

High Precision / High Efficiency
High Durability / Perfection



HONOR YES! WE ARE HONOR!



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

Heavy Duty Series



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CNC Vertical Lathe / CNC Vertical Turning Center

HONOR SEIKI Co., Ltd.

www.honorseiki.com.tw



Agent:

Fields of Application

Vertical Lathe & Vertical Turning Center

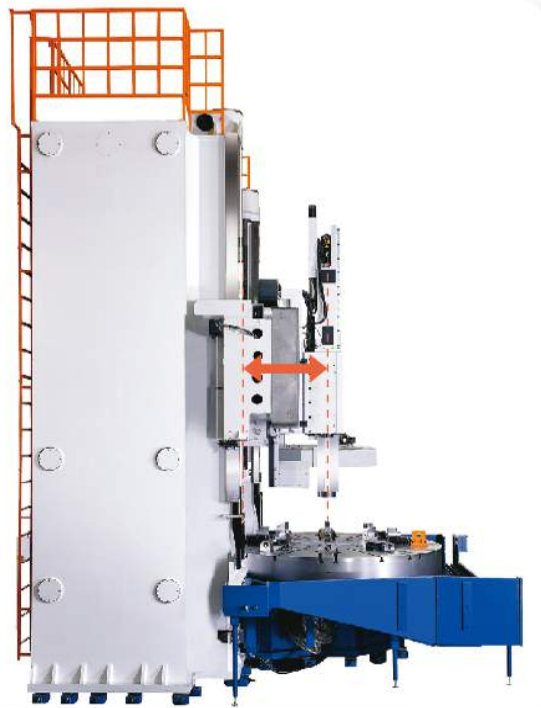
- Construction
- Automotive
- Aerospace
- Rail
- Boat
- Bearing
- Valve
- Mold
- Gear
- Machine tool
- Power plant
- Oil & gas
- Wind power



• Thousands Of Successful Turnkey



Machine Structure



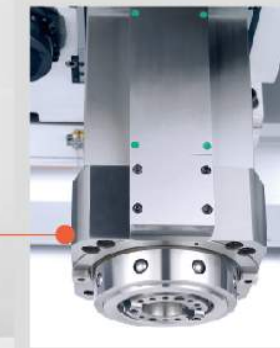
- **Optimum design of Z-axis overhang distance**
 - Minimize the distance between the ram center and the box way of the column to provide the best rigidity.



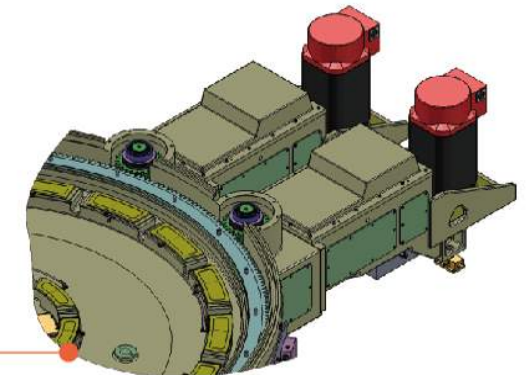
- **Electrical cabinet**
 - Easy maintenance circuit arrangement.
 - Suitable for all kinds of environment.



- **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**
- **One-piece big machine bed with built-in gearbox and spindle.**

