High Precision / **High** Efficiency
High Durability / Perfection

● VL-300~600C/CM

● VL-160~600C/CM-2R

● PL-160~500CM

● VL-66~250C/CM

● VL-46~100A/M/H

● HL-26/32AT

● VG-160CMG

● VL-66KA2

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Agent :

201701 2000

HONOR

YES ! WE ARE HONOR !

High Speed Series CNC Vertical Lathe

VL-66AM/VL-86AM

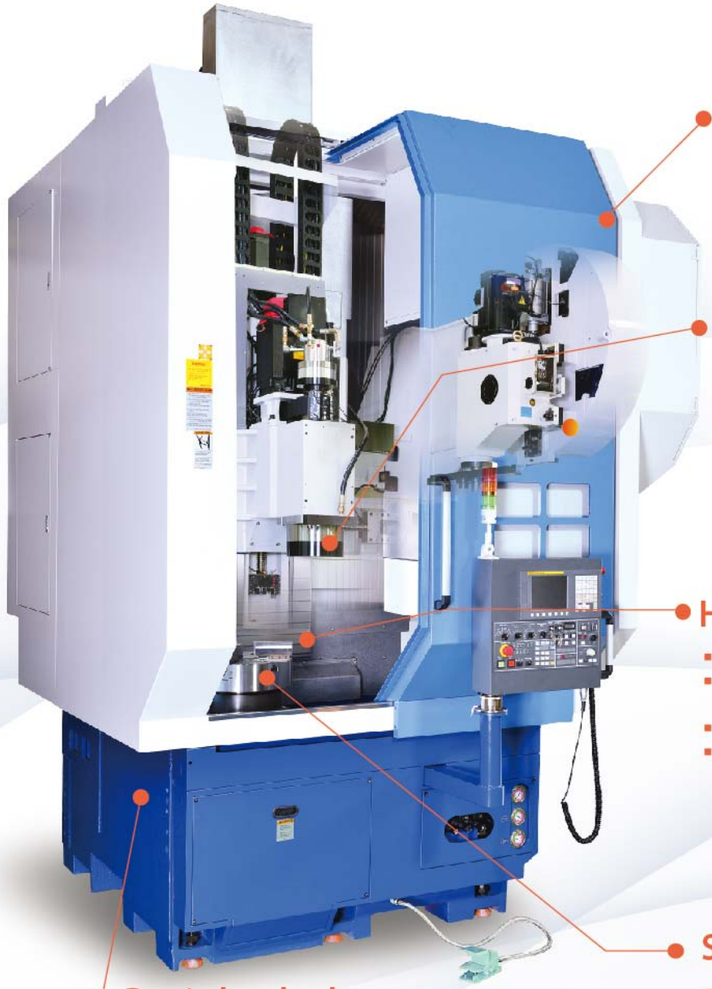
CNC Vertical Lathe / CNC Vertical Turning Center

HONOR SEIKI Co., Ltd.

www.honorseiki.com

Machine Structure

- High flexibility for production arrangement.
- L / R spindle are available.
- Easy for robot connection.



Auto tool - change system

- Max tool capacity 24 postions.
- Tool-change arm can save time of tool change during process.

Tool holder index system

- Design of tool holder is aiming to increase machining efficiently. The tool holder index system can be divided to 2 or 3 degree of index to meet machining requriement in order to reduce tool-change time efficiently.

High rigidity column

- Wide span column with hardened box way.
- Box way design with Turcite-B coated side way and precision hand scraping.
- 20m/min rapid feed rate.
- Symmetrical axis design ensures high accuracy and long-term stability.

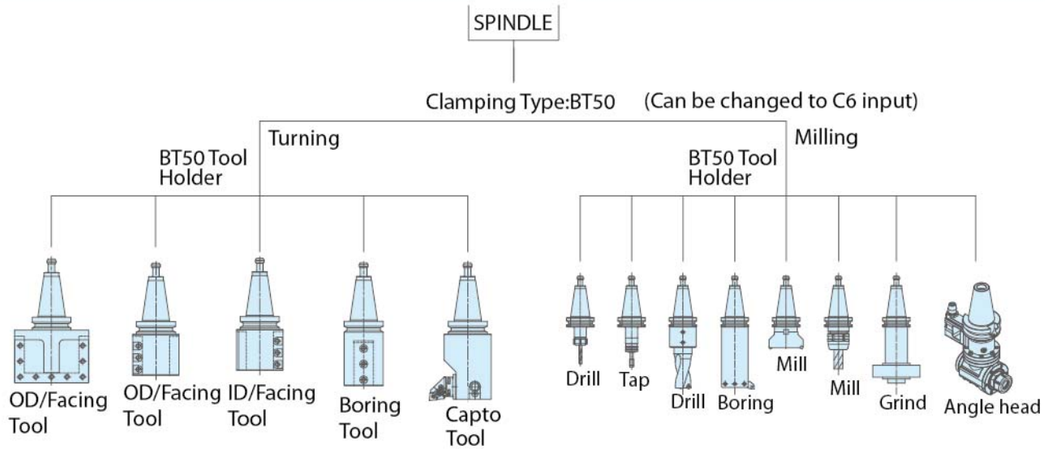
Spindle

- HONOR designed, assembled and tested.
- 100% spindle balancing process offers high durability.
- Symmetrical design absorbs heat variation to maintains long term stability.

