

Manufacturer



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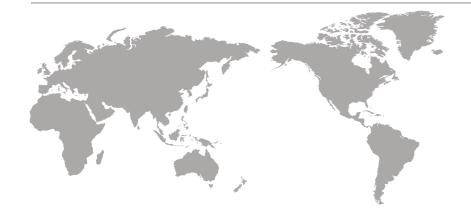
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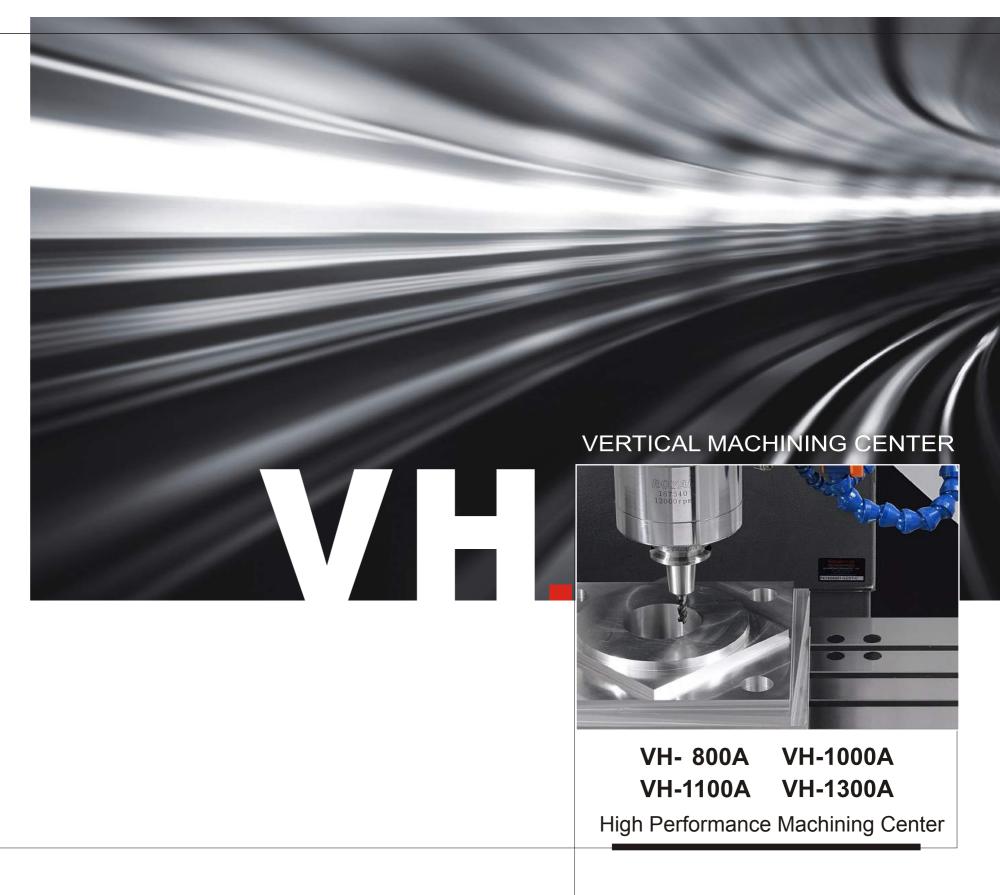


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Welcome to Litz website for more information

Dealer









VERTICAL MACHINING CENTERS (7) LITZ HITECH CORP.

