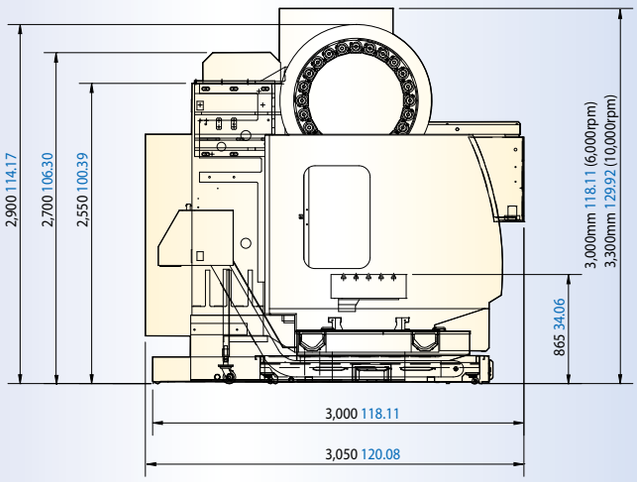
TABLE SIZE

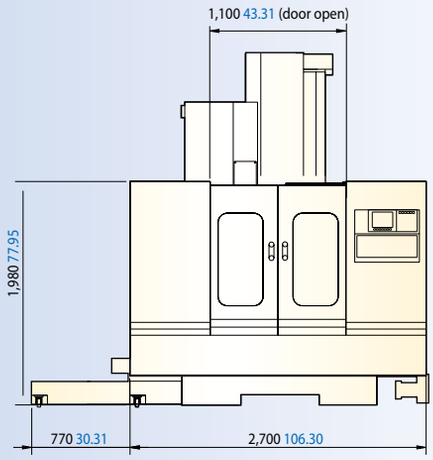


T-SLOTS







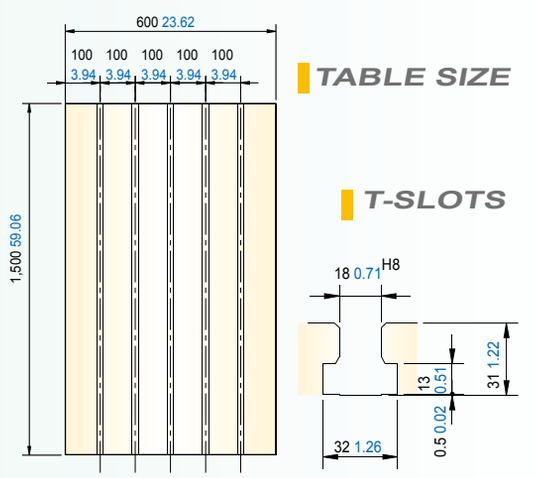


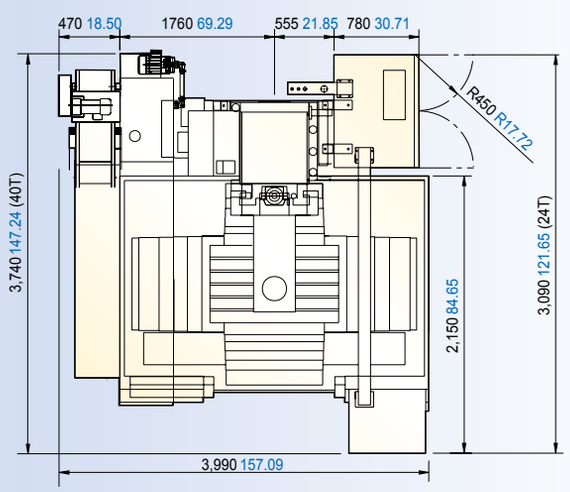
Unit : mm inch

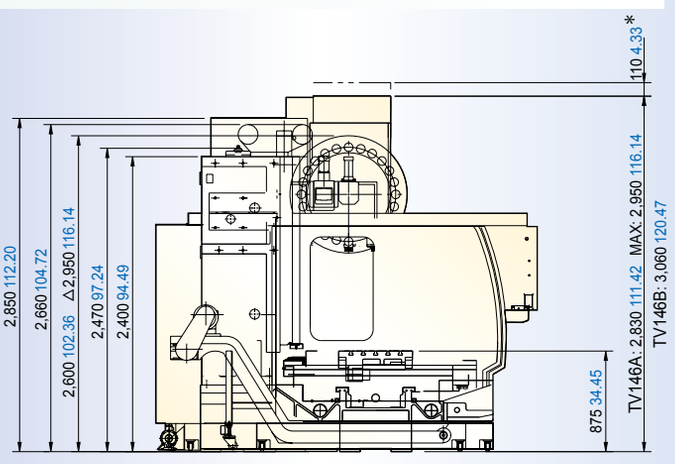
TV Series 146A/146B

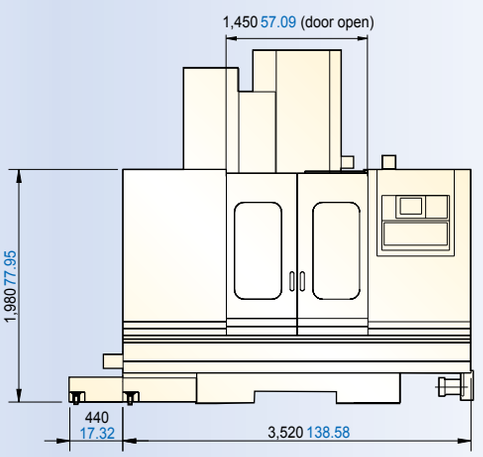
DIMENSIONS

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









∗ 110mm 34.33" : ATC Stroke for 20T (40#)

△2,950mm 116.14" : ATC Magazine Height of TV146B/24T

Unit : mm inch

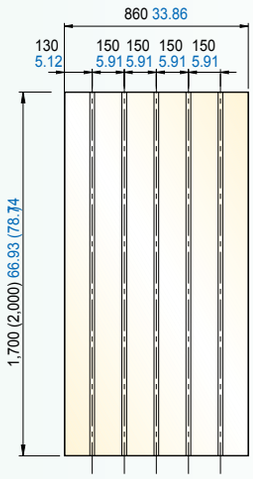
TV Series 158B/188B

DIMENSIONS

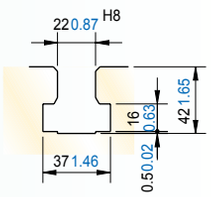
The appearance of the machines will be diverse due to different model.