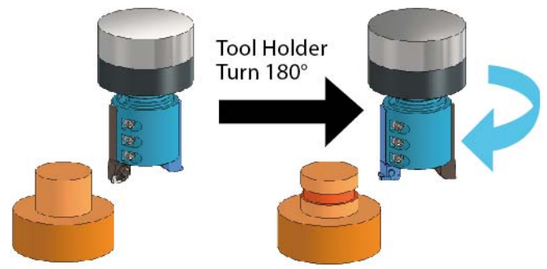
Box in box bed

- High-grade Meehanite casting with box in box structure offers high rigidity and stability for long-term heavy cutting.

Tooling System



• Tool Holder Index System



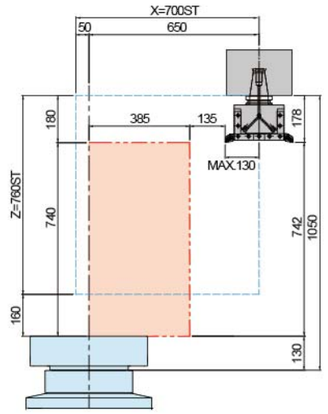
Turning Grooving

• ATC specification

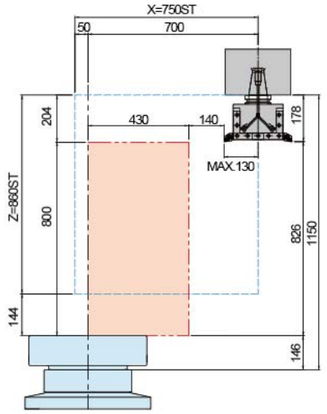
- ATC:24 positions
- Max tool weight ： 25kg/pc
- Average tool weight ： 15kg/pc
- ATC max loading ： 360kg
- Tool max length ： 300mm
- Tool max dia ： □110mm(in full loading)
  □220mm(next pocket empty)

