

MYTECH[®]

ELEGANCE IN TECHNOLOGY



CE

MYTECH[®] Machining Center

series

Direct drive spindle : 10,000/12,000 RPM

X,Y,Z -axis travel : 1100 x 600 x 600mm

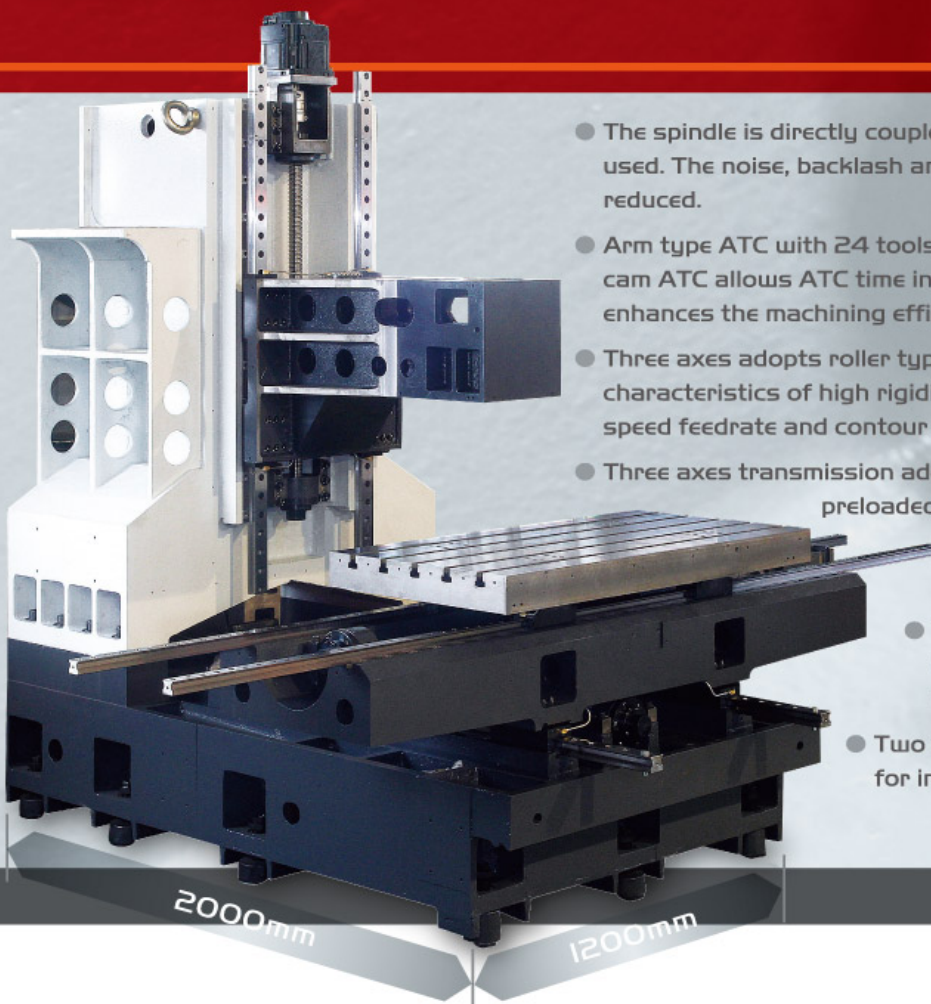
Table size : 1200 x 600mm

Arm type 24 tools ATC

Linear guideway on three axes



MT-166 Vertical Machining Center



- The spindle is directly coupled to the main motor. No belt or gear is used. The noise, backlash and vibration effects are dramatically reduced.
- Arm type ATC with 24 tools capacity. Fast and reliable roller gear cam ATC allows ATC time in 1.5 second, lowers the idle time and enhances the machining efficiency.
- Three axes adopts roller type linear guideway. It ensures the characteristics of high rigidity, low noise and low friction. High speed feedrate and contour cutting accuracy are achieved.
- Three axes transmission adopts C3 class high precision double nut preloaded ballscrews Dia.40 mm.
- Reinforced column base greatly increase structural strength.
- The large front door is convenient for workpiece loading / unloading and fixture set-up.
- Two super large side windows are standard for installation and cleanness.

