



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



YES ! WE ARE HONOR !



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Agent:



201909 2000



**VL-300
VL-400
VL-500
VL-600**

Heavy Duty Series

CNC Vertical Lathe / CNC Vertical Turning Center

HONOR SEIKI Co., Ltd.

www.honorseiki.com.tw



■ Honor Seiki continuous to develop quality machines to meet the highest standards in precision, efficiency and reliability.



With 30 years' experience in machine tool design and manufacturing, HONOR SEIKI is the most professional and largest machine tool maker in CNC Vertical Lathe, Vertical Turning Center and Gantry type Turning/Milling/Grinding Center in Taiwan. Honor Seiki brand is internationally recognized and sold over 50 countries with many repeated orders. Unlike others who over diversify, Honor Seiki focuses solely on vertical turning lathe, with an undivided aim to perfect our product line and bring about greatest customer satisfaction. We are very proud of providing our machines to many leading companies around the world. The industrials we provide include aerospace, automotive, railway, high speed rail, mining, oil and gas, wind power...etc. From outer space rockets to deep ocean submarines, all utilize Honor Seiki vertical lathe to maximize their machining potential. We are proud of our accomplishments in bringing accolades to Taiwan. Our business model is based on cooperation, lasting partnership and mutual benefits in order to best serve our clients and help them reap their greatest gain, with special emphasis on Quality, Efficiency, Accuracy, Honest and Responsibility. We always fulfill our promises to our customers. Honor Seiki LTD is your best partnership to prosper and grow your business.

Fields of Application

Vertical Lathe & Vertical Turning Center

- Construction
- Automotive
- Aerospace
- Rail
- Boat
- Bearing

- Valve
- Mold
- Gear
- Machine tool
- Power plant
- Oil & gas
- Wind power



• Thousands Of Successful Turnkey

• Aerospace



• Aerospace



• Aerospace



• Aerospace



• Motor housing



• Motor housing



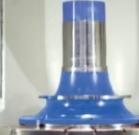
• Textile machine



• Textile machine



• Power plant



• Power plant



• Power plant



• Wind power



• Steering wheel



• Bearing



• Tire mold



• Valve



• Papermaking



• Motor housing



• Flange



• Planet gear



Machine Structure



- Optimum design of Z-axis overhang distance

- Minimize the distance between the ram center and the box way of the column to provide the best rigidity.



- Electrical cabinet

- Easy maintenance circuit arrangement.
- Suitable for all kinds of environment.



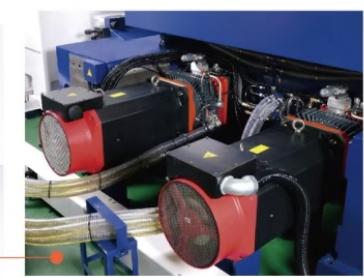
- Positioning lock for the stability of cross-rail.

- Cross-rail ensures parallelism and stability by positioning lock with clamping.



- Solid lock clamping mechanism

- The US innovation patent owned by Honor Seiki provides the great cutting ability to your machine.



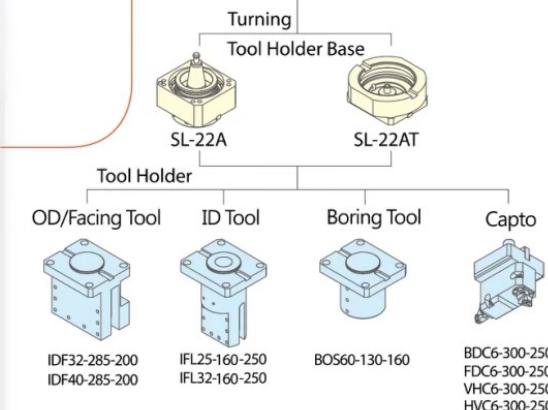
- Two Spindle motor (CM series)
- One-piece big machine bed with built-in gearbox and spindle.