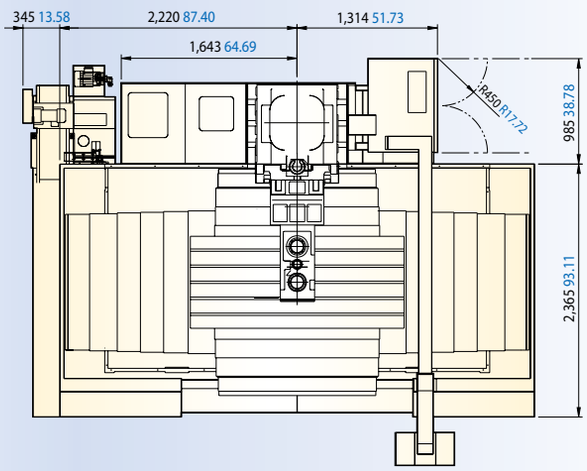
( ) For TV188B

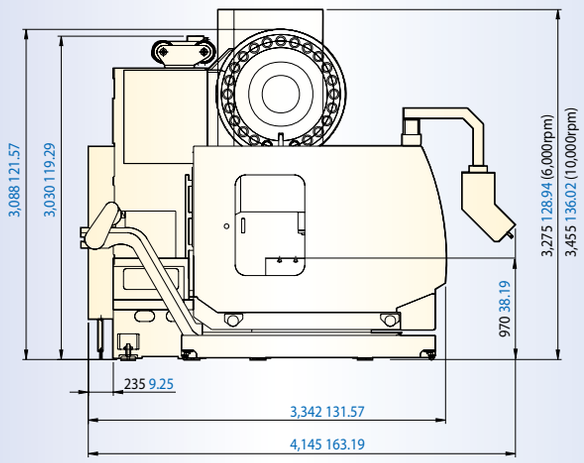
TABLE SIZE

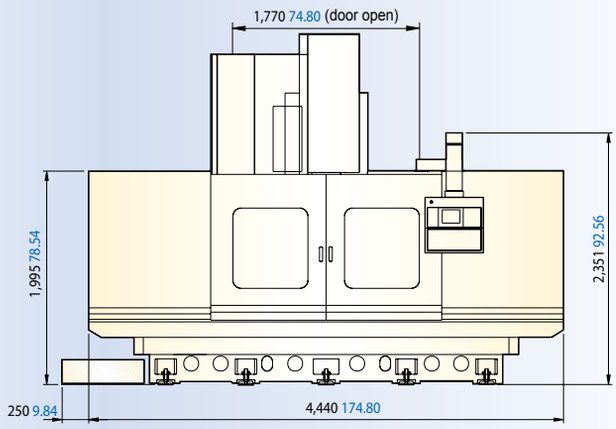


T-SLOTS









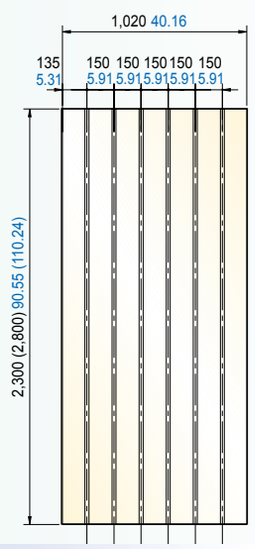
Unit : mm inch

TV Series 2110B/2610B

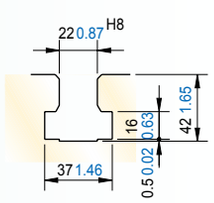
DIMENSIONS

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

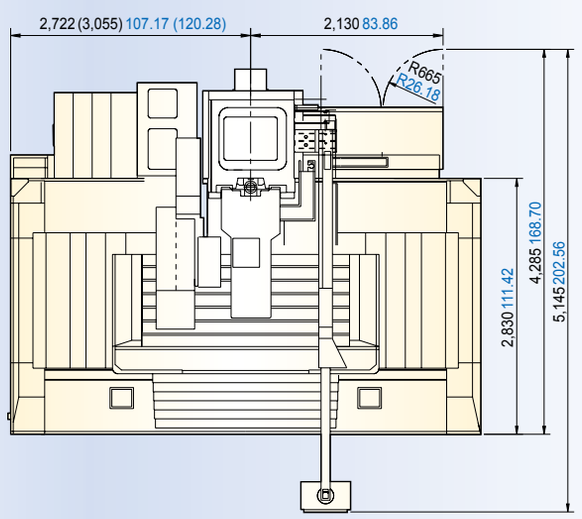
TABLE SIZE

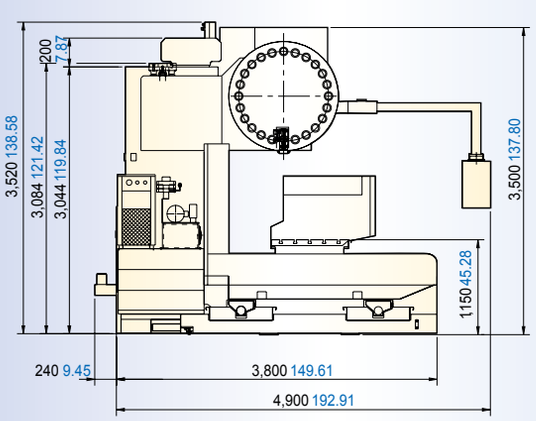


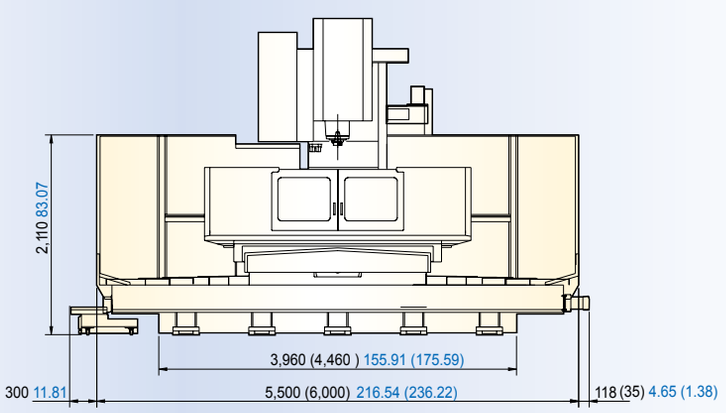
T-SLOTS



( ) For TV2610B



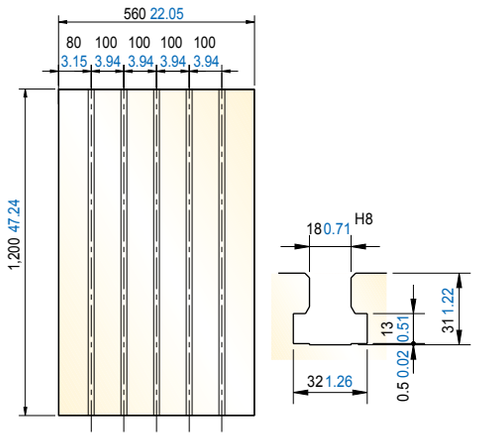


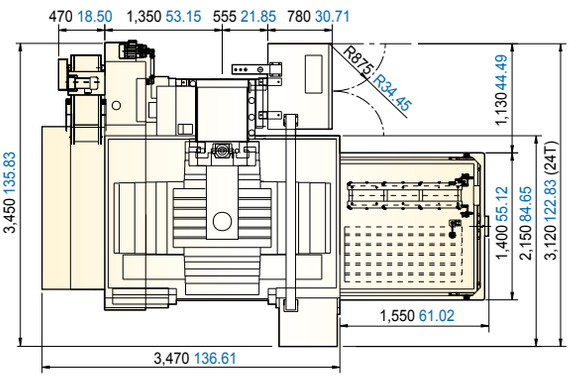


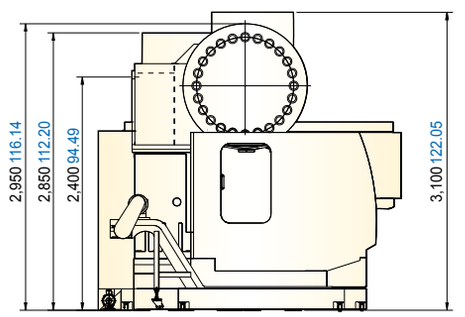
Unit : mm inch

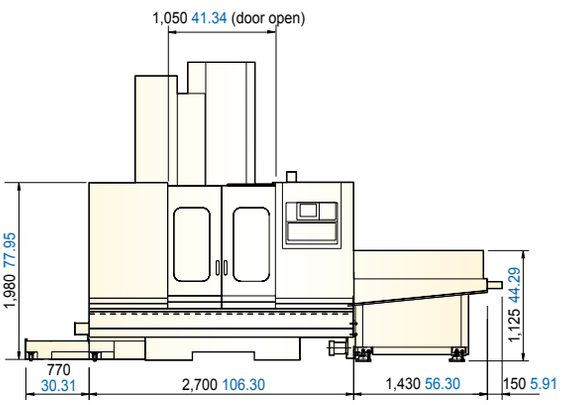
TV Series 116B + APC

DIMENSIONS



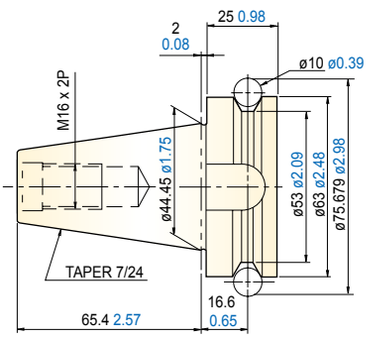




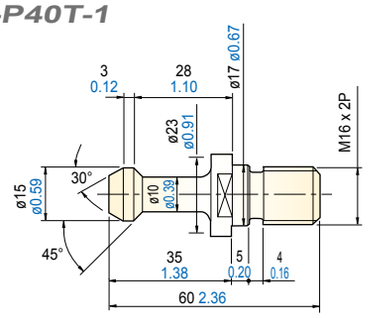


PULL STUD AND TOOL SHANK

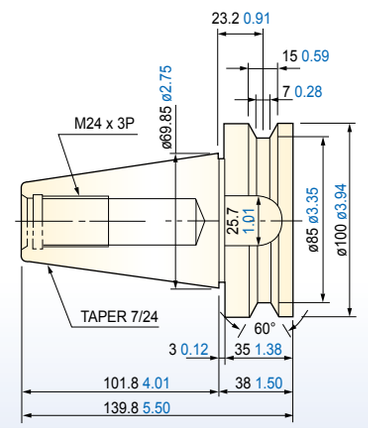
BT40



MAS-P40T-1



BT50



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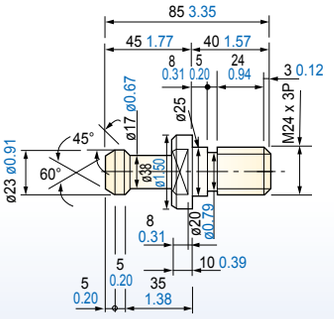