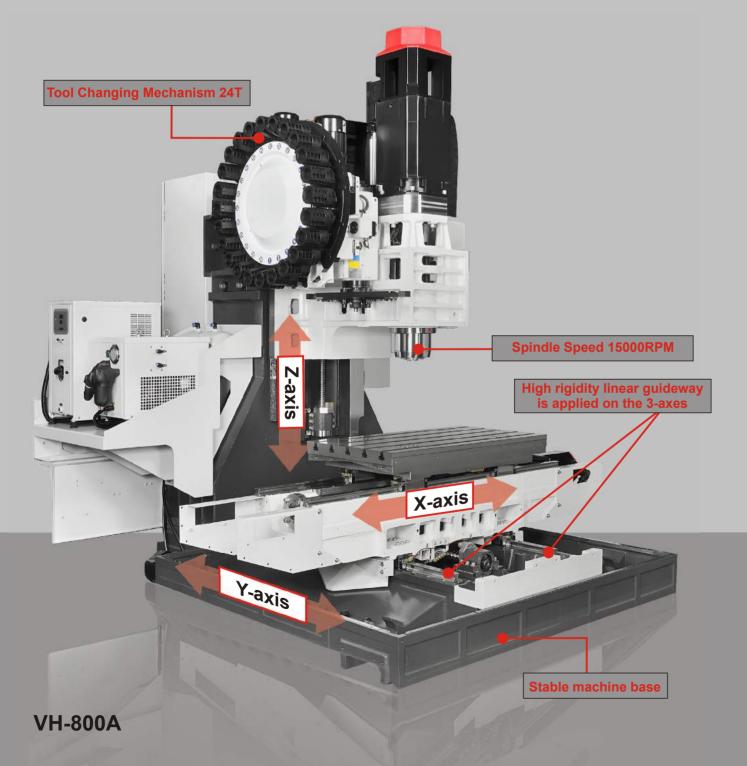
VERTICAL MACHINING CENTERS (4) LITZ

2 LITZ HITECH CORP.

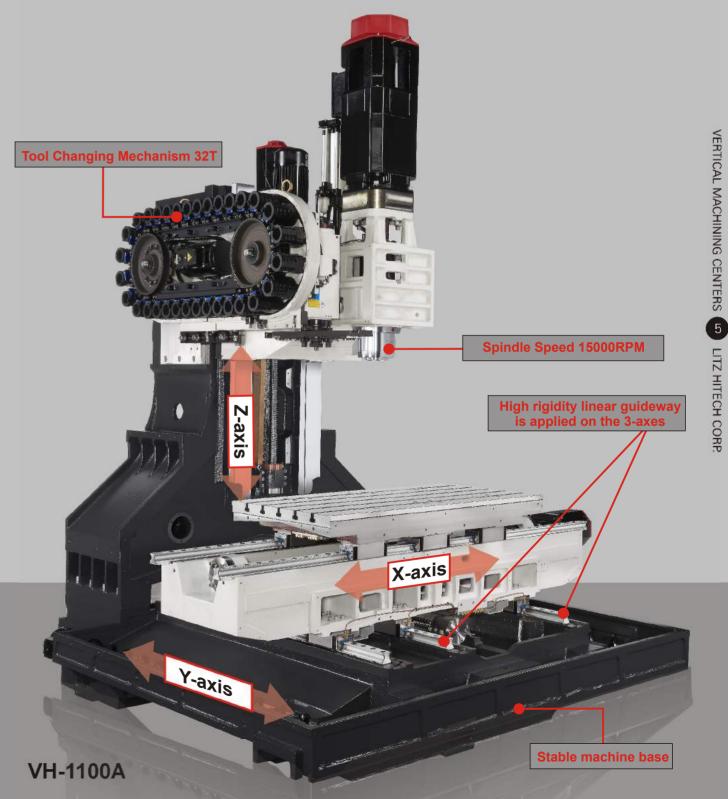
LITZ HITECH CORP.

High rigidity, high-precision structure design

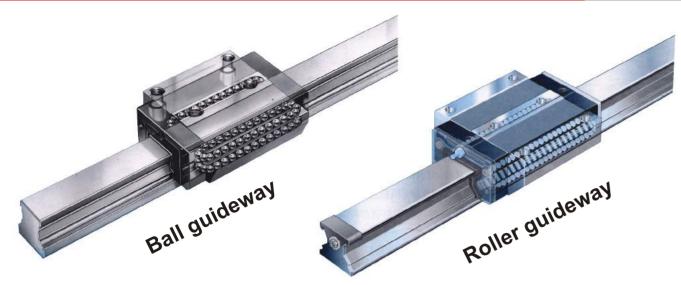
- The major construction parts are based on Meehanite cast iron, which is stable in structure and long-term quality is assured.
- Casting parts are calculated and analyzed by the finite element method. Proper structure strength combined with enhanced ribs provides high rigidity for the machine.
- A linear guideway is applied on the 3-axes, supporting heavy loads, rapid moving, and assuring precise positioning.



- A wide base, box-shaped column, enhanced saddle, full span supports for heavy loads, and robust structure all contribute to its ability for heavy duty machining.
- Enhanced ribs inside the spindle head and a proper contact length ratio between the spindle head and column provide solid support for the spindle.



VERTICAL MACHINING CENTERS



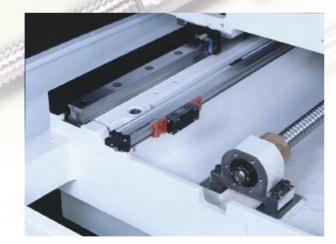
- A linear guideway with zero backlash ensures a consistent cutting surface on curved or tilted surfaces.
- Suitable for high speed operation and the horsepower requirement is minimized.
- By using rolling contact instead of sliding contact, the linear guide reduces the friction loss and increases the sensitivity and positioning precision.
- Capable of taking loads from all directions simultaneously. Multiple point contacts of the rail contact surface under loads, the cutting rigidity will not be compromised.
- Easy to assemble with interoperability. The lubrication mechanism is simple.
- Tiny wear and tear of linear guideways, long service time.