Clamping System

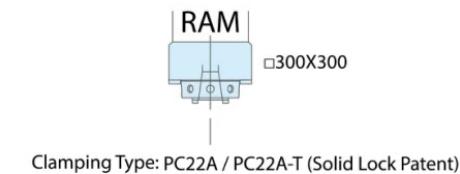
(Turning and milling)



•PC22A (Two Face Contact Tooling / Patent)



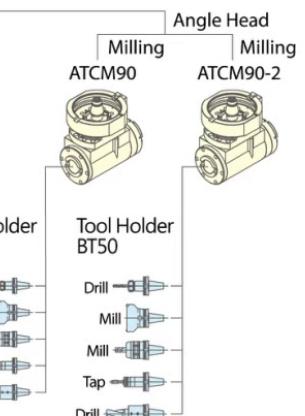
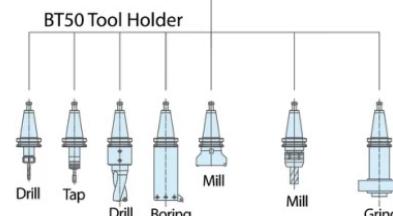
Solid-lock ATC Tool System



Clamping Type: PC22A / PC22A-T (Solid Lock Patent)

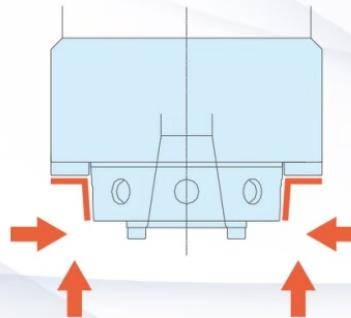


Milling



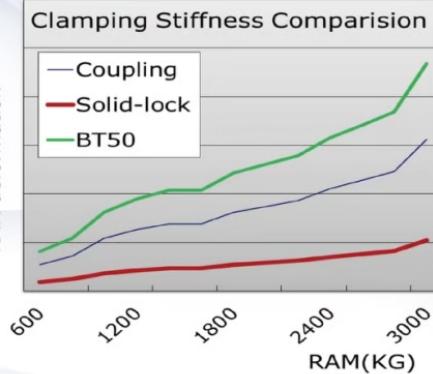
Note:PC22A-T is for turning tool only.
The above graph is for □300x300 only.
Please check our sales representative for further request.

SOLID LOCK (Patent of the U.S, Taiwan and China)

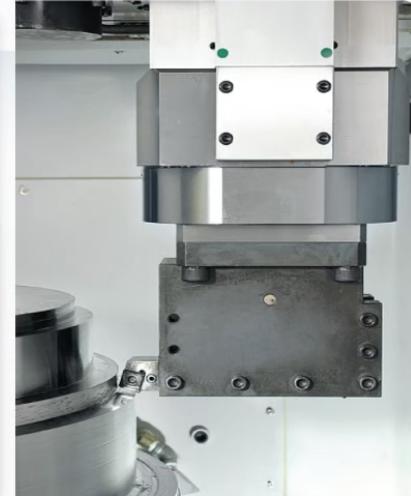


**Two face contact
ball clamping anti-vibration
Max. 8,000kg clamping force**

• Honor Patent!



• Max. Clamping force : 8000 kg



■ Milling Capacity

Model	VL-300CM
Spindle motor	11/15 kW
Material	S45C
Milling cutters	Ø100x7
Cutting depth	4.5 mm
Feed rate	720 mm/min
Cutting speed	160 m/min
Material removable rate	320 cm ³ /min

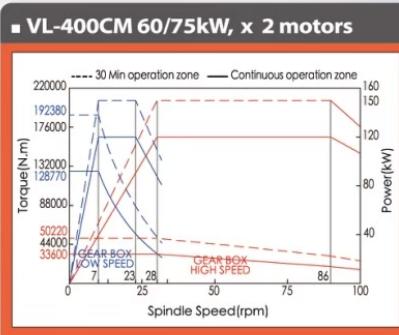
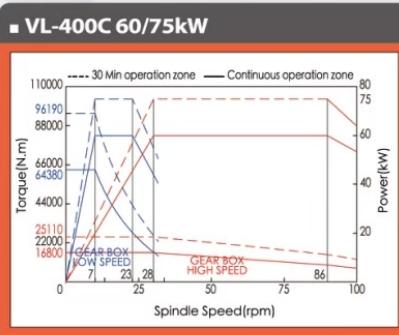
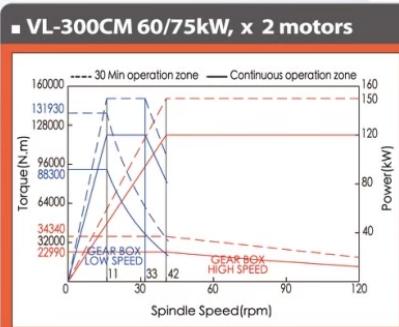
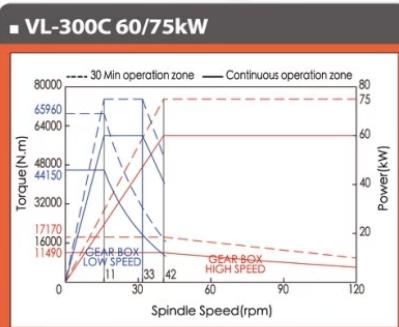