Working Area and Tool interference

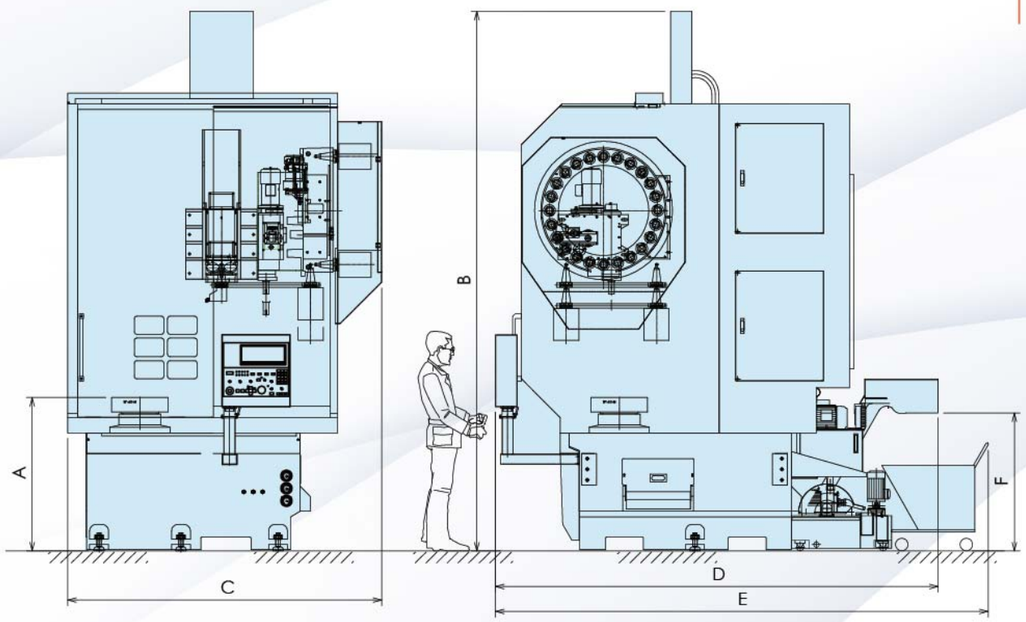
■ VL-66AM



■ VL-86AM



Machine Dimensions



unit:mm

	A	B	C	D	E	F
VL-66AM	1220	4300	2500	3525	3925	1100
VL-86AM	1386	4800	2800	3835	4200	1200

Live Tool Spindle , Torque Chart

■ MODLE:11/15kW

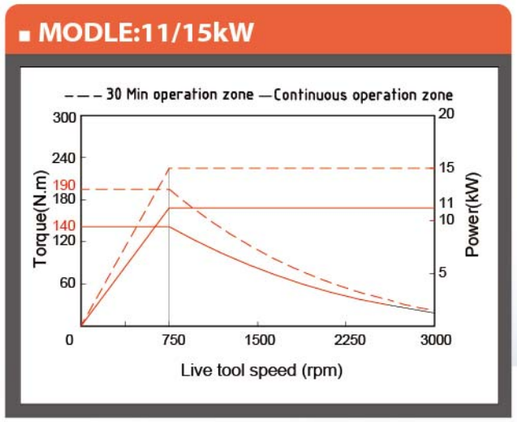
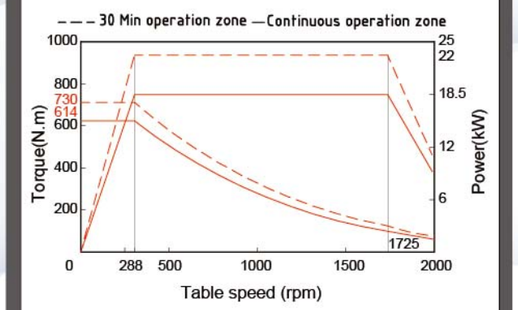
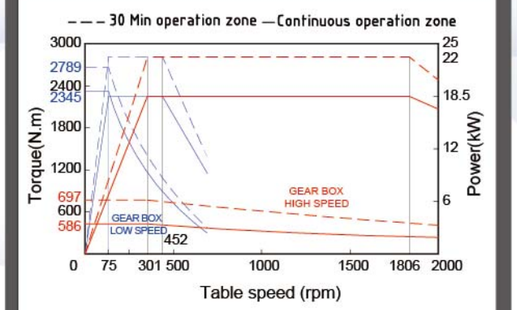


Table Speed, Torque Output Chart

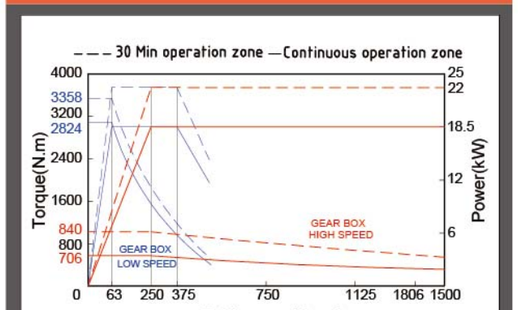
■ VL-66AM 18.5/22kW



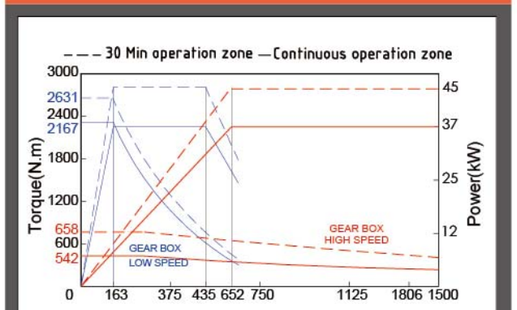
■ VL-66AM 18.5/22kW, 2 step(Option)



■ VL-86AM 18.5/22kW,2 step(Option)

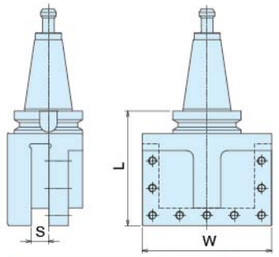


■ VL-86AM 37/45kW, 2 step(Option)



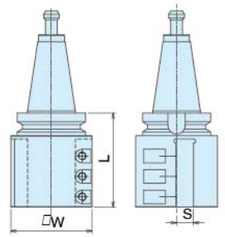
Tool Holder System

■ O.D/Facing tool holder



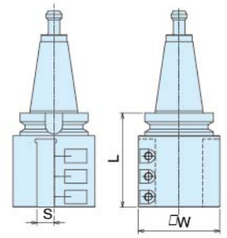
Model	L	S	W
BT50-F25-170-190	170	25	190

■ I.D/Facing tool holder



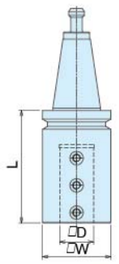
Model	L	S	W
BT50-I25-120-140	140	25	120

■ O.D/Facing tool holder



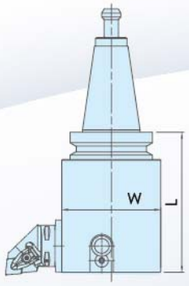
Model	L	S	□W
BT50-O25-120-140	140	25	120