Collision Protection Device

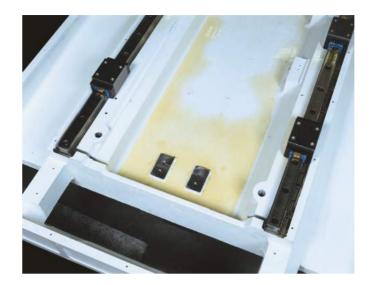


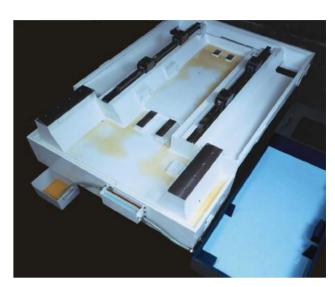
■ The machine is equipped with a collision protection device which can absorb collisions due to machine malfunctions or mistakes made by operators. The damage caused by the collision can be minimized and still maintain the design precision.

High Precision Linear Scale OP



- The X/Y/Z-axis can be equipped with a linear scale system to detect thermal displacement due to rapid movement of the machine. The thermal displacement result will be sent to the controller for compensation, suitable for high precision parts machining.
- The linear scale system is designed with a gas protection device to prevent the linear scale from contamination by dust and oil vapor. The precision of the linear scale is assured and the service time can be extended.





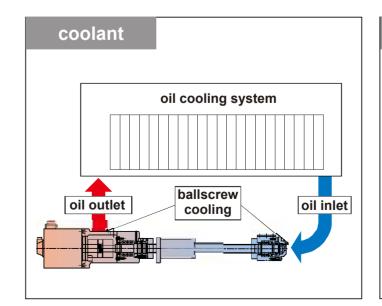
■ The oil/coolant separating design can separate lubricating oil and coolant effectively.

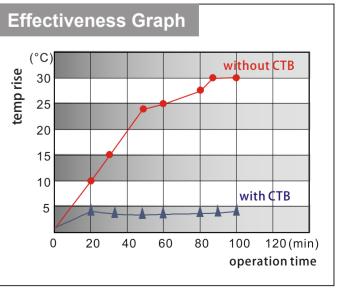
Coolant quality will not be reduced due to mixing and the machining quality can be assured.

3-axis coolant through

OP

The ballscrew transmission system employs hollow cooling design to minimize heat and thermal expansion of ball screw in high-speed operations with coolant oil to balance high speed and high precision at the same time.



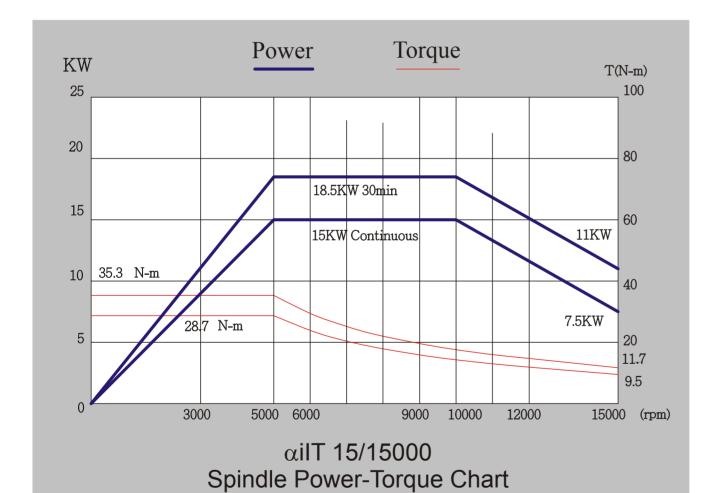


Spindle features

15,000 RPM with BBT40 spindle taper, provides high performance and better service life.

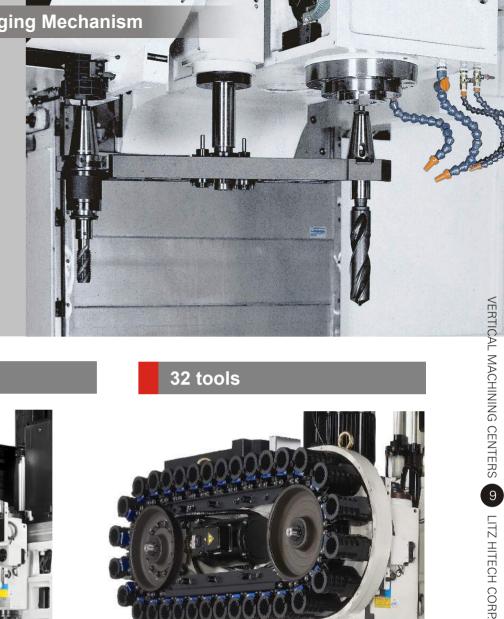


Torque Chart



Arm-type Tool Changing Mechanism

- A fast, simple, reliable, and durable tool exchange device, providing stable and reliable exchange of tools.
- A unique tool exchange device design, an advanced cam-drive mechanism capable of random tool selection can be achieved using the PLC software control.