■ Turning Capacity

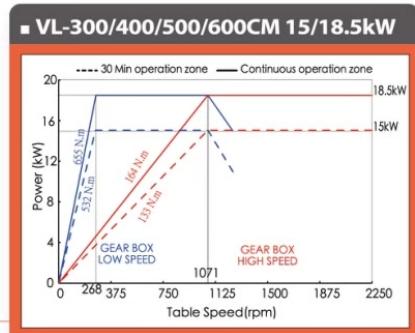
Model	VL-300CM
Spindle motor	60/75 kW * 2
Material	S45C
Cutting depth	13 mm
Feed rate	1.0 mm / rev
Cutting speed	130 m/min
Material removable rate	1690 cm ³ /min



Table Speed, Torque, Output Chart



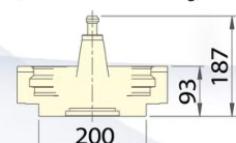
Live Tool Speed, Torque, Output Chart



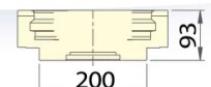
Tool Holder System

■ Tool holder base :

SL-22A
(Two face contact tooling)

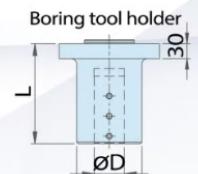
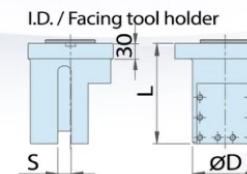
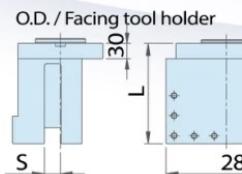


SL-22AT
(Two face contact tooling)



(Unit:mm)

■ SL-22A / SL-22AT Tool holder :



Model L S

Model	L	S
IDF32-285-200	200	32
IDF40-285-200	200	40

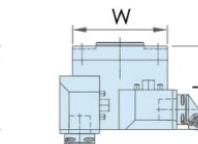
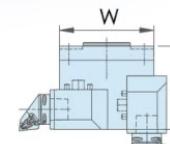
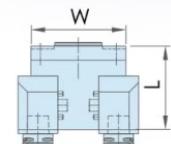
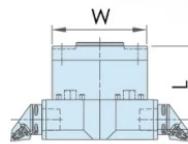
Model L ØD S

Model	L	ØD	S
IFL32-160-250	250	160	32

Model L ØD

Model	L	ØD
BOS60-130-160	160	60

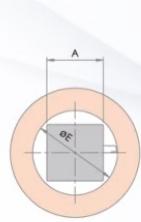
■ Capto Tool holder :



Model L W

Model	L	W
BDC6-300-250	250	300
FDC6-300-250	250	300
VHC6-300-250	250	300
HVC6-300-250	250	300

Working Area And Tool Inetrence



Model	A	ØB	C	ØD	ØE	F	G	R	L
VL-300	300	3000	37	3600	450	1500	880-2380	2000	300
VL-400	300	4000	37	4500	450	1500	880-2380	2450	300
VL-500	400	5000	50	6000	580	2200	1200-3000	3500	100
VL-600	400	6000	50	7000	580	2200	1200-3000	4000	100

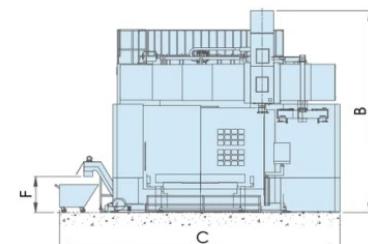
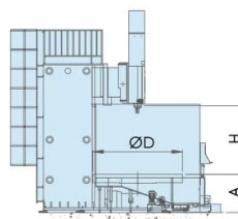
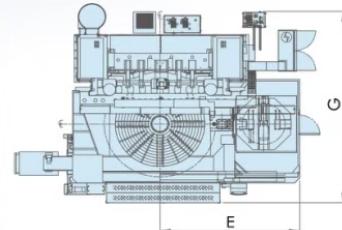
(unit:mm)