Clamping System

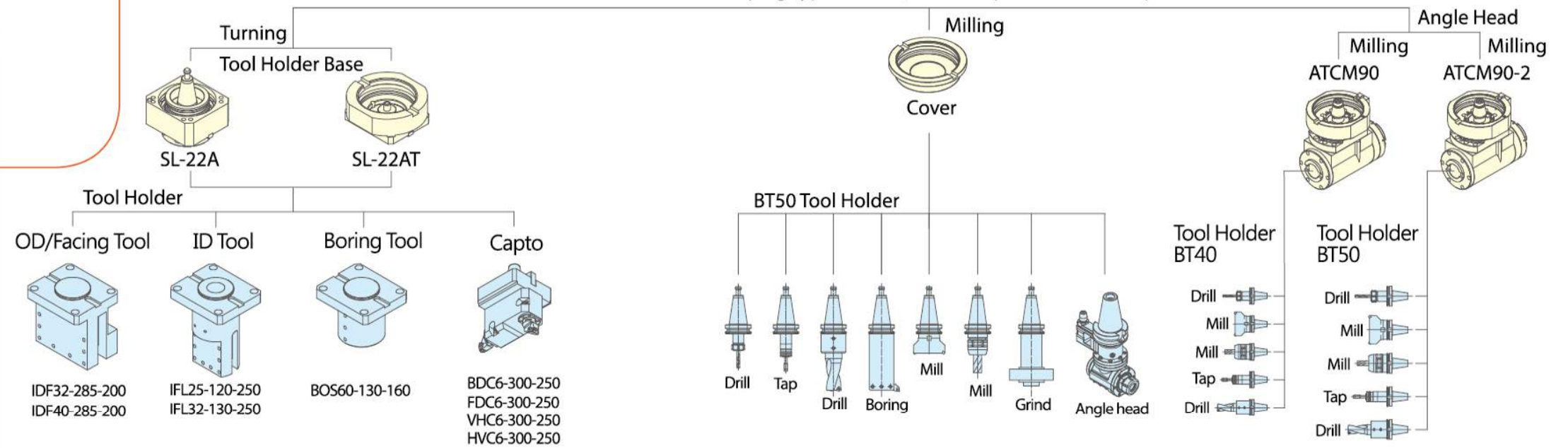
(Turning and milling)



Solid-lock ATC Tool System

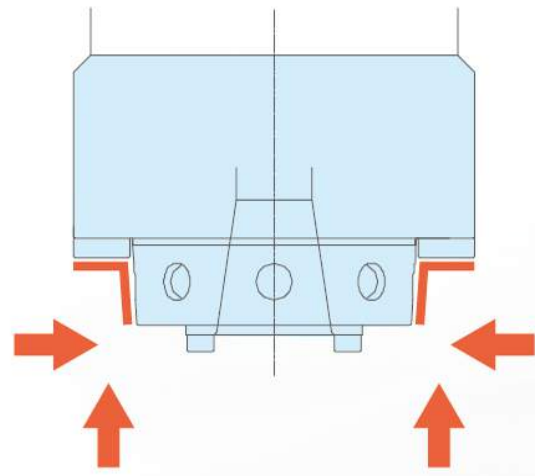


• PC22A (Two Face Contact Tooling / Patent)



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

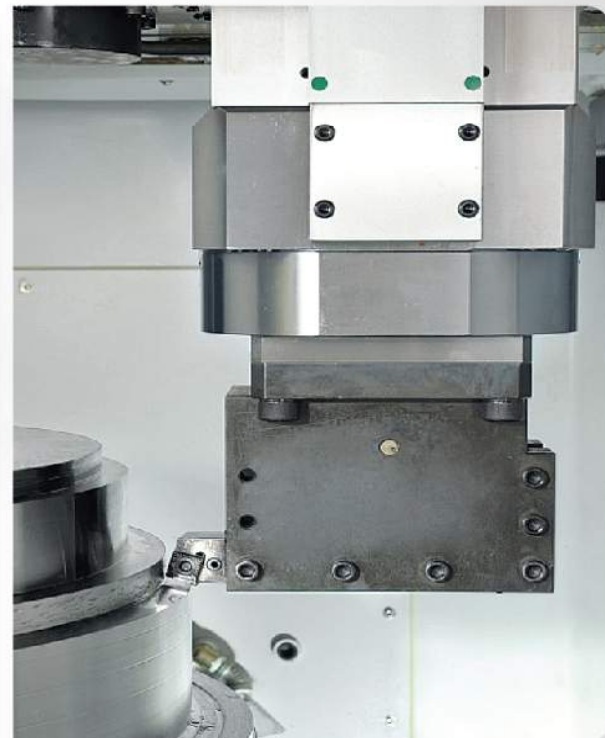
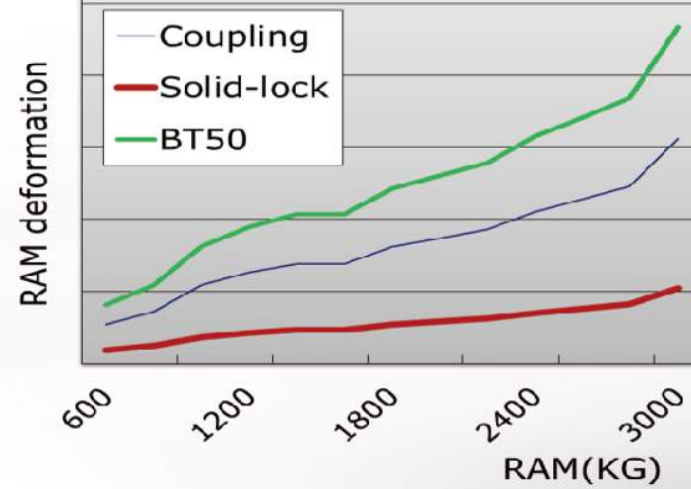
SOLID LOCK (Patent of the U.S, Taiwan and China)