Unit : mm inch

SPECIFICATIONS

	TV146A	TV116B	TV146B	TV158B	TV188B	TV2110B	TV2610B
SPINDLE							
Spindle Speed (opt.)	45~8,000rpm (10,000rpm)	45~6,000rpm (10,000rpm)					
Spindle Taper	BT40	BT50(BBT50)10,000rpm					
Front Bearing Diameter	ø70mm ø2.76"	ø100mm ø3.94"					
TRAVEL							
X-axis Travel	1,400mm 55.12"	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	620mm 24.41"	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"	630mm 24.8"	750mm 29.53"	750mm 29.53"	762mm 30"	762mm 30"
Distance Between Spindle Nose & Table Top (APC)	142~772mm 5.59"~30.39"	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"	615mm 24.21"	920mm 36.22"	920mm 36.22"	1,070mm 42.13"	1,070mm 42.13"
TABLE							
Table size (APC)	1,500 × 600mm 59.06" × 23.62"	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)	1,500kg 3,307 lb	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)	875mm 34.45"	865mm (958mm) 34.06" (37.72")	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	1~5,000mm/min. 0.04~196.9ipm						
ATC							
Tool Magazine Capacity	20T (24/30/40T)	24T (32/40T)					
Max. Tool Dimensions	ø95 x 300mm (ø95/ø76/ø76 x 300mm) ø3.74" x 11.81" (ø3.54"/ø2.99"/ ø2.99" x 11.81")	ø110 x 350mm (ø120 x 350mm) ø4.33" x 13.78" (ø4.72" x 13.78")					
Max.Tool Dimensions (Without adjacent tools)	ø125mm (ø140/ø150/ø125mm) ø4.92" (ø5.51"/ø5.91"/ø4.92")	ø190mm (ø240mm) ø7.48" (ø9.45")					
Max. Tool Weight	6kg/pc 13 lb/pc	20kg/pc 44 lb/pc					
Tool Changer Method	Armless (Arm Type)	Arm Type					
Tool Selection Method	Sequence (Random)	Random					
GENERAL							
Spindle Power	5.5/7.5/11kW (7.5/11/15kW) 7/10/15HP (10/15/20HP)	15/18.5kW (18.5/22kW) 20/25HP (25/30HP)				15/18.5/22kW (18.5/22kW) 20/25/30HP (25/30HP)	
Lubrication Pump Motor	75W						
Pneumatic Supplier	5.5kg/cm^2 78.2psi						
Power Consumption	27kVA (30kVA)	48kVA (65kVA)		55kVA (65kVA)		57kVA (65kVA)	
Machine Weight (APC)	12,000kg 26,455 lb	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