Machine Dimensions

VL-300 ~ VL-600 series

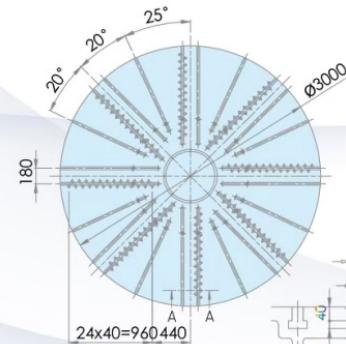
	A	B	C	ØD	E	F	G	H
VL-300C	1365	7430	9400	Ø3000	4700	1280	7250	2380
VL-300CM	1365	7920	9710	Ø3000	5010	1280	7250	2380
VL-400C	1365	7430	12000	Ø4000	5180	1280	7650	2380
VL-400CM	1365	7920	12310	Ø4000	5490	1280	7650	2380
VL-500C	1565	9400	12400	Ø5000	6400	N/A	9000	3000
VL-500CM	1565	10000	13000	Ø5000	6900	N/A	9000	3000
VL-600C	1565	9400	13400	Ø6000	6900	N/A	9500	3000
VL-600CM	1565	10000	14000	Ø6000	7400	N/A	9500	3000

(unit:mm)

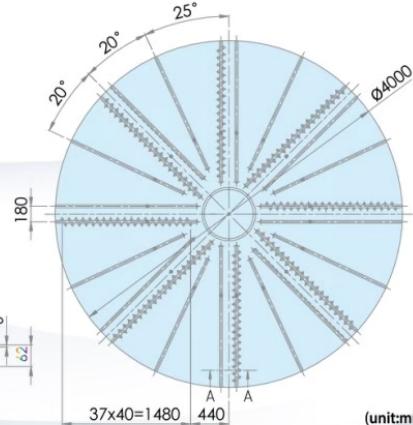


Manual Table Dimensions

VL-300 Series

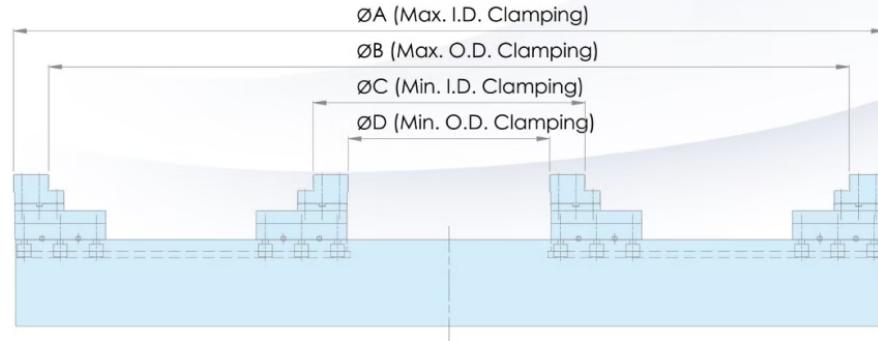


VL-400 Series



(unit:mm)

Workpiece Clamping



Model	A	B	C	D
VL-300	2980	2770	980	700
VL-400	4020	3740	980	700
VL-500	5000	4750	1350	1100
VL-600	5950	5720	1350	1100

(unit:mm)

Option

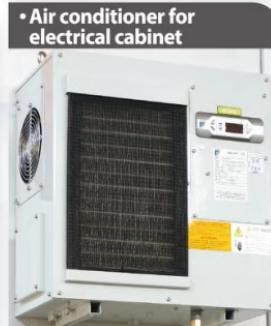
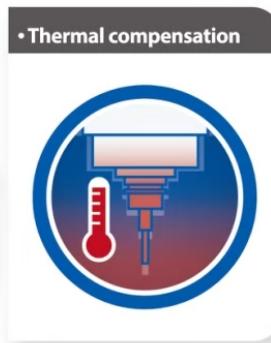
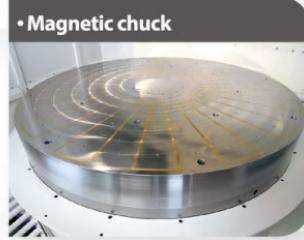
- Fixed Cross-Rail



- 40 ATC



- 2 RAM (Z Axis)