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

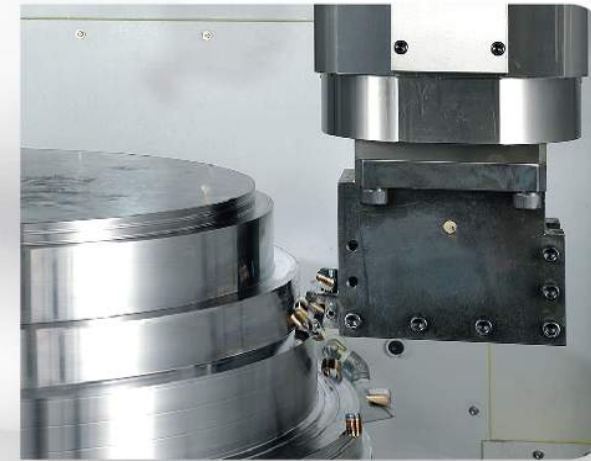
• Honor Patent!

Clamping Stiffness Comparison



■ 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



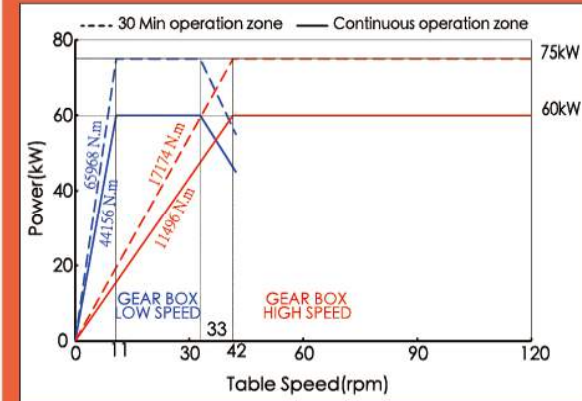
■ Turning Capacity

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

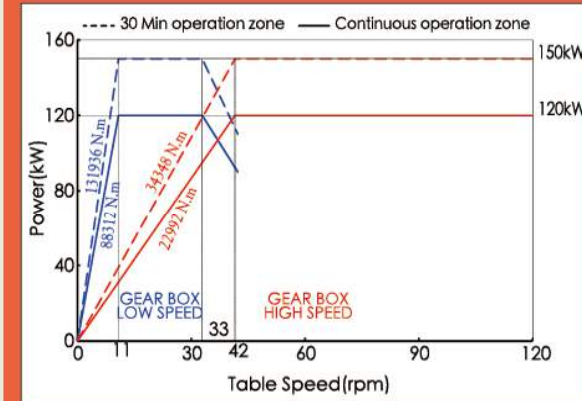


Table Speed, Torque, Output Chart

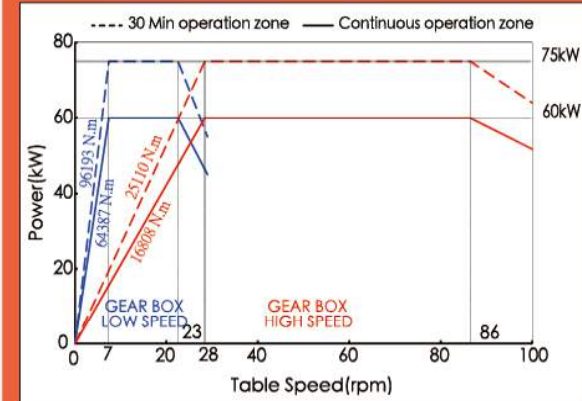
VL-300C 60/75kW



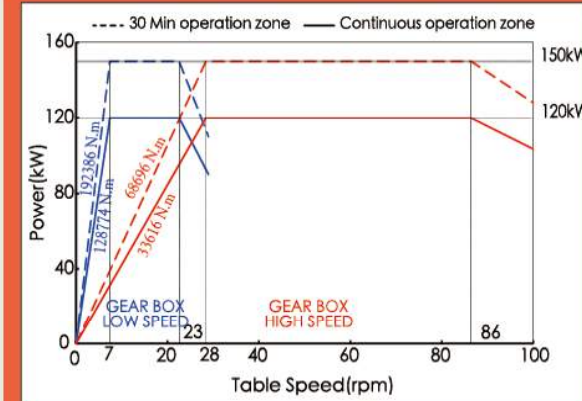
VL-300CM 60/75kW, x 2 motors



VL-400C 60/75kW

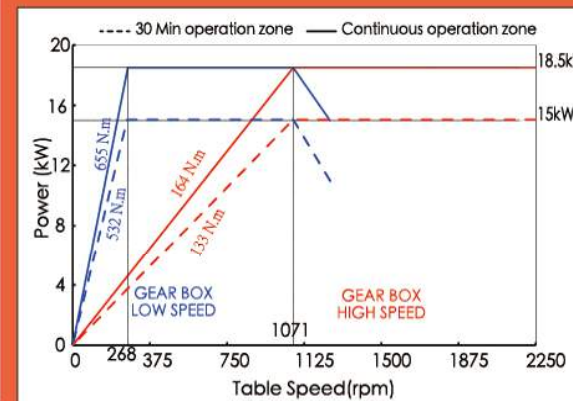


VL-400CM 60/75kW, x 2 motors



Live Tool Speed, Torque, Output Chart

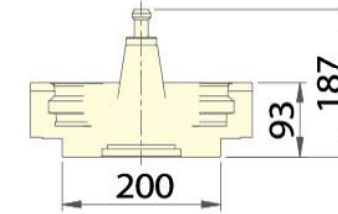
VL-300/400/500/600CM 15/18.5kW