●: Standard ○: Option —: None

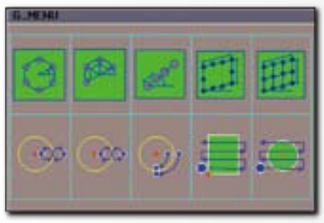
ITEMS \ MODEL	146A	116B	146B	158B	188B	2110B	2610B
Tool Kit	●	●	●	●	●	●	●
Work Lamp	●	●	●	●	●	●	●
Pilot Lamp	●	●	●	●	●	●	●
Optical Scale	○	○	○	○	○	○	○
Gear Box	○	●	●	●	●	●	●
Foundation Bolts	○	—	—	—	—	—	—
Coolant Equipment System	●	●	●	●	●	●	●
Oil Skimmer	○	○	○	●	●	●	●
Splash Guard	—	—	—	—	—	●	●
Coolant Gun	●	●	●	●	●	●	●
Spindle Air Blast	●	●	●	●	●	●	●
Cutting Air Blast	●	●	●	●	●	●	●
Oil Hole Holder Function	○	○	○	○	○	○	○
Automatic Power Off Device	○	○	○	○	○	○	○
Oil-mist Coolant System	○	○	○	○	○	○	○
Chip Enclosure(with Top Cover)	●	●	●	●	●	●	●
Chip Enclosure(without Top Cover)	○	○	○	○	○	○	○
Automatic Pallet Changer (APC)	—	○	—	—	—	—	—
Central Lubrication System	●	●	●	●	●	●	●
Spindle Cooling System	○	●	●	●	●	●	●
Coolant Through Spindle System	○	○	○	○	○	○	○

ITEMS \ MODEL	146A	116B	146B	158B	188B	2110B	2610B
4th Axis Rotary Table	○	○	○	○	○	○	○
Leveling Blocks and Bolts	○	●	●	●	●	●	●
Guideway Cover (X,Y,Z)	●	●	●	●	●	●	●
Rigid Tapping	●	●	●	●	●	●	●
Hydraulic System	○	●	●	●	●	●	●
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	○	○	○	○	○	○	○
Full Chip Enclosure	○	○	○	○	○	○	○
Workpiece Measurement System (RENISHAW OMP60)	○	○	○	○	○	○	○
Auto Tool Length Measurement System (METROL T24E-04-08)	○	○	○	○	○	○	○
CNC Control: YEONG CHIN FANUC MXP-200FB	●	●	●	●	●	●	●

MXP-200 FB/FC

YCM CONTROL
by FANUC

- High Performance AC Digital Servo & Spindle Drives with Super Precision Absolute Positioning Encoders
- AI NANO CNC Controller for High Precision Operation in Nanometers and Acknowledged HRV Control
- AICC II High Speed High Accuracy JERK Function & Auto Switching on/off Machining Control Function
- High Speed High Accuracy Rigid Tapping, Helical Interpolation, Custom Marco B, and Tool Path Graphics
- Manual Guide i with Big & Double Screen Display (MXP-200FC, opt.)
- Program File Management for Easy Program Classifying
- USB Drive Port for Easy Parameters & CNC Programs Transfer
- Large Program Capacity with 1,280 Meters of Memory
- High Speed Positioning Function (MXP-200FC, opt.)
- Memory Card Program Edit & Operation (opt.)
- 3D Interference Check (opt.)
- NANO Smooth (opt.)



