

Persuing Excellence · Winning Respect



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Machine
WINNER
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World Class **VMC**
Box Ways Series

www.winnerstech.com.tw



VMC-D/E 850/1000

2 - Box Ways

HIGH QUALITY · SUPER RIGIDITY · EXTREME VERSATILITY

BOX TYPE SLIDEWAYS ON 3-AXES are equipped with Meehanite casting which has been dispatched by heat treatment, quench & tempering, enhance the high rigidity and long-life accuracy.

WIDE BASE, BOX-SHAPED COLUMN enhanced saddle and full supported structure, all contribute to the ability for heavy duty machining and also free from load deformation.

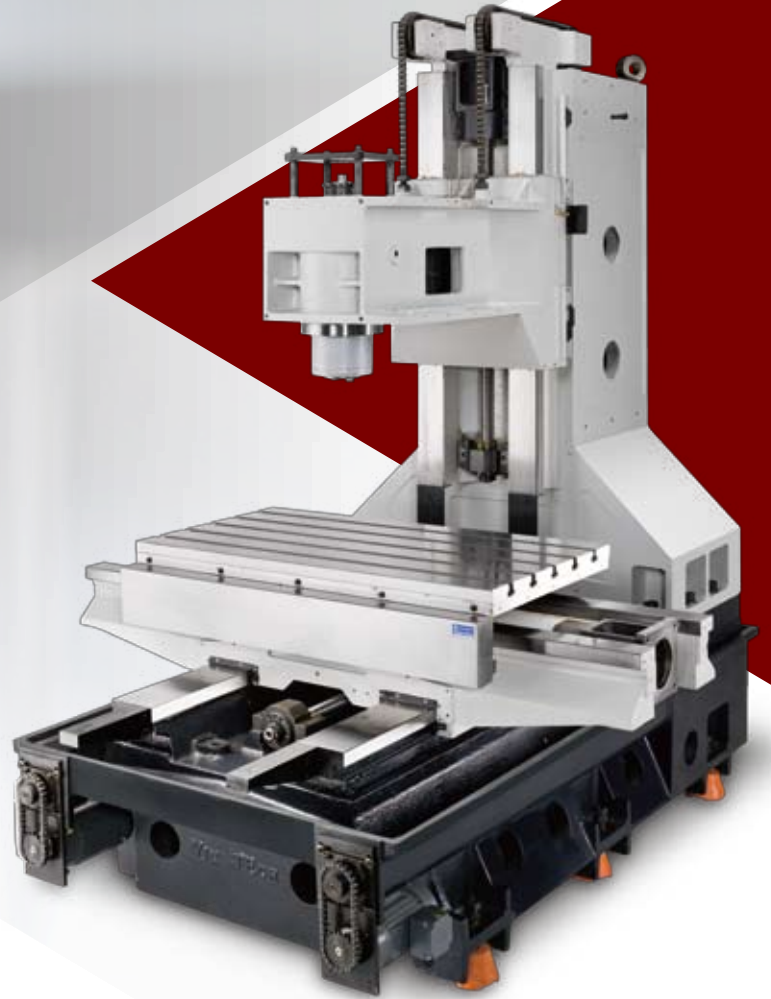
CENTRAL-LUBRICATING SYSTEM on individual slideways, the volumetric oil can be fed timely and automatically for trouble free when long time slides moving.

HIGH HORSE POWER SPINDLE MOTOR is selected for versatile applications. The ZF type gear box can be alternative choice for high torque output.



D/E SERIES

- D Series - X/Y/Z boxways
- E Series - Z boxways & X/Y linear

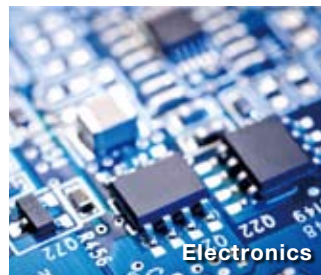


Main Specification

MODEL : D/E 850/1000

- X-Y-Z Travel : 1000/560/560mm
- 3-axes Rapid Feed: 24 ~ 36 M/min.
- Spindle Speed: 8000rpm /Belt type (STD)
- Spindle Output : 7.5/11 kw (STD)

Connect with HIGH-VALUE MANUFACTURING MARKETS



VMC-L1100/1300

Y axis 4 - Box Ways

HIGH RIGIDITY STRUCTURE DESIGN

THE MAJOR CONSTRUCTION PARTS are based on super strong cast iron. They are stable and precision-proved in structure.