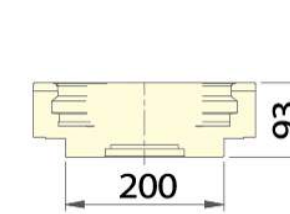
Tool Holder System (Available for VL-300/VL-400 series)

Tool holder base :

SL-22A (Two face contact tooling)

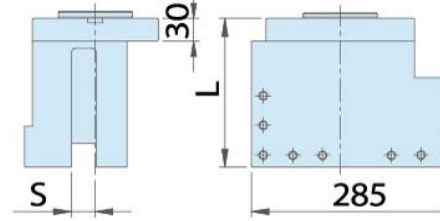


SL-22AT (Two face contact tooling)



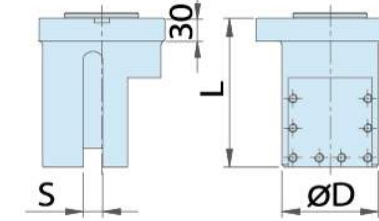
SL-22A / SL-22AT Tool holder :

O.D. / Facing tool holder



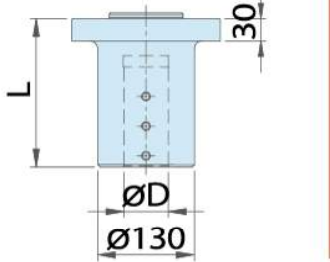
Model	L	S
IDF32-285-200	200	32
IDF40-285-200	200	40

I.D. / Facing tool holder



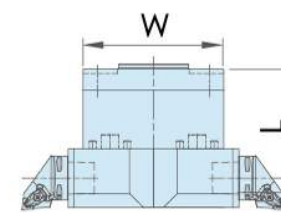
Model	L	ØD	S
IFL25-120-250	250	120	25
IFL32-130-250	250	130	32

Boring tool holder

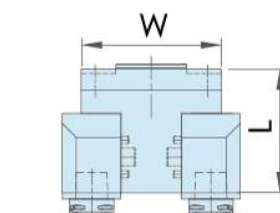


Model	L	ØD
BOS60-130-160	160	60

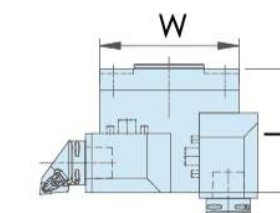
Capto Tool holder :