24 tools

32 tools



Mode	Number of Tools	Tool specification	Max. tool length (mm)	Max. tool dia. (mm)
VH-800A	24T	BBT-40	300	80/150
VH-1000A	30T	BBT-40	300	80/150
VH-1100A	32T	BBT-40	300	76/125
VH-1300A	32T	BBT-40	305	76/125



1 Lighting System

High brightness work light is standard for easy loading and unloading work from the table.

Portable MPG



Portable hand wheel beneficial to operation flexibility.

Full enclosed ATC

Full enclosed ATC design to prevent duct or oil mist go inside the ATC area.

Tool Length Measurement 야



The automatic tool measuring system will measure the tool length and input the result into the controller automatically for compensation.

IR tool damage detector OP



The IR tool damage detector is aimed to identify any damages to mini tools before machining and signal the NC controller to hold the next machining process.

Auto power ON for machine warm-up **Auto power Off**

Operator can set power On timing and activate the warm-up program by timer, as well as power Off.

7 3 color signal light



Safety switch (standard)



The machining program starts only when the safety door is closed to ensure operator safety.

DDR Motor OP



The embedded rotating 4th axis has the features of high rotating speed, high precision, high maximum torque, high braking torque and zero backlash, suitable for precision parts machining with high performance.

Coolant

Programmable nozzle adjustment device OP



Programmable nozzle adjusting device: you may add M code in machining scripts to change nozzle angle according to tool length during machining.

Coolant through spindle device and filter OP





With the addition of the coolant through spindle system, the cutting coolant passes through the center of the spindle and is ejected at the tip of cutter to directly cool the workpiece and the cutting blade of the cutter by removing the heat generated from cutting in order to ensure excellent cutting quality, and it is suitable for component parts of deep hole processing.

12 High Precision Linear Scale op

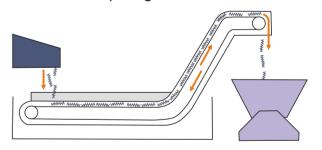


The X/Y/Z-axis can be equipped with a linear scale system to detect thermal displacement due to rapid movement of the machine. The thermal displacement result will be sent to the controller for compensation, suitable for high precision parts machining.

Chip Management

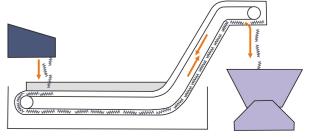
13 chain tynechip conveyor 🐽

Suitable for chip length from 30-150mm



14 scraper tynechip conveyor 🐽

scraper tynechip conveyorcan remove the long and curl chips through outer channel; andremovethecoolant and small chips through inner channel.



LITZ HITECH CORF

CENTERS

Front and top door in one piece.

Wide opened front for easier loading/unloading.

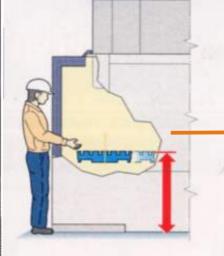




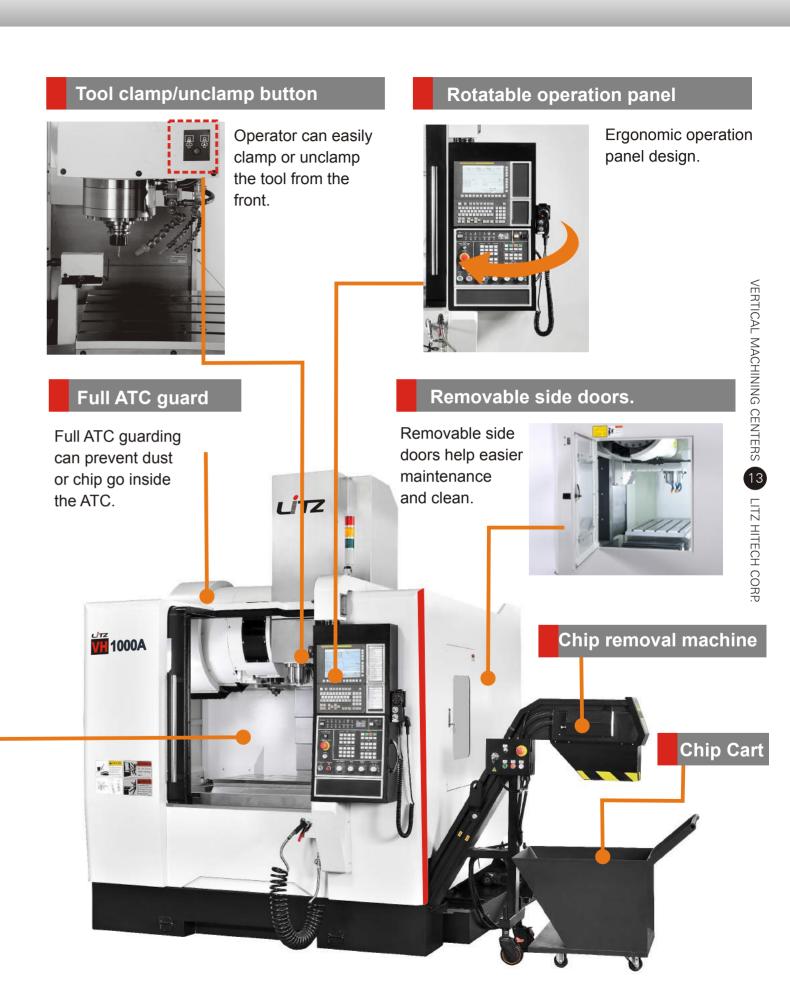
Operator close to table and spindle.