■ Boring tool holder



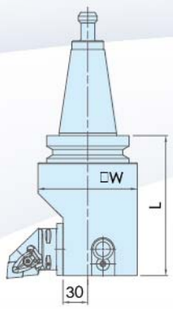
Model	L	□D	□W
BT50-B40-100-165	165	40	100

■ O.D/Facing tool holder



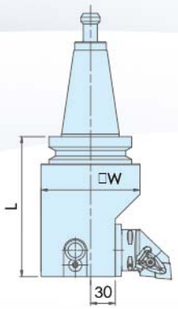
Model	L	W
BT50-FC5-120-170	170	120

■ O.D/Facing tool holder



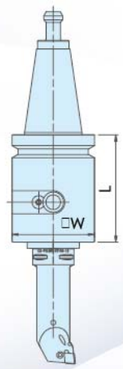
Model	L	□W
BT50-OC5-120-170	170	120

■ I.D/Facing tool holder



Model	L	□W
BT50-IC5-120-170	170	120

■ I.D/Facing tool holder



Model	L	□W
BT50-BC5-100-130	130	100

Option

• Siemens controller

• Air conditioner for electrical cabinet

• Touch probe (workpiece inspection)

Machine Specifications

Model/Description		Unit	VL-66AM	VL-86AM
Capacity	Table diameter	mm(inch)	457(18")	533(21")
	Max. swing diameter	mm(inch)	800(31.4")	1000(39.3")
	Max. turning diameter	mm(inch)	760(29.9")	860(33.8")
	Max. turning height	mm(inch)	740(29.1")	800(31.4")
Travel	Head (X-Axis)	mm (inch)	L50+R650 (L1.9"+R25.5")	L50+R700 (L1.9"+R27.5")
	Ram (Z-Axis)	mm(inch)	760(29.9")	860(33.8")
	Distance from ram end to table	mm(inch)	920(36.2")	1004(39.5")
Spindle	Table speed	rpm	25~2000	25~1500
	Live tool speed	rpm	3000	3000
	Front bearing diameter	mm(inch)	160(6.2")	200(7.8")
	Nose of spindle		A2-11	A2-11
Motor	Table	kw	18.5/22	18.5/22
	Feed motor(X/Z axis)	kw	4/7	4/7
	Live tool motor	kw	11/15	11/15
ATC	Chain type	pockets	24	24
	Tool size		BT50	BT50
	Max Tool length	mm(inch)	300(11.8")	300(11.8")
	Max Tool weight	kg	25	25
	Total tool weight	kg	360	360
Traverse	Rapid rate (X-Axis)	m/min	20	20
	Rapid rate (Z-Axis)	m/min	20	20
	Cutting feed rate	mm/min	1~5000	1~5000
	Feed override	%	0~150	0~150
Controller			Fanuc 0i-T	Fanuc 0i-T
Power sources	Min. requirement	kva	55	55
Dimension	Floor space(LxW)	mm(inch)	3920x2500 (154.3"x98.4")	4200x2800 (165.3"x110.2")
	Height(H)	mm(inch)	4300(169.2")	4800(188.9")
	Net weight	kg	10,500	12,500

Standard accessories

1. Complete splash guard.
2. Hydraulic 3-jaw solid chuck & cylinder
3. Hydraulic power unit
4. Hydraulic chuck soft jaw x 1 set.
5. Automatic lubrication system.
6. Heat exchanger for electrical cabinet
7. Protection door
8. Foot switch for hydraulic chuck
9. Work light
10. Warning light (R/Y/G)
11. Coolant through toolholder to insert
12. Coolant system with tank, bed shower system
13. Service tool box & tool kits.
14. Leveling bolts & seat pads
15. Chip conveyor (Hinge type)
16. Chip trolley
17. Spindle orientation
18. Manual of operation & maintenance
19. Manual of electrical & hydraulic circuit diagram
20. Workpiece counter (CNC controller)

Optional accessories

1. Hydraulic chuck & cylinder, size selection
2. High power motor, αip50(22/30kw), αi40(37/45kW)
3. Air conditioner for electrical cabinet
4. Auto door (Automatic opening & closing of main door)
5. Power transformer (external type)
6. Oli skimmer (Disc type)
7. Oil mist collector
8. Counter display for each insert
9. Dual speed gear box for spindle motor
10. High & low pressure chucking
11. Chuck position sensor
12. Special tool holder
13. Hard jaw of chuck