



Since 1997 we always insist on this sincere service



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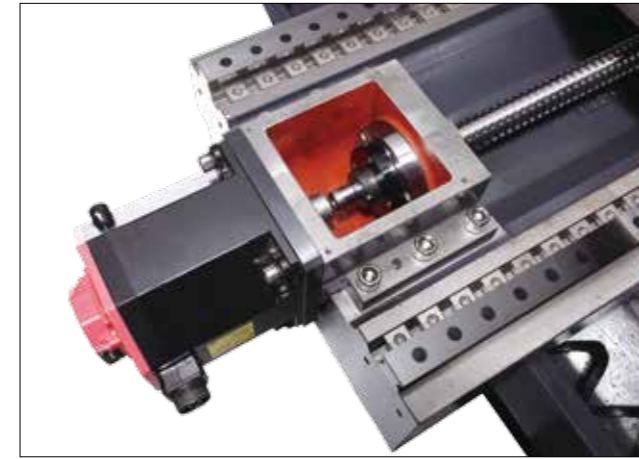
Design & Print 0920-530947

V8 V10 V12 VHS

Vertical Machining Center
High Speed Series Ultra-High Speed Series

Various Spindle Selections

- Belt transmission** BBT40 10000 rpm
Spindle arbor 70mm
- Direct transmission** BBT40 10000/12000/15000 rpm
Spindle arbor 70mm
- HSK A63 15000 rpm
Spindle arbor 70mm
- Built-In Spindle** HSK A63 20000/24000 rpm



C3 Class Ballscrew

Triaxial ballscrews are equipped with diameter $\Phi 40$ and C3 class ballscrews. All ballscrews are dealt with pre-pressing and pre-stretching to ensure lowest backlash and heat deformation.



Strengthening the Support of the Ballscrew Both Ends

The both ends of the ballscrews are installed with 3 sets supporting bearings separately. The machine base is supported by nine points of leveling pads and bolts .

Heavy Loading Roller Linear Guideway

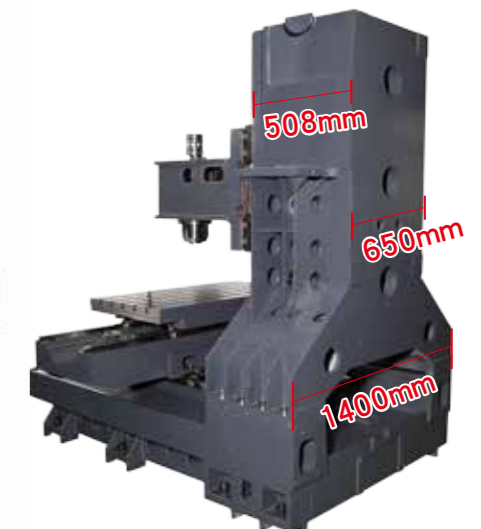
	V8			V10 / VHS10			V12 / VHS12		
	X	Y	Z	X	Y	Z	X	Y	Z
Guideway Width(mm)	35	45	45	35	45	45	45	45	45
Guideway Quantity	2	2	2	2	2	2	2	2	2
Slider Quantity	4	4	4(6)	4	4	4(6)	6	4	4(6)

Using enlarged slider blocks to enhance machine rigidity and loading.



Solid and High Rigidity Structure of Body

Base, saddle, table, spindle head and column are enhanced by the ribs structure to improve machine rigidity and accuracy and to avoid machine deformation. Five major MEEHANITE castings are molded processed, heat-treated and ground in Taiwan.