WIDE BASE & BOX-SHAPED COLUMN, enhanced saddle and full supported workpiece structure, all contribute to the ability for heavy duty machining.

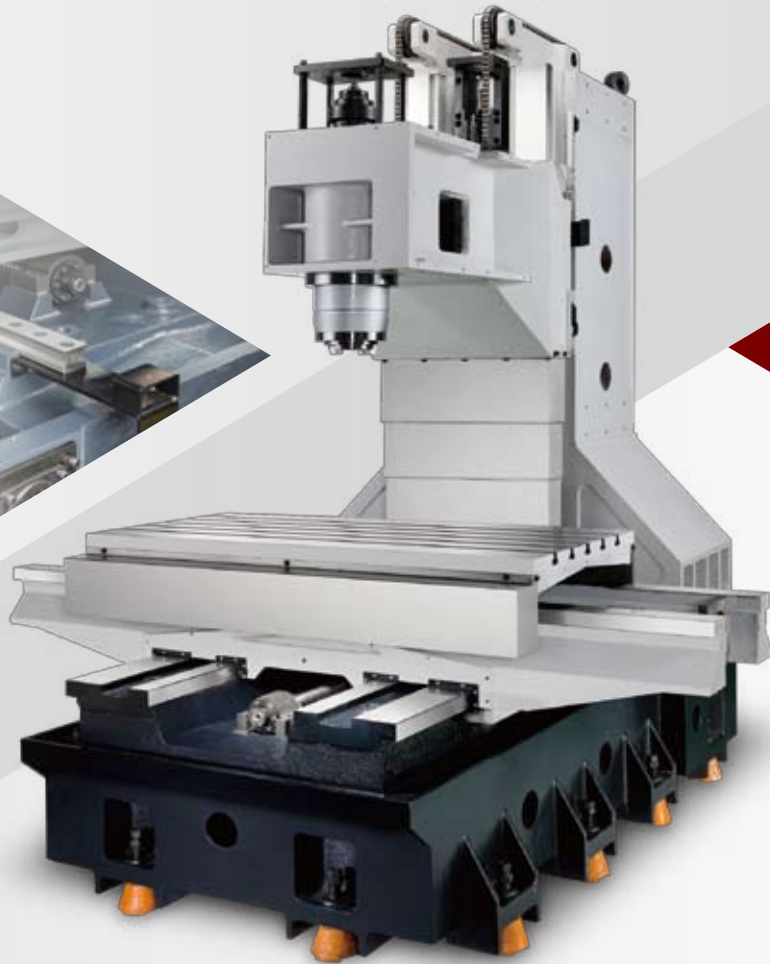
SUPER STRONG DESIGN on column provides the best heavy cutting rigidity. The lead-guide for counterweight ensures no vibration effect when Z axis moving and cutting.

4-GUIDEWAYS DESIGN ON Y-AXIS, ensure the machine free from loads deformation. Both reliability and repeatability accuracy are guaranteed.



L SERIES

- X/Y/Z box ways
- Y axis - 4 guideways



Main Specification

MODEL : L1300

- Travel : 1300/700/650mm
- 3-axes Rapid Feed: 24/24/20 M/min.
- Spindle Speed: 8000rpm /Belt type (STD)
- Spindle Output : 11/15 kw (STD)



CARTRIDGE TYPE SPINDLE

The spindle use pre-loaded angular contact bearings throughout, to enhance radial stability, enabling heavy cuts in steel. The belt type spindle allows heavier cutting and create a better part finish.



DIRECT-DRIVE SPINDLE

The most advanced spindle design is an innovative 10,000~12,000rpm, in-line direct-drive spindle that is coupled directly to the motor. This provides super-smooth operation for excellent surface finishes, and reduces operating heat for greater thermal stability.



GEAR-DRIVE SPINDLE

The geared-head spindle performs increased high torque for heavy duty cutting. All the gear parts are contained in oil box with well-sealed system, to guarantee all parts being lubricated well and make the noise down to low-level.

VMC-L1601/1801

Y axis 4-guideways

TOUGH · ACCURATE · VERSATILE

4-SLIDEWAYS DESIGN with one piece casting, ensure the rapid travel smoothly and overcome the heavy load deformation, will increase the cutting precision.

SUPER STRONG CAST IRON for the major construction part, which has been dispatched by heat treatment & quench tempering, result to super rigidity while heavy cutting.