series

Built in type : 10,000/12,000 RPM

X,Y,Z –axis travel : 800 x 500 x 500mm

Table size : 800 x 450mm

Feedrate is 36m/min

Linear guideway on three axes



MT-855 Vertical Machining Center

MT-745 Vertical Machining Center



- The ATC of supporting seat and column are one-piece

series

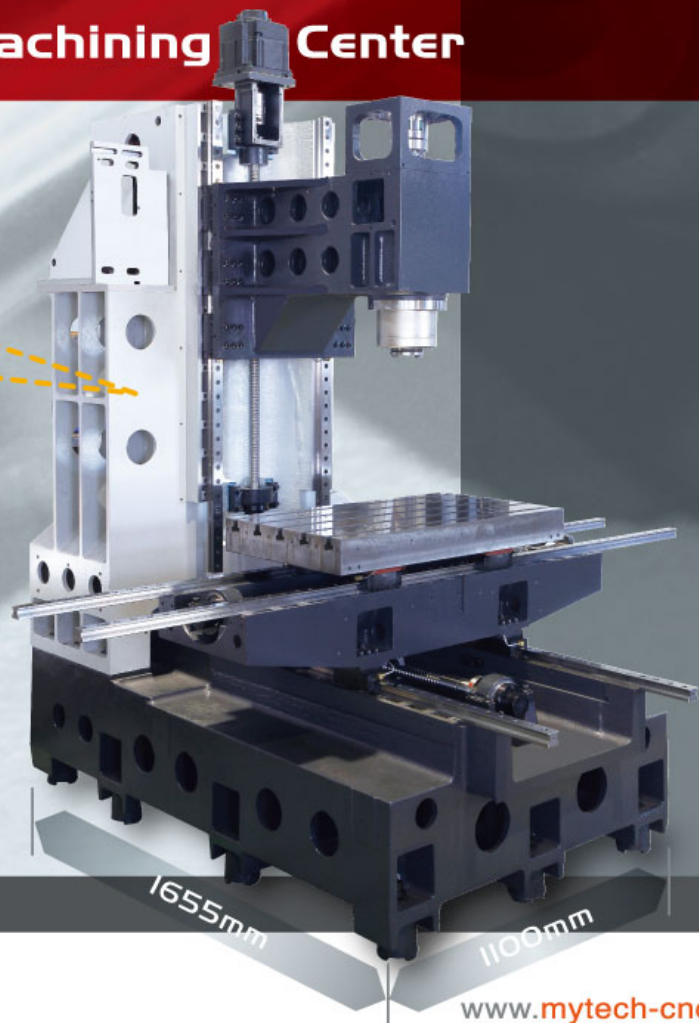
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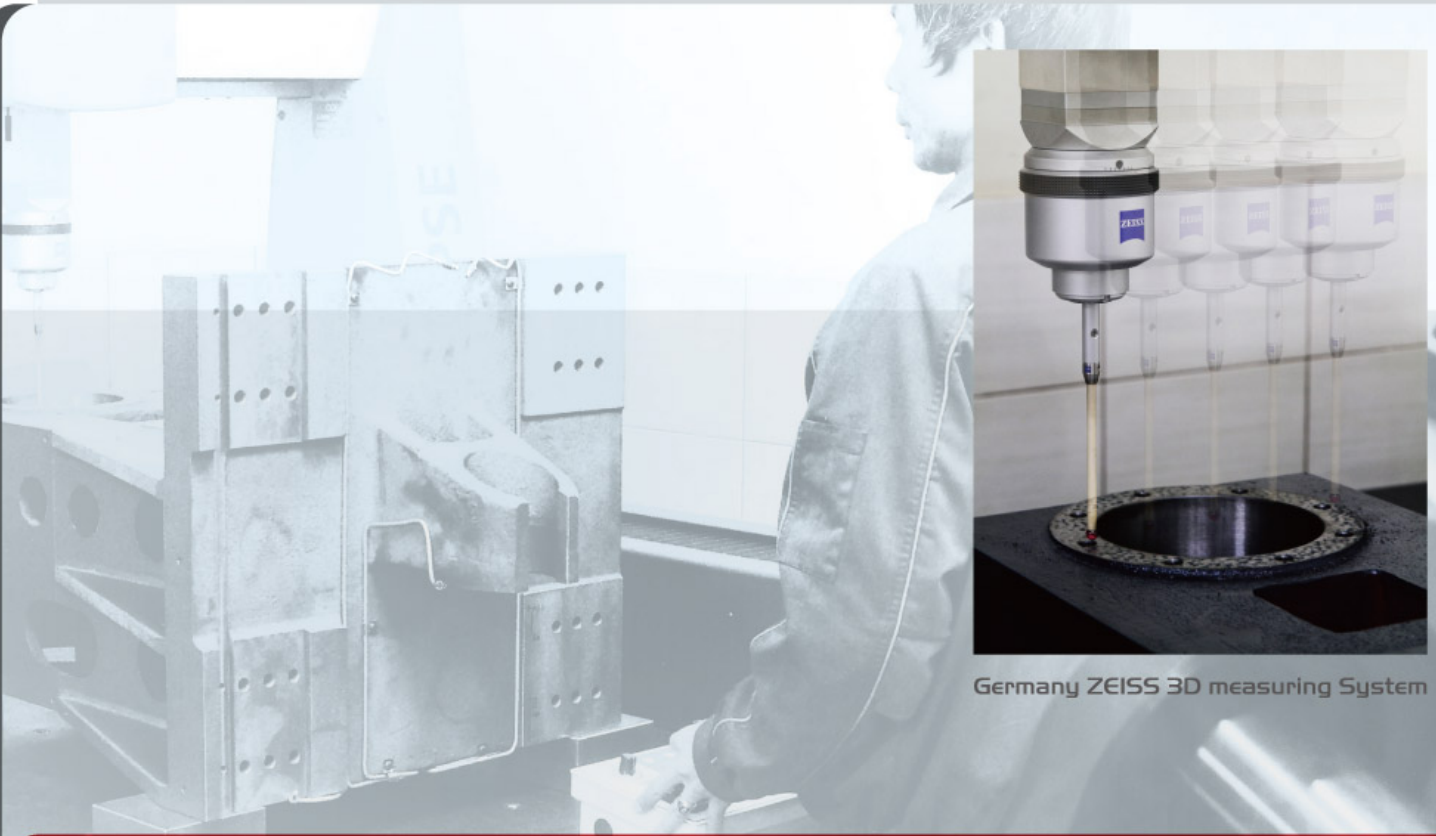
X,Y,Z –axis travel : 700 x 500 x 500mm