Dual Screw Chip Conveyors

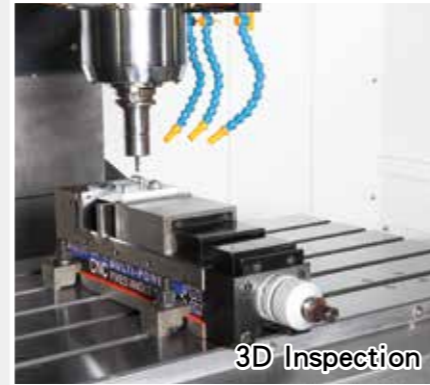
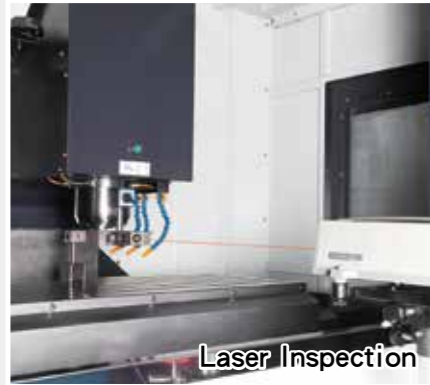
One piece casting for chip flute and bottom base could solve the problem of leaking.



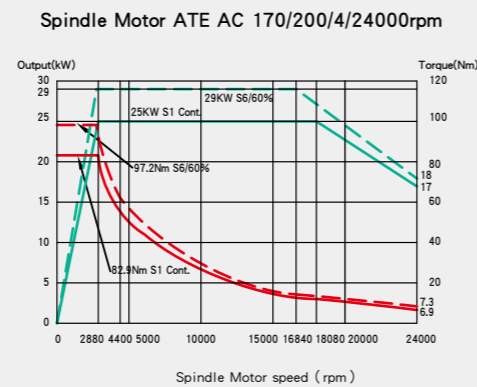
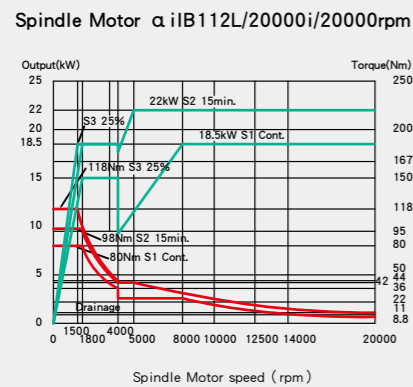
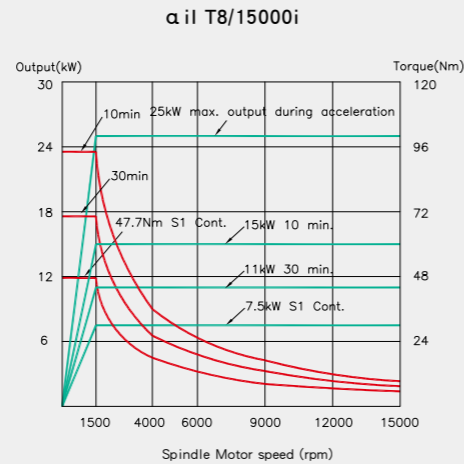
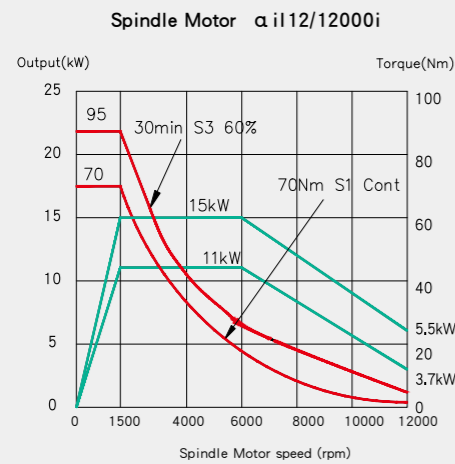
Three axes use environmentally automatic grease lubrication system.