WIDE BASE, BOX-SHAPED COLUMN enhanced saddle and full supported structure, all contribute to the ability for heavy duty machining.

LARGE SPAN BETWEEN BOX-SLIDEWAYS provide fully support for heavy workpieces.



L SERIES

- X/Y/Z box ways
- Y axis - 4 guideways



Main Specifications

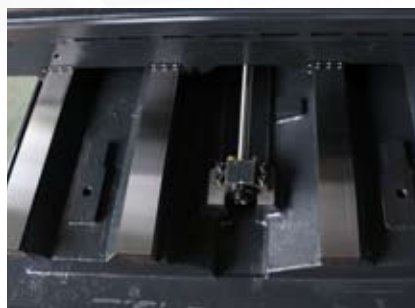
MODEL : L1601

- X/Y/Z Travel : 1600/900/800mm
- 3-axes rapid feed: 18/18/18 M/min.
- Spindle Speed: 5000 ~ 6000rpm /Belt type (STD)
- Spindle Output : 15/18.5 kw (STD)



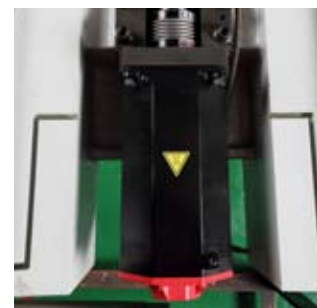
DOUBLE-NUTTED BALLSCREW

Double-anchored ballscrew with ever extra broadened bearing nut than any others, enhance high cutting rigidity and reliability.



4-BOXWAYS SERIES

Four box ways on Y-axis with large span guarantees the reliability when table moving and particularly designed for heavy cutting purpose.



3-AXES SERVO MOTOR

Superior servo motor coupled directly to the ballscrew with rigid shaft couplings, which leads to powerful torque torque and less vibrations.

Options



COOLANT THROUGH SPINDLE(CTS)

The optional Coolant Through Spindle (CTS) help to increase the higher cutting speed, chips removable for deep-hole drill and fine finishing of pocketing mill.



WORKPIECE MEASUREMENT

The advance part probing system acts parts inspection and primary-piece measurement, the data quickly advanced the necessary adjustment and coordinate compensation for high quality processing.



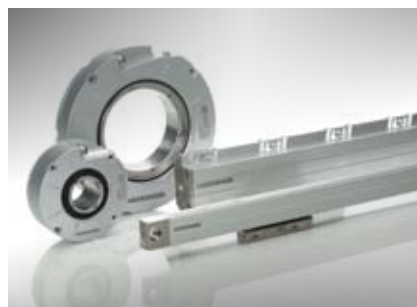
TOOL LENGTH MEASUREMENT

Simplified tool measurement either for tool length or tool outer diameter can be activated with initial M codes for breakage detective and also auto compensation.



4TH/ 5TH AXIS ROTARY TABLE

4th / 5th axis rotary table available for multi-sides machining. The reduced set-up time brings higher productivity and absolute parts accuracy.



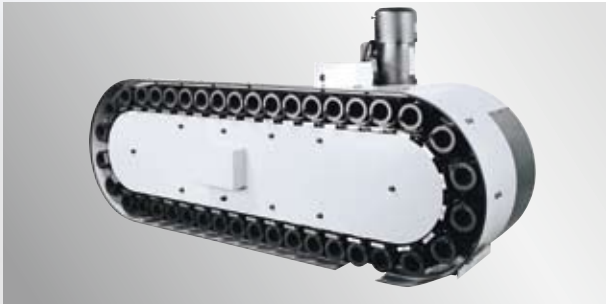
LINEAR SCALES

Linear scales are required when absolute positioning accuracy is necessary, in order to ensure exact axis positioning under fluctuation temperatures. Linear scales can achieve high positioning accuracy.



COOLANTS JETS AROUND SPINDLE

While high speed machining, the equipment can help to eliminate the chips stuck inside of workpiece, hence the accuracy and tool life can be kept longer.



CHAIN TYPE "ATC-30T"

The loading capacity is 30 tools. BT - 50 tool shank can be options.



CHAIN TYPE CHIP CONVEYOR

Chain type chip conveyor provides the most efficient chip removal jobs and best chip-free coolant effect to massive productions.



COOLANT FLUSHING DEVICE

The optional side-flushing device can help efficient removal of chips.



SPINDLE OIL COOLER

Spindle oil cooler can be good helps to keep normal temperature when spindle high speed & long time running.