Operator can easily approach workpiece.



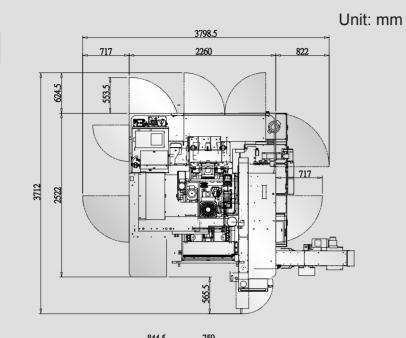


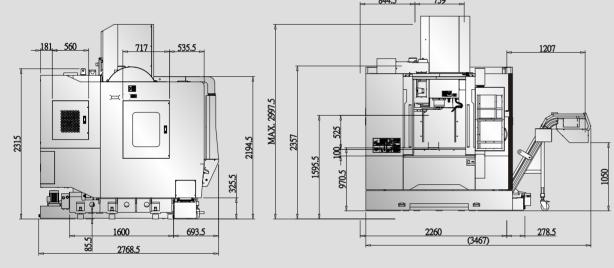
Based on ergonomics, easy operation and maintenance ishighlighted indesign.



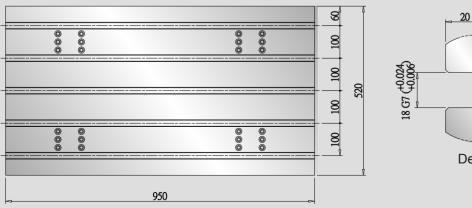