Strict Quality Inspection Regulation

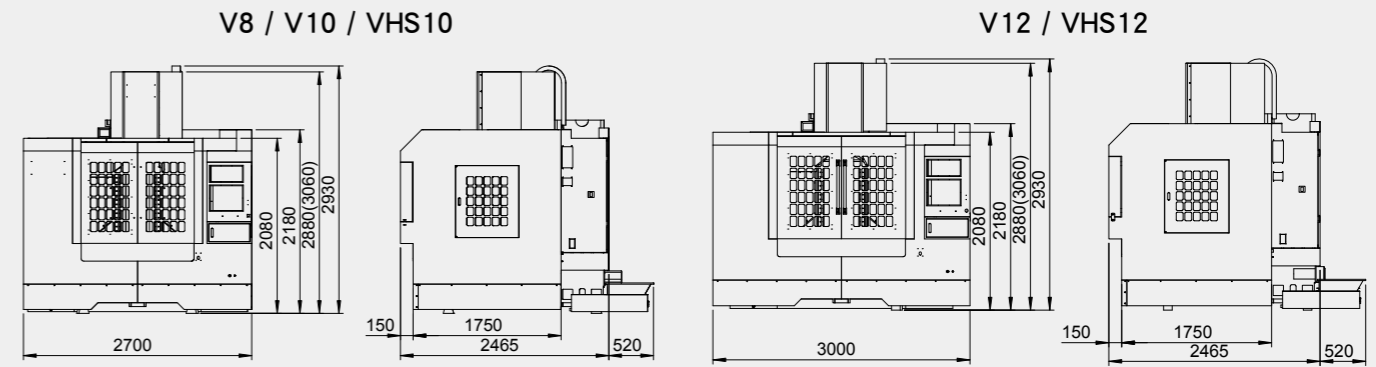
- ① Each machine has 100% full inspection.
- ② Entire machine has Geometric Accuracy Test.
- ③ Ball-Bar inspection: Use circular tester to adjust accuracy of roundness and machine.
- ④ Laser inspection: According to VDI3441 (ISO230-2) standard, machine will do multiple back and forth operation with compensation to meet the suitable machine accuracy. Each machine has individual inspection report.
- ⑤ Spindle dynamic balancing correction. This can ensure the spindle stability during high rotation speed.



Spindle Power and Torque Curve

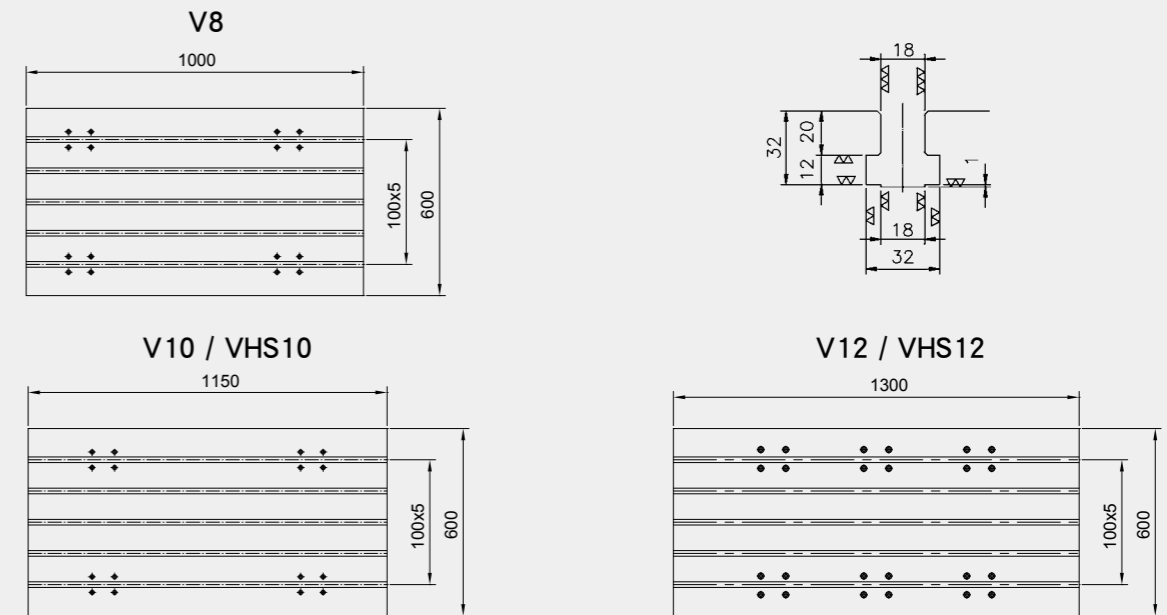


Machine Dimension(mm)