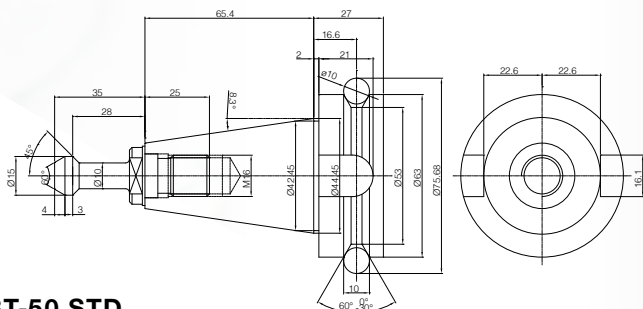


ELECTRICAL CABINET

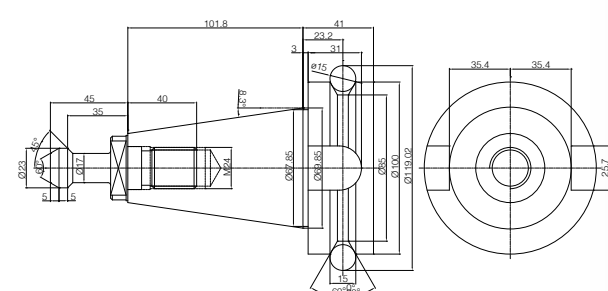
High quality of wiring panels complied with CE standard.