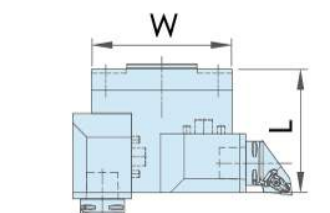
Model	L	W
BDC6-300-250	250	300



Model	L	W
FDC6-300-250	250	300



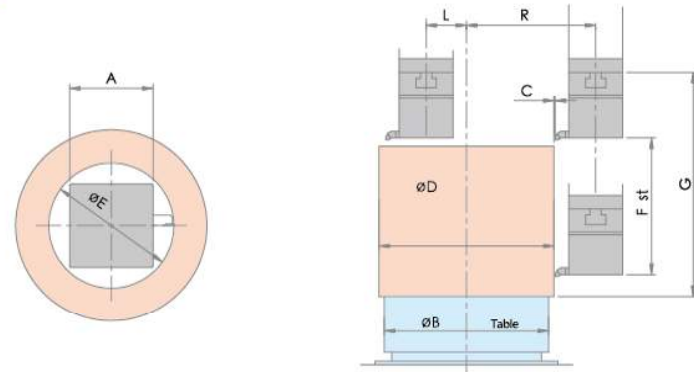
Model	L	W
VHC6-300-250	250	300



Model	L	W
HVC6-300-250	250	300

Note: The above tool system is available for VL-300 to VL-400 series only. Please check our sales representative for further request.

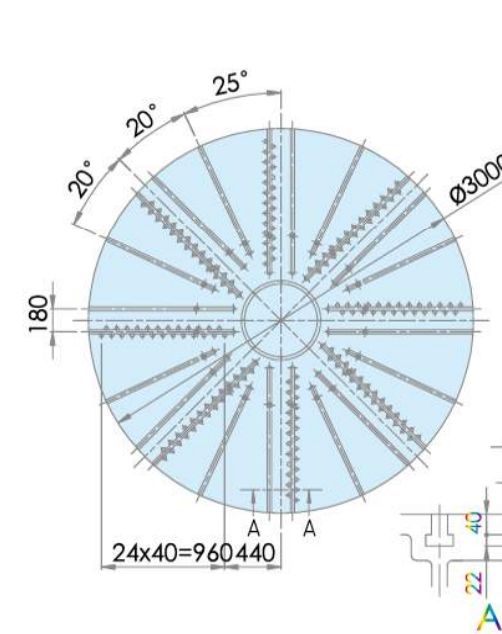
Working Area And Tool Inetrence



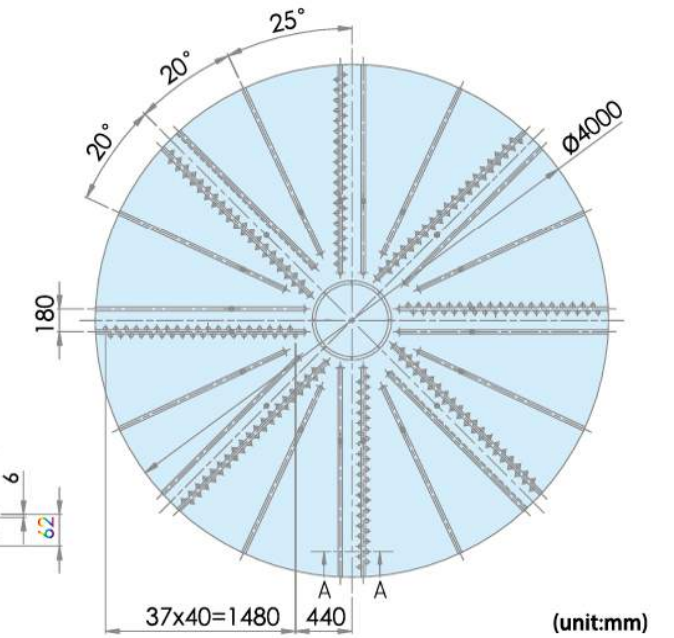
Model	A	$\varnothing B$	C	$\varnothing D$	$\varnothing E$	F	G	R	L
VL-300	300	3000	37	3600	450	1500	880-2380	2000	300
VL-400	300	4000	37	4500	450	1500	880-2380	2450	300
VL-500	400	5000	50	6000	580	2200	1200-3000	3500	100
VL-600	400	6000	50	7000	580	2200	1200-3000	4000	100

Manual Table Dimensions

VL-300 Series