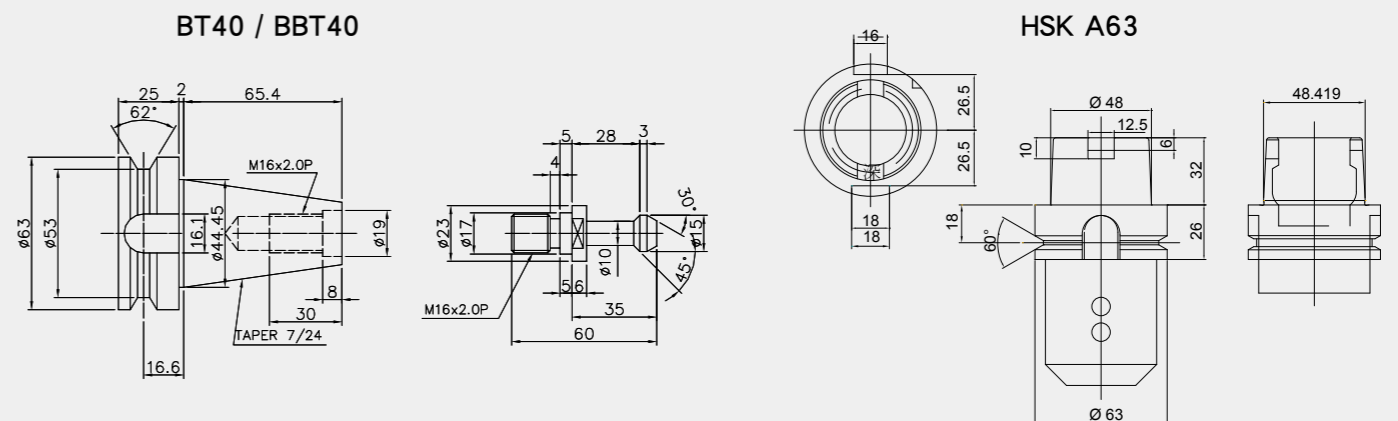


LEADYANG reserves the right to change the appearance design and specifications. And the above specifications are subject to change without notice.

Table Dimension(mm)



Tool Taper Dimension(mm)