Spindle Tool Diagram

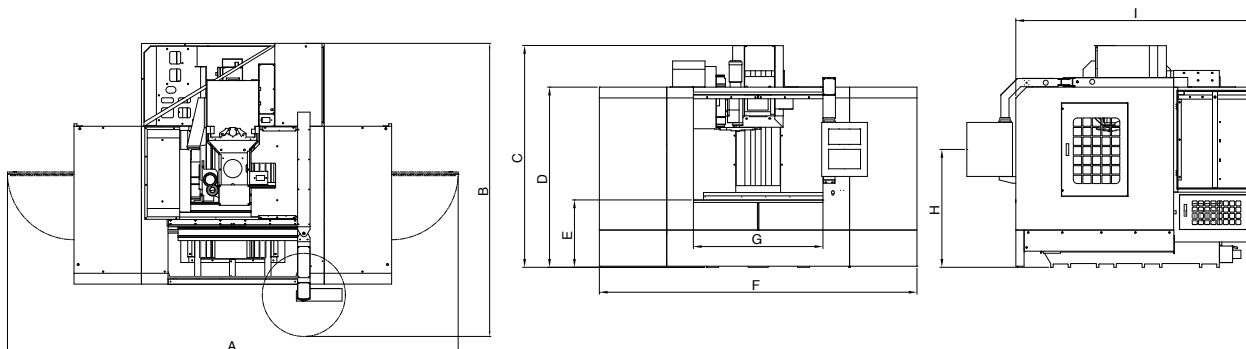
BT-40 STD



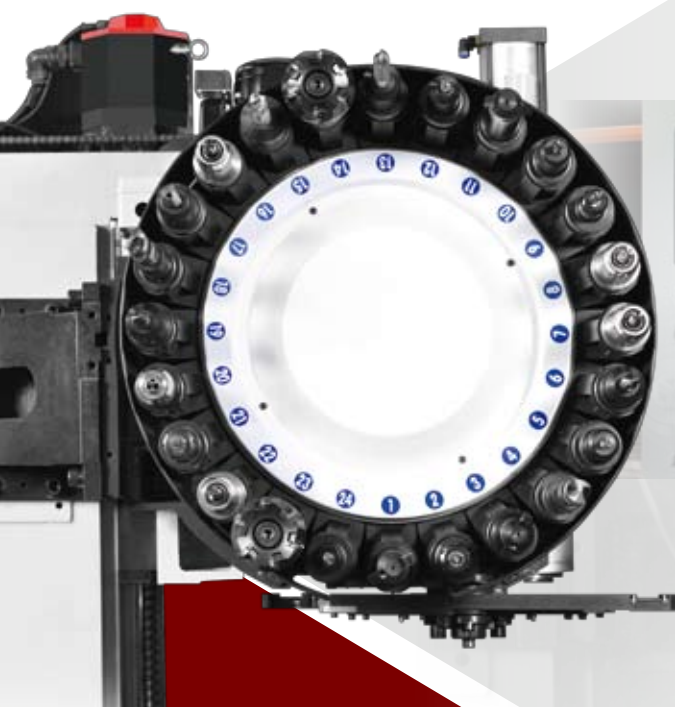
BT-50 STD



Model Dimensions



Model	A	B	C	D	E	F	G	H	I
VMC-D850	4718	3274	2658	2145	866	3060	1366	1500	2671
VMC-D1000	4718	3274	2658	2145	866	3060	1366	1500	2671
VMC-L1100	5383	3568	2972	2269	908	3824	1559	1505	2898
VMC-L1300	5383	3568	2972	2269	908	3824	1559	1505	2898
VMC-L1601	6248	4036	3216	2516	955	4557	2023	1926	3141
VMC-L1801	6665	4228	3270	2516	955	4970	2388	1936	3149



Controllers

FANUC / MITSUBISHI controllers are user-friendly human-computer interface for easy operation; the control panel meets the safety requirement and rotates easily for operation.

ATC 24/30

Arm Type Auto Tool Change Magazine –
24 tools for standard equipment.
(Chain type ATC - 30T is option.)

Specification

	Unit	D850	D1000	L1100	L1300	L1601	L1801
Work Table							
Working table size	mm	1000x560	1150x560	1200x610	1500x710	1860x1000	1970x1000
T - slots	mm	18x5x100	18x5x100	18x5x100	18x5x140	18x7x120	18x7x120
Max. table load	kgs	500	650	800	1200	2000	2200
Travel							
X axis travel	mm	850	1000	1100	1300	1600	1800
Y axis travel	mm	560	560	650	700	900	900
Z axis travel	mm	560	560	610	610	800	800
Spindle nose to table surface	mm	150-710	150-710	150-760	150-760	210-1010	210-1010
Spindle							
Transmission		Belt-drive					
Spindle taper		BT - 40	BT - 40	BT - 40	BT - 40	BT - 50	BT - 50
Spindle speed	rpm	8000	8000	8000	8000	6000	6000
Spindle motor	kw	7.5 / 11	7.5 / 11	11 / 15	11 / 15	15 / 18.5	15 / 18.5
Feed							
X - Y - Z motor (Fanuc)	kw	3/3/3	3/3/3	3/3/3	3/4/4	7/7/7	7/7/7
X - Y - Z motor (Mitsubishi)	kw	3/3/3	3/3/3	3.5/3.5/3.5	3.5/3.5/3.5	7/7/7	7/7/7
X - Y - Z rapid travel	M/min	24/24/18	24/24/18	24/24/18	24/24/18	18/18/18	16/16/16
X - Y - Z cutting feed rate	M/min	10	10	10	10	8	8
ATC System							
ATC type						Arm type	
Magazine capacity	pcs	24	24	24	24	24	24
Max. tool diameter	ø (mm)	100	100	100	100	125	125
Max. tool length	mm	300	300	300	300	300	300
Max. tool weight	kgs	8	8	10	10	15	15
Rail Type							
3-axes rails		3 - axes boxways			X - Y - Z boxways / Y-axis 4 guideways		
Dimension & Others							
Power consumption	KVA	15	15	20	20	30	30
Air pressure required	kg/cm ²	6	6	6	6	8	10
Floor occupation	cm	310x330x270	310x330x270	385x360x300	385x360x300	460x405x325	500x425x330
Machine weights	kgs	6800	7000	8200	8500	16000	18000

Standard Accessories

- ① 3-axes auto lubrication system
- ② Rigid tapping
- ③ Cooling device
- ④ Full enclosed guard
- ⑤ Spindle air blast
- ⑥ RS232 transmission interface
- ⑦ Heart exchanger
- ⑧ Work lamp
- ⑨ Alarm Indicator
- ⑩ Tool kits with foot pad screws
- ⑪ Telescopic cover on 3 - axes
- ⑫ Maintenance / Operation manual

Optional Accessories

- ① FANUC / MITSUBISHI controller
- ② Chip conveyor
- ③ 4th & 5th axis rotary table
- ④ Spindle speed upgrade
10000rpm / 12000rpm(Direct-drive)
- ⑤ 3-axes linear scales
- ⑥ Spindle cooling system
- ⑦ Auto tool length measurement
- ⑧ Work-piece measurement
- ⑨ Disc oil / coolant separator
- ⑩ Coolant through spindle (CTS)
- ⑪ Spindle splash surround
(for arm type only)
- ⑫ Electric cabinet air conditioner
- ⑬ Automatic voltage stabilizer
- ⑭ Transformer