G-menu Function

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 3D graphical display and full simulation function

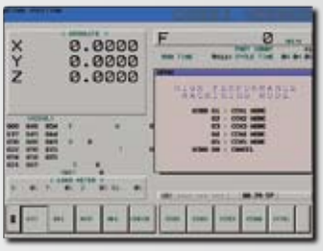
Counter Function

Allows user to easily keep track on number of workpieces with:

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

Intelligent Tool Data Management

Comprehensive tool data management function allows operators to monitor and manage all positions in tool magazine



High Speed Machining Mode: M400

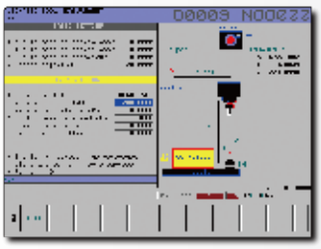
Combined with artificial intelligence, M400 provides users more convenient and easier ways of operation and achieves fast cycle time for the best machining result.

Pop-up Alarm Display

Detailed troubleshooting procedures will be automatically displayed when machine alarm occurs that allows users to restore machine status and minimize down time

Intelligent Maintenance Reminder

Pre-set maintenance schedules are programmed to remind operators to inspect periodically prolonging machine life



Automatic Tool Length Measurement

Pre-set macros and graphical procedure are provided for 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 another

1. 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.
2. The functions of the controllers will be distinct due to different model and selectivity.

i OPERATION plus

Software enhancement exclusively from YCM

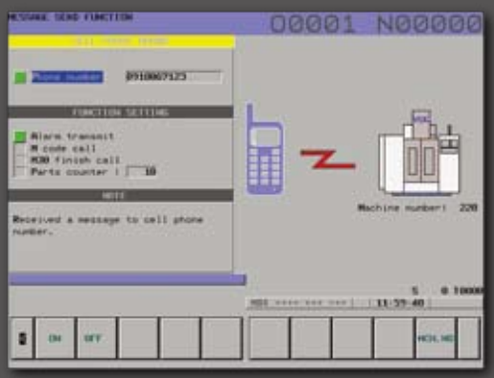
Multi-function Display

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

- G-code Status
- M-code Status
- Spindle Status
- Controller Running Hours
- Feedrate
- Tool Data
- Work Coordination
- Spindle Load
- Parts Count
- Machining Hours
- Date and Time
- 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 to achieve the fastest cycle time with best machining results. Machining efficiency improved by 25% without sacrificing machining accuracy.



Wireless Message Notification (opt.)

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

YCM® PRODUCT LINES

VMC — Vertical Machining Center


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

FV Series *High Speed High Performance Vertical Machining Center / High Speed High Performance Drilling & Tapping Center*
FV56T, FV56A, FV85A, FV102A, FV125A / FV50T


XV Series *High Performance Vertical Machining Center*
XV560A, XV1020A, XV1250A

NXV Series *High Precision Vertical Machining Center*
NXV1020A/AM


TV Series *Heavy Duty Vertical Machining Center*
TV116B, TV146A/B, TV158B, TV188B, TV2110B, TV2610B

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

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

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


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

NBX Series *High Performance Swivel Head 5-axis Vertical Machining Center*
NBX102A

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, DCV4030B-5AX, DCV5030B-5AX, DCV6030B-5AX, DCV4030B-5AF

NDC Series *High Performance Double Column Vertical Machining Center*
NDC2016B, NDC3016B, NDC4016B

HMC — Horizontal Machining Center


H Series *High Production Horizontal Machining Center*
H500A/B, H630B, H800B, 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-axis 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

INTEGRATION AND SOLUTIONS

Integrated Operation Control System iOPERATION plus — Software Enhancement Exclusively from YCM

Spindle Thermal Compensation System STC PLUS

Remote Monitoring System i-Direct — A remote monitoring system

Automation Solutions

YCM®

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