Machine Layout

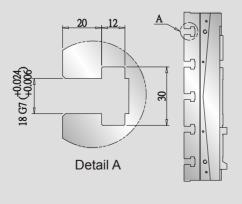
Outline Dimensions VH-800A

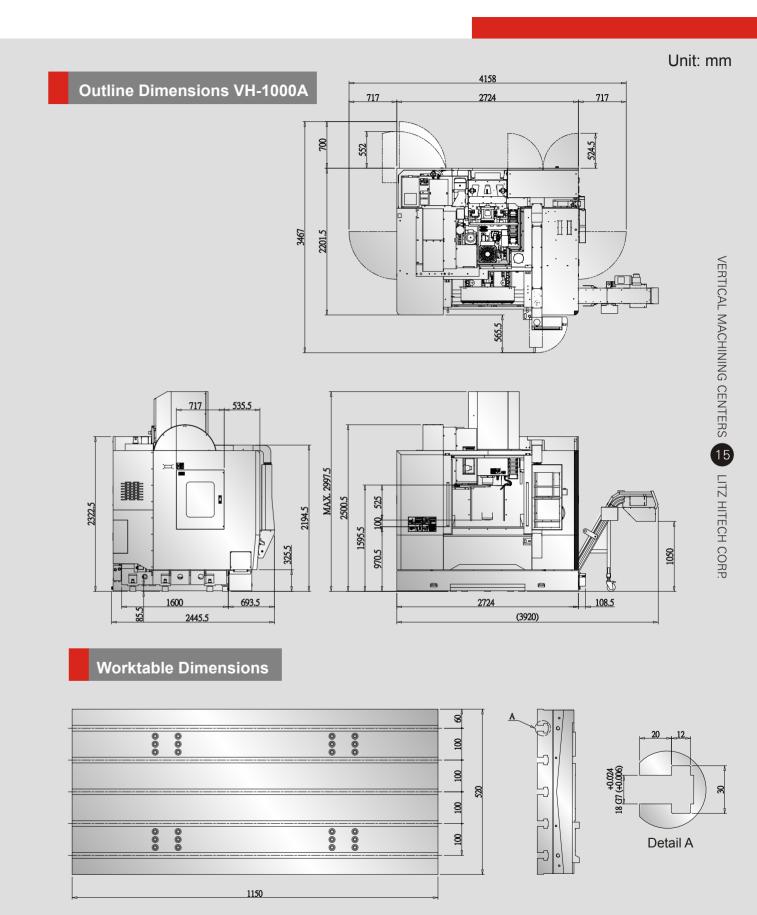




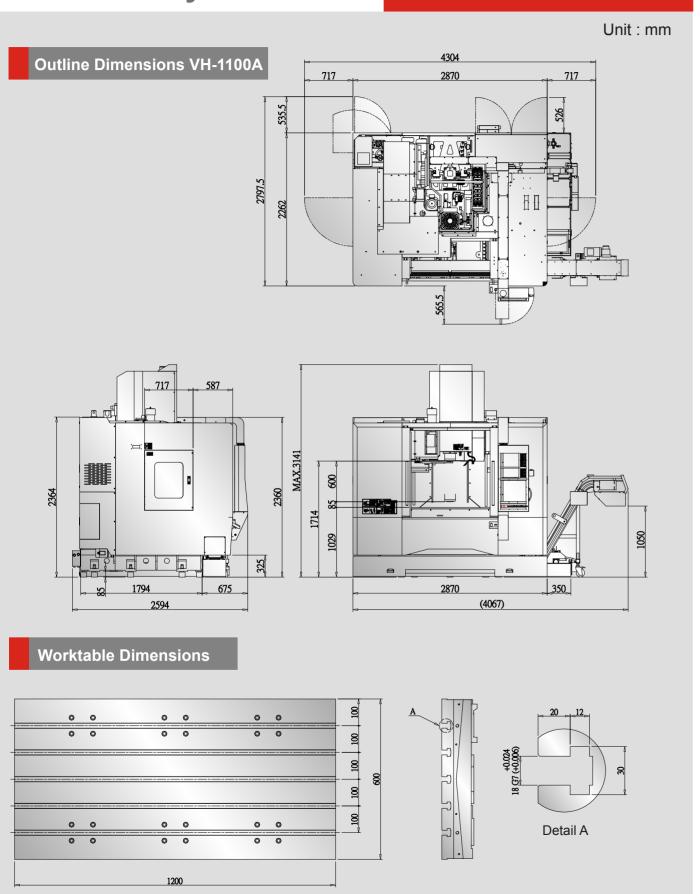
Worktable Dimensions

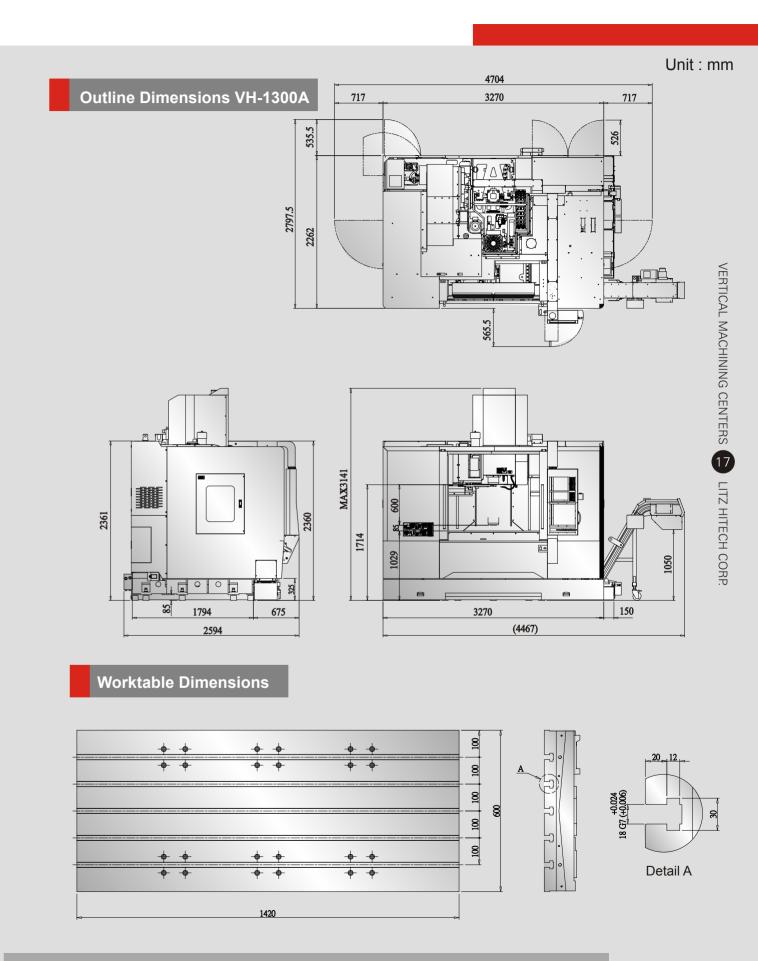