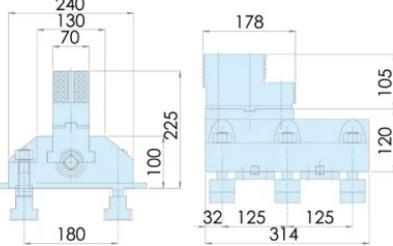


Machine Specifications

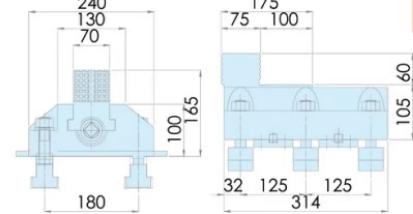
Model/Description	Unit	VL-300C	VL-300CM	VL-400C	VL-400CM	VL-500C	VL-500CM	VL-600C	VL-600CM
Capacity	Max. swing diameter	mm	3600(141")		4500(177")		6000(236")		7000(275")
	Max. turning diameter	mm	3600(141")		4500(177")		6000(236")		7000(275")
	Distance from ram to table	mm	880-2380(34"-93")		880-2380(34"-93")	1200-3000(47"-118")	1200-3000(47"-118")		
	Max. turning height	mm	2000		2000		2600		2600
	Max. workpiece weight	kg	30000		40000		80000		100000
Spindle	Table diameter	mm	3000(118")		4000(157")		5000(196")		6000(236")
	Range of table speed	rpm	3-120		1-85		1-50		1-20
	Gear box		2-step		2-step		2-step		2-step
	Live tool spindle speed	rpm	-	50-2250	-	50-2250	-	50-2250	-
ATC	ATC(Automatic Tool Changer)		16	20	16	20	16	24	16
	Tool size	mm	□32, □40		□32, □40		□32, □40		□32, □40
	Cross-section of ram	mm	300x300		300x300		400x400		400x400
Feed	Rapid rate (X-Axis)	m/min	10		10		10		10
	Rapid rate (Z-Axis)	m/min	10		10		10		10
	Horizontal travel(X-Axis)	mm	-300+2000		-300+2450		-100+3000		-100+4000
	Vertical travel (Z-Axis)	mm	1500		1500		2200		2200
	Cutting feed rate	mm/min	2000		2000		2000		2000
	Feed override	%	0-150		0-150		0-150		0-150
Machine size	Cross-rail travel	mm	1500(250x6 step)		1500(250x6 step)	1800(300x6 step)	1800(300x6 step)		
	Control System		Fanuc 0i-T		Fanuc 0i-T		Fanuc 0i-T		Fanuc 0i-T
	Spindle motor (Cont./30min)	kW	60/75	65/75*2	60/75	65/75*2	60/75	65/75*2	60/75
	Feed motor (X/Z axis)	kW	5.5/5.5		5.5/5.5		5.5/5.5		5.5/5.5
Motor	Live tool motor	kW	-	AC15/18.5	-	AC15/18.5	-	AC15/18.5	-
	Power requirement	kVA	120	210	130	230	140	250	150
	Floor space(LxW)	mm	9800x7300		12400x7700		13000x9000		14000x9500
Machine size	Max. height(H)	mm	7500	8000	7500	8000	9500	10000	9500
	Net weight	kg	118800	120300	132000	133500	139000	140000	169000
* The specifications are subject to change without notice									

Jaws Dimensions

• C Type (standard)



• F Type



Standard accessories

1. Complete splash guard.
2. Hydraulic power unit.
3. Table with manual 8-jaw chuck.
4. Protection door.
5. Automatic lubrication system.
6. Working light.
7. Warning light (R/Y/G).
8. Workpiece counter (CNC controller).
9. Coolant system with tank.
10. Coolant bed wash down system.
11. Heat exchanger for electrical cabinet.
12. Hand tool sets with tool box.
13. Leveling bolts & seat pads.
14. Chip conveyor (Hinge type).
15. Chip trolley.
16. Spindle orientation.
17. Manual of operation & maintenance.
18. Manual of electrical & hydraulic circuit diagram.

Optional accessories

1. Hydraulic chuck & cylinder, size selections.
2. Higher power motor.
3. Air conditioner for electrical cabinet (Standard for CM series).
4. Power transformer (external).
5. Oil skimmer (Disk type).
6. Tool holder base.
7. Other tool holder & special tool holder.
8. Tool presetter.
9. Linear encoder of X/Z axis.
10. High & low pressure chucking.
11. Lubricant chiller for spindle bearing & gear.
12. Extend vertical travel (Z axis).
13. Hard jaw for hydraulic chuck.
14. High pressure coolant through tool holder.
15. Dual speed gear box for tool live spindle.
16. Chip conveyor (scraper type).
17. Manual guide i.
18. CE certificate.
19. Tooling.
20. Jig & fixture.
21. Turnkey project.
22. Siemens controller.

NOTE