Machine Specification

Model	Unit	V8	V10	V12	VHS-10	VHS-12
TRAVLE						
XYZ Axes Travel	mm	850/600/600	1050/600/600	1200/600/600	1050/600/600	1200/600//600
Spindle Nose to Table	mm	100-700	100-700	100-700	100-700	100-700
Spindle Center to Column	mm	680	680	680	680	680
Types of Guideway(X/Y/Z)		Roller Linear/ Roller Linear/ Roller Linear			Roller Linear/ Roller Linear/ Roller Linear	
Width of Linear Guideway (X/Y/Z)	mm	35/45/45	35/45/45	45/45/45	35/45/45	45/45/45
Slider Quantity(X/Y/Z)		4/4/4	4/4/4	6/4/4	4/4/6	6/4/6
TABLE						
Table Size	mm	1000x600	1150x600	1300x600	1150x600	1300x600
T-Slot Size	mm	18x5x100	18x5x100	18x5x100	18x5x100	18x5x100
Max. Table Load	kgs	700	800	1000	800	1000
SPINDLE						
Spindle Transmission		Belt type	Direct type		Built-in	Built-in
Spindle Taper		BBT-40	BBT-40	HSK A63	HSK A63	HSK A63
Spindle Speed	rpm	10000	10000/12000	15000	15000/18000	20000/24000
Spindle Motor(cont./30mins)	kw	11/15	11/15	7.5/11(15/18.5)	7.5/11(15/18.5)	18.5/22
CUTTING FEED RATE						
X/Y/Z Rapid Travel Rate	m/min	40/40/30	40/40/30	40/40/30	40/40/30	40/40/30
X/Y/Z Cutting Feed Rate		12/12/12m/min	12/12/12m/min	12/12/12m/min	15/15/15m/min	15/15/15m/min
A.T.C (Optional)						
Tool Change Method		Cam driven arm type	Cam driven arm type	Cam driven arm type	Cam driven arm type	Cam driven arm type
Magazine Capacity	set	24/30/36	24/30/36	24/30/36	24/30/36	24/30/36
Tool Change Time(Tool to Tool)	sec	2	2	2	2	2
Max. Tool Diameter	mm	75/150	75/150	75/150	75/150	75/150
Max. Tool Length	mm	250	250	250	250	250
Max. Tool Weight	kgs	7	7	7	7	7
ACCURACY STANDARD VDI 3441 ISO 230-2						
Positioning Accuracy	mm	0.007	0.007	0.007	0.007	0.007
Repetitive Positioning Accuracy	mm	0.006	0.006	0.006	0.006	0.006
Ball-bar Accuracy	mm	0.01/300	0.01/300	0.01/300	0.01/300	0.01/300
ACCESSORY EQUIPMENT						
Spindle Coolant Ability	Kcal	1000	1000/1500	3000	3000	4500
Cutting Coolant Pump	W	1275x2	1275x2	1275x2	1275x2	1275x2
Grease System Pump	W	60	60	60	60	60
OTHER						
Air Pressure Requirement	kgs/m ²	6	6	6	6	6
Electric Power Requirement	Kva	35	35	35	45	45
Machine Weight(Approx.)	kgs	7000	7300	7600	7500	7800

NOTE:

1. Standard controller: Fanuc OIMF. Depend on customer's demand can choose Siemens series or Mitsubishi series.
2. LEADYANG reserves the right to change the design and planning. And the above specifications are subject to change without notice.
3. Above accuracy value is in accordance with the new machine and standard inspection status of the test data.
4. Depends on customer's request, the columns can be heightened by having one 160-200mm riser block as option.

Accessories

- 10.4 Inch LCD screen
- Fully enclosed splash guard
- Dual screw chip conveyor for Y axis
- Three axes telescopic covers
- Heat exchanger for electric cabinet
- Spindle oil coolant system
- Spindle air blast system (Automatic controlled by M07 program)
- Cutting coolant system
- Chips flushing system on both sides
- Spindle water ring with 4 water blast
- 3-axs auto lubrication system
- Removable MPG
- Oil purifier (proportion type)
- Leveling pads and bolts
- Tri-color indicating light
- Air/water gun for chip remove
- Work lights on both sides
- Auto power off (M30)
- RS232C interface
- Fine molding machining function
- Tool box and adjustment tools
- Accuracy inspection report
- Machine operating and maintenance manual
- E-book of FANUC program operating and maintenance manual
- Six slider blocks for X axis (V8/V10 series)
- Six slider blocks for Z axis (V8/V10/V12 series)
- Z Axis motor change form @20 to @30
- Independent water pump for water gun
- Oil coolant device of deep drilling
- Chain or scrape plate type chip conveyor
- Air conditioner for electric cabinet
- CNC rotary table
- Auto tool length measurement
- Auto workpiece measurement
- Data serve & 2G memory
- Three axes linear scales
- Oil mist blast system
- Oil mist collector
- Disc type oil skimmer
- 20/30/70 Bars C.T.S and external filtration tank
- Transformer (380V)
- Japan NSK ballscrews of three axes
- 24/30/36 Tools magazine capacity

Standard Accessories

Optional Accessories