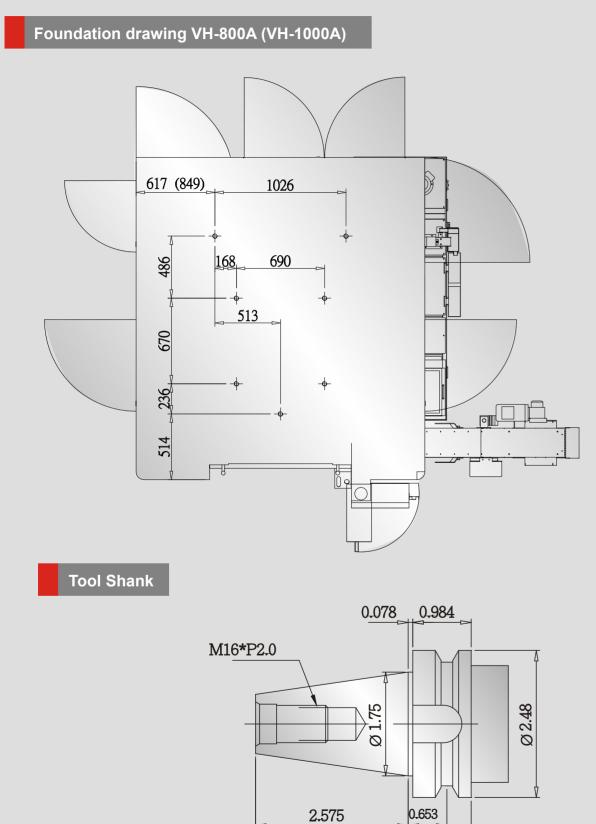


Machine Layout

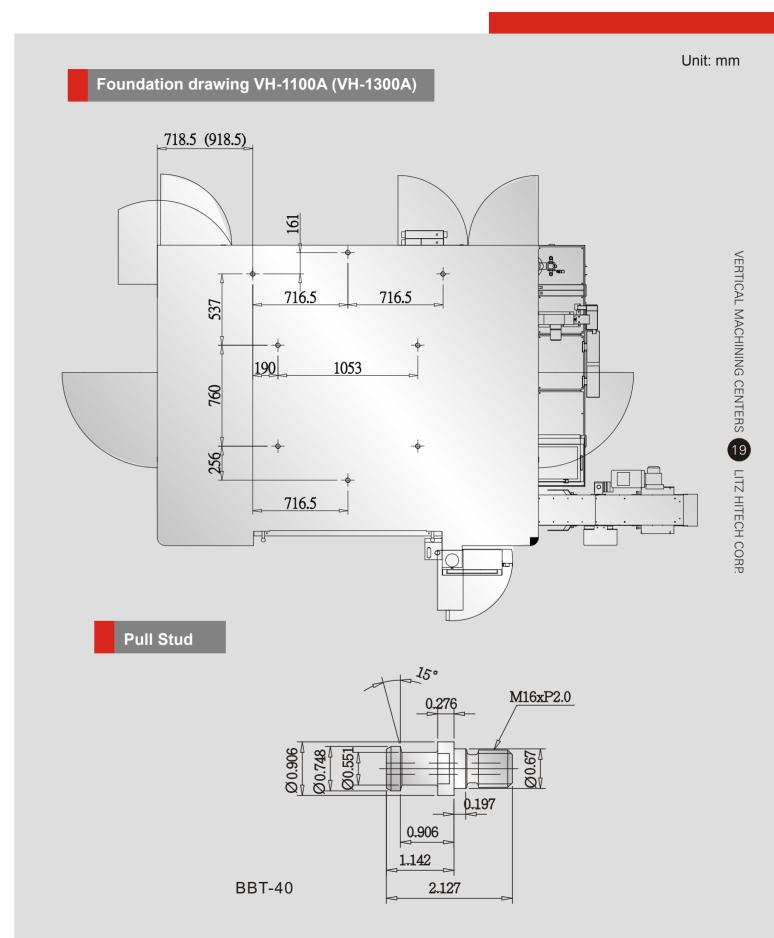




BBT-40



3.638



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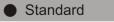
Machine Specifications

			VH-800A	VH-1000A	VH-1100A	VH-1300A
Travels for 3-axes	X-axis Travel	mm	800	1000	1100	1300
	Y-axis Travel	mm	520	520	610	610
	Z-axis Travel	mm	525	525	600	600
	Spindle nose to worktable surfa	ice mm	100~625	100~625	85~685	85~685
	Spindle center to Z rail surface	mm	570	570	655	655
	Table surface to floor	mm	970	970	1030	1030
Spindle	Spindle Speed	RPM	15000	15000	15000	15000
Automatic Tool Changing System	Number of Tools	Т	24	30	32	32
	Max. tool length	mm	300	300	300	300
	Max. tool weight	kg	7	7	7	7
	Tool changing method		ARM	ARM	ARM	ARM
	Tool specification		BBT-40	BBT-40	BBT-40	BBT-40
Worktable	Worktable area	mm	950x520	1150x520	1200x600	1420x600
	Worktable max. load capacity	kg	500	500	1000	1000
	Working area	mm	800x520	1000x520	1100x610	1300x610
	T-slot Width	mm	18	18	18	18
	T-slot No.	mm	5	5	5	5
	T-slot Distance from the cente	r mm	100	100	100	100
Rapid Speed	X-axis rapid speed	M/min	60	60	48	48
	Y-axis rapid speed	M/min	60	60	48	48
	Z-axis rapid speed	M/min	30	30	24	24
Controller	FANUC 0i-MF					
	Machine Weight	Kg	6850	7150	7450	9000
Miscellaneous	Coolant Tank Capacity	L	355	370	440	460
	Power Consumption	KVA	25	25	25	25
	Compressed air source	kg/cm²	6	6	6	6

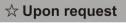
- All the photos contained herein are for reference only. In case of any discrepancy with the actual machine parts, the actual machine shall prevail.
 LITZ reserves the right to modify the product specifications, appearance, equipment or discontinue the products.

Equipment List

Spindle	Oil/coolant sep	Oil/coolant separator			
Spindle speed: 15000RPM	Disc type oil/cod	Disc type oil/coolant separator			
Spindle oil cooling system					
Coolant through the spindle system (CTS)	ATC System	ATC System			
Spindle dust-proof air-sealing system	Automatic Tool	Automatic Tool Changer Mechanism (ATC)			
	BBT-40 tool spe	BBT-40 tool specification			
Cooling System	Arm type	24T (VH-800)			
Spindle external programmable air blow system	tool magazine	30T(VH-1000)			
Stop block for oil feed tool holder		32T(VH-1100/1300)			
Programmable coolant nozzle		021(1111110111001)			
Splash ring(arm type only)	3-Axes Transm	3-Axes Transmission System			
Coolant cooling system	3-axes linear so	3-axes linear scale			
	Counter weight	central guide device			
Chip Removal System					
Chip auger inside the machine	Controller	Controller			
Chip conveyor	Mitsubishi M80	Mitsubishi M80			
Chip cart	FANUC 0iMF	•			
Coolant gun for machine cleaning	Siemens 828D	\bigcirc			
Air gun for machine cleaning					
Wash down device	Flectrical Parts	Electrical Parts			
Fully-covered sheet metal	Work light				
	Alarm indicator				
Measurement System		M30 automatic power off system			
Tool length measurement system		Heater exchanger for electrical cabinet			
Workpiece measurement system 🔆		for electrical achinet			
	7 til Collationer i	or electrical cabinet			
Miscellaneous	Miscellaneous				
Oil Mist Collector(AE-20S)					
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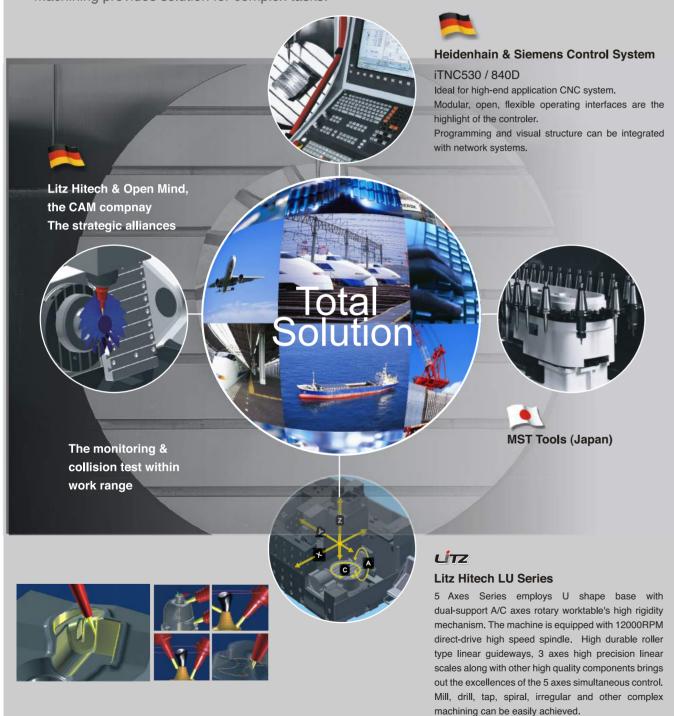


VERTICAL MACHINING CENTERS \(\frac{1}{2}\) LITZ HITECH CORP.

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Total Production Solution

Highly efficient manufacturing fashion, equipped with high performance control system. The high speed contouring capability can achieve best possible surface quality under most demanding machining cycle time. Highly dynamic five axes machining provides solution for complex tasks.



Technical Support Global Presence



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