Table size : 800 x 450mm

Arm type 36 tools ATC

Linear guideway on three axes



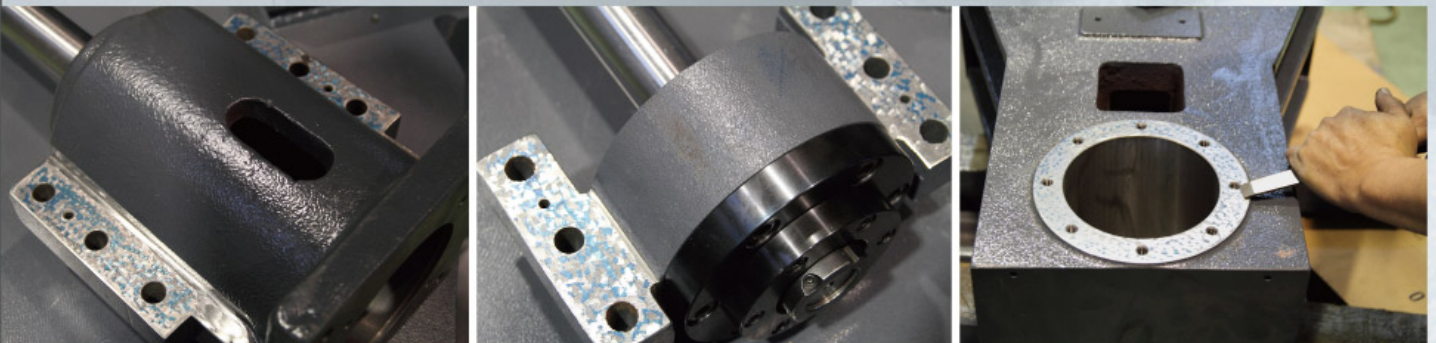


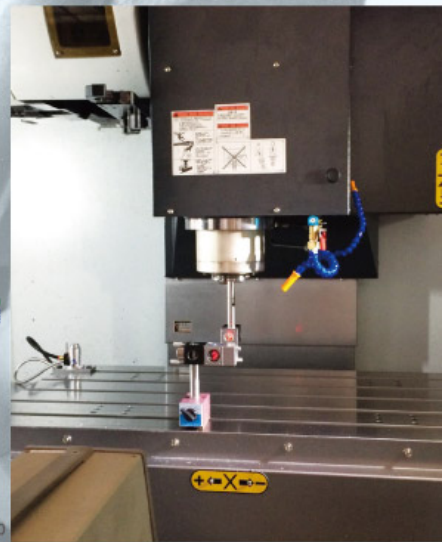
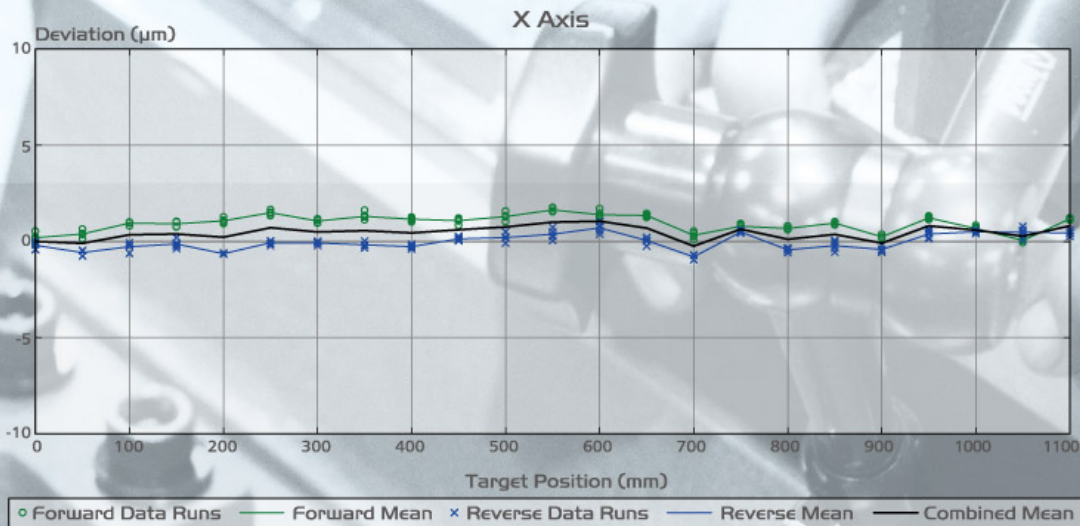
Germany ZEISS 3D measuring System

Quality Control

MYTECH is the manufacturing factory who had Germany ZEISS 3D measuring equipment in Taiwan. All precision components are produced by us. The spirit of MYTECH is "Customers first, Best service, Excellent quality." We are able to offer the varieties of our products and services to meet the different inquiries by customers.

MYTECH provides the customers the good quality and high-precision milling machines which are also upgrade the product competitiveness for our user customers. We will insist on quality to earn long-term collaboration and development.





Renishaw Laser

- In order to ensure product quality and meet customer needs, Mytech use Renishaw high precision instruments to detect precision laser and Ball Bar for ensuring position accuracy and excellent roundness.

Ballbar diagnostics (%)

103319XY2

Operator : Yung

Date : 2014 - Nov - 22 11 : 58 : 51



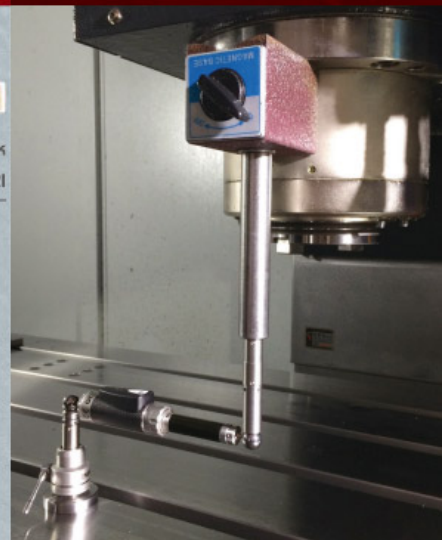
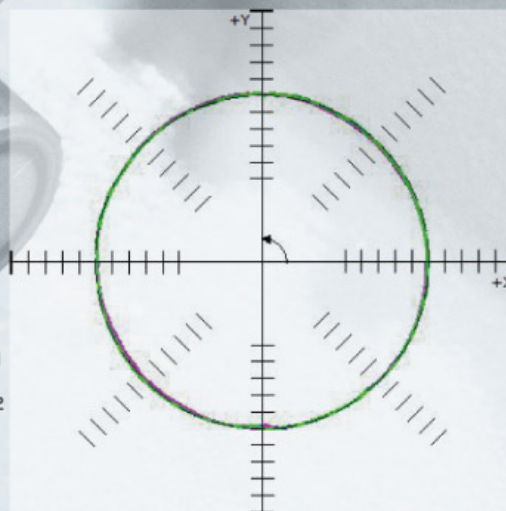
Machine : Quick check

QC20 - W : 453F12, Last calibrated 2014 - 08 - 21

- 25% Reversal spikes Y
 - ▲ -1.0 μm
 - ▼ -2.3 μm
- 10% Lateral play Y
 - ▲ -0.1 μm
 - ▼ -1.4 μm
- 10% Squareness
 - 6.1 $\mu\text{m}/\text{m}$
- 10% Scaling mismatch
 - 1.8 μm
- 7% Cyclic error X
 - ↑ 0.7 μm
 - ↓ 0.5 μm

Circularity 3.4 μm

- Run 1
- Run 2
- Fit 1
- Fit 2



Ball Bar



Lubrication and Pressure System

- Both save money and environmental protection of the lubricating mechanism, pneumatic pump to provide three axes lubrication and build centralized equipment of pressure system.



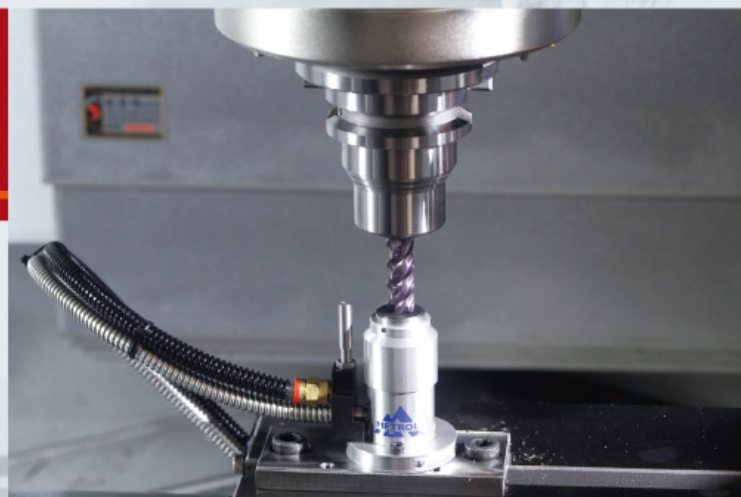
Tool cabinet



Spindle oil cooler system

- For continuous and very high spindle speeds, the spindle cooling system efficiently takes away spindle heat, reduces spindle thermal deformation and ensures high speed accuracy.

Standard Accessories



Automatic tool length measuring device

- The automatic tool length measuring system can measure and offset the tool length data onto the CNC controller automatically.



Arm type 24 tools ATC



Oil skimmer system

- The disc type oil skimmer system is used for removing floating oil on coolant, preventing coolant deterioration and odor.



Full – closed splash guard

- Full guard with a guard on the top to preventing oil mist pollution.



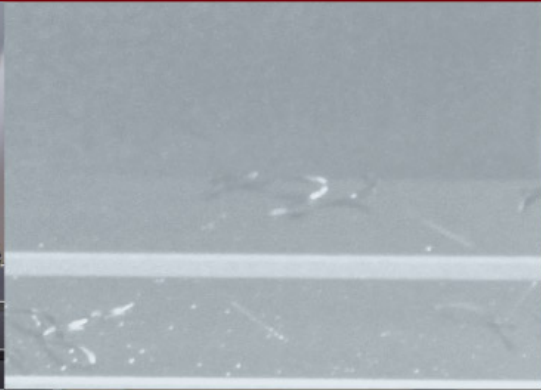
Chip conveyer system for cutting aluminum

- Aluminum user's first choice, easy to clear cutting aluminum scrap collecting box.

Special Accessories



- Each machine are via standard test observing the cutting block completed Germany ZEISS 3D testing, strict quality control to ensure the accuracy guarantee.



Rotary table with Manual tailstocks



Automatic power off

- Opening the front door and two side windows during machining will cause an emergency stop and ensures the operator's safety.



Mitsubishi controller (M70A/M720)

Fanuc controller (Oi-MF/3i-MF)

Siemens controller (828D/840D)

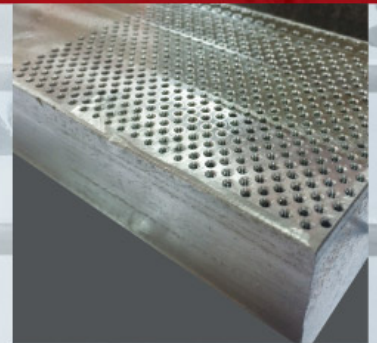
- The control panel meets the safety requirements easy to learn and operate.
- The controller has breakage detection system. (Optional Equipment)

Cutting Capability

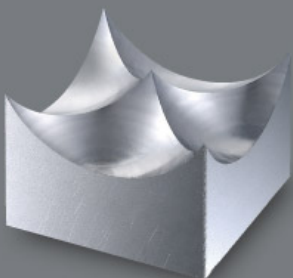
Widely used in molds, auto parts, medical equipment and other processing.



Artificial joints



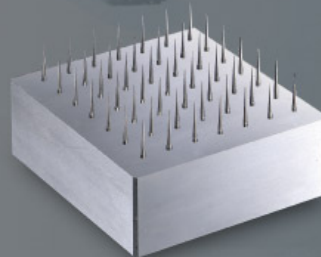
Tapping M2 x 0.4 pitch



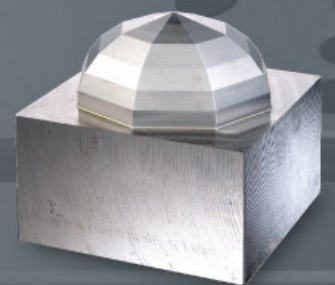
Workpiece



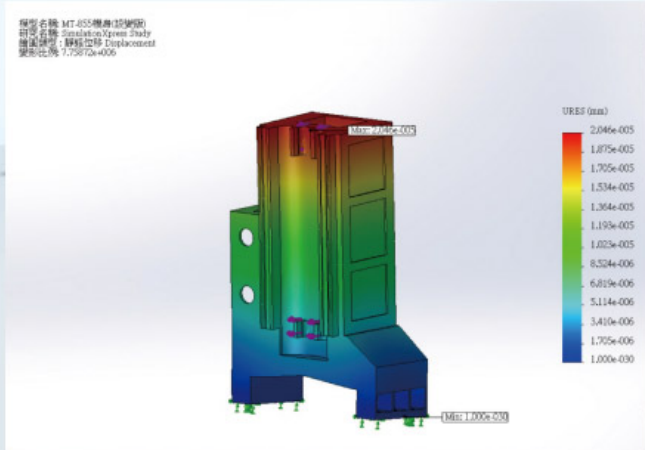
Spiral



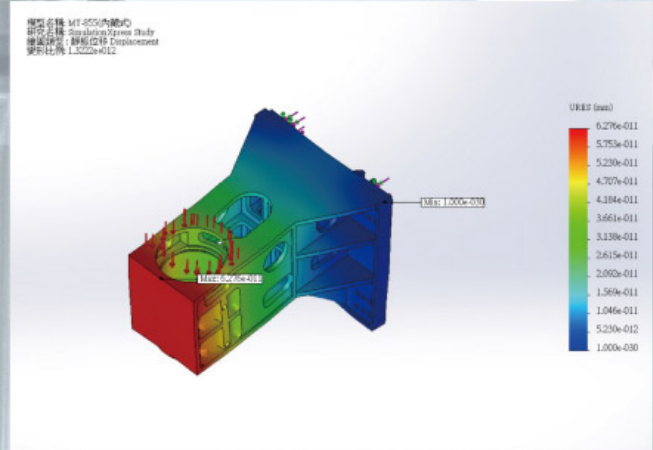
Deep needle



Lampshade

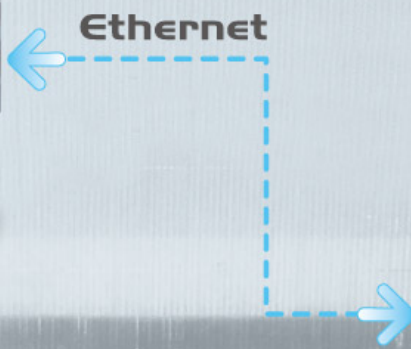


Column strain analysis



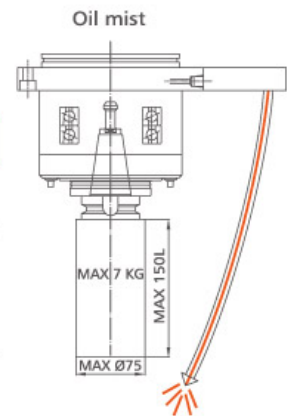
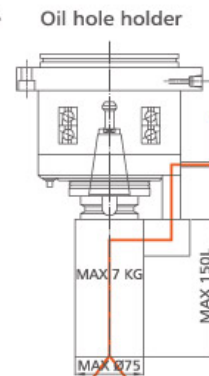
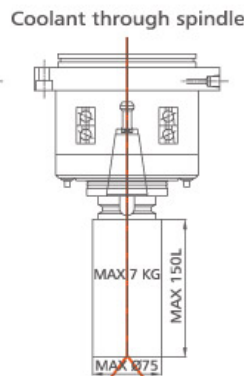
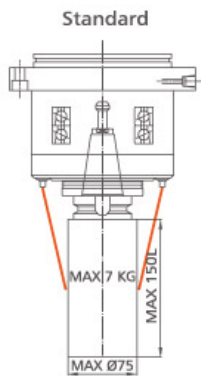
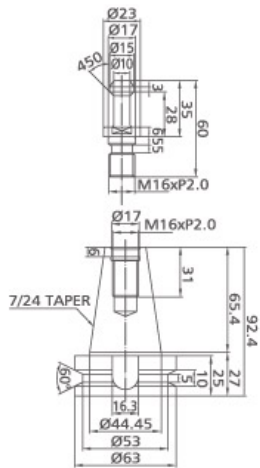
Spindle head strain analysis

Ethernet Support Function

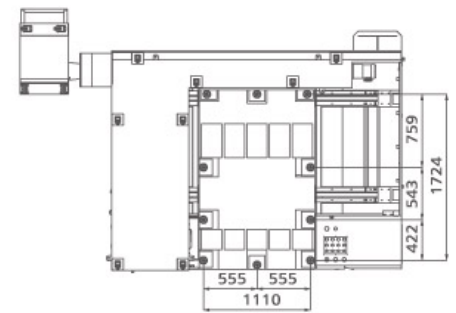
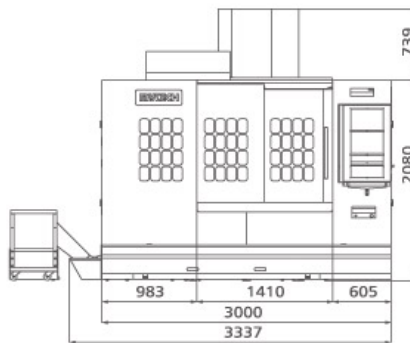
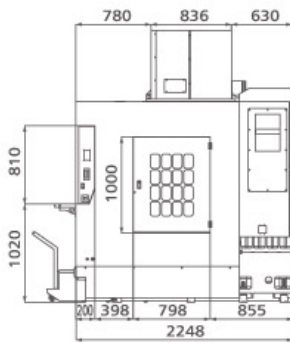


- Using transmission network, centralized management by PC processing program, you can instantly edit and quickly transfer the program to the machine, shorten lead time to prepare.

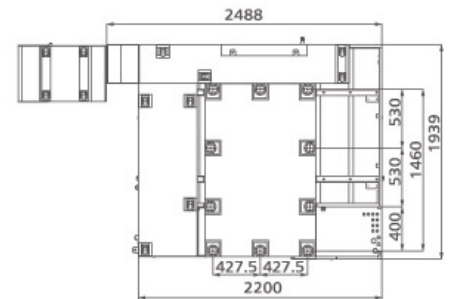
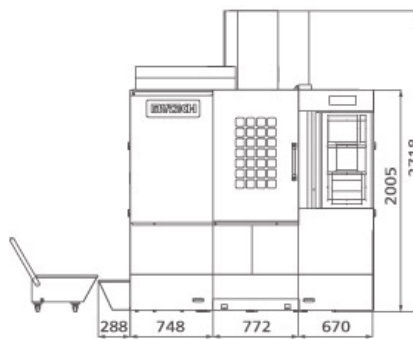
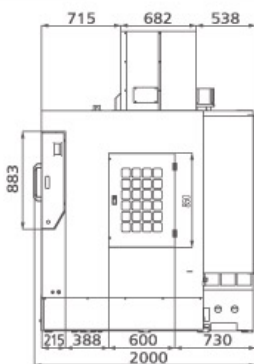
Tool shanks & Pull studs



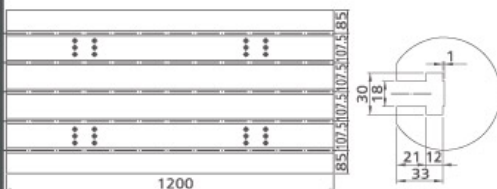
MT-166 Dimensions



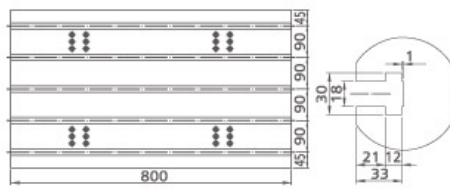
MT-855/MT-745 Dimensions



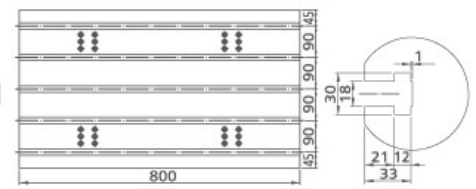
MT-166 Table Size



MT-855 Table Size



MT-745 Table Size



Specification

Accessories

MODEL		MT-166	MT-855	MT-745
TABLE		UNIT		
Size	mm	1200x600	800x450	800x450
T-slot (width x no x distance)	mm x T	18x5x107.5	18x5x90	18x5x90
Maximun table load	kgs	800	300	300
TRAVEL				
X,Y,Z -axis	mm	1100x600x600	800x500x500	700x500x500
Spindle nose to table surface	mm	110-710	75-590	75-590
Spindle center to column slide ways	mm	650	580	580
Roller type linear guideway(X/Y/Z)	mm	35/45/45	30/35/35	30/35/35
SPINDLE				
Spindle holder		Direct type	Direct type	Direct type
Taper		BT40	BT40	BT40
Diameter	mm	φ 70	φ 70	φ 70
Spindle speed	rpm	10000	10000	10000
FEED				
Three axes		Linear guideway	Linear guideway	Linear guideway
Cutting feedrate X/ Y/ Z (G01) m/min		10/10/10	10/10/10	10/10/10
Rapid feedrate X/ Y/ Z (G0) m/min		36/36/36	36/36/36	36/36/36
ATC				
Tool selection		Auto tooling changing	Auto tooling changing	Auto tooling changing
Max. tool Dia	mm	φ 75 / φ 150	φ 75 / φ 150	φ 75 / φ 150
Max. tool length	mm	300	300	300
Max. tool weight	kgs	7	7	7
Tool type		BT40	BT40	BT40
Tool magazine capacity (Arm type) T		24	24	24
MOTORS				
Spindle motor (30 min. rating / continuous rating)	kw	11/15	7.5/11	7.5/11
X/ Y/ Z-axis drive motors	kw	2/2/3 Mitsubishi 3/3/4 Fanuc 3.3/3.3/4.8 Siemens	2/2/3 Mitsubishi 1.6/1.6/4 Fanuc	2/2/3 Mitsubishi 1.6/1.6/4 Fanuc
X/ Y/ Z-axis Ball screw		φ 40	φ 32	φ 32
Coolant pump	w	1270	1270	1270
ATC motor	w	350	350	350
Air conditioner	w	500	500	500
Spindle oil cooler	w	600	600	600
Chip flush motor	w	2540	1270	1270
OTHER				
External dimensions (LxWxH) mm		3460x2400x2600	2200x1955x2500	2200x1955x2500
Splash Guard		Full-closed splash guard	Full-closed splash guard	Full-closed splash guard
Coolant tank capacity	L	330	140	140
Weight	kgs	7300	4500	4500
Total power consumption	kw	25	20	20

Standard Accessories

- Full-closed splash guard
- Guideway cover (X,Y,Z)
- Oil skimmer system
- Water gun and air gun
- Chips flush coolant system
- Tools box
- Work lamp
- Arm type 24 tools ATC
- Automatic lubrication system
- Heat exchanger
- Alarm light
- MITSUBISHI controller M70A
- Automatic tool length measuring device
- Screw type chip conveyer
- Spindle oil cooler system

Option Accessories

- FANUC controller Oi-MD
- SIEMENS controller
- Spindle speed 12,000/15,000RPM
- Spindle speed 20,000/24,000RPM (Built in type)
- Coolant through spindle
- Air conditioner
- Transformer
- Voltage regulator
- Flat type chip conveyer
- CE
- 3-Axes optical scale
- Breakage detection system
- Oil Mist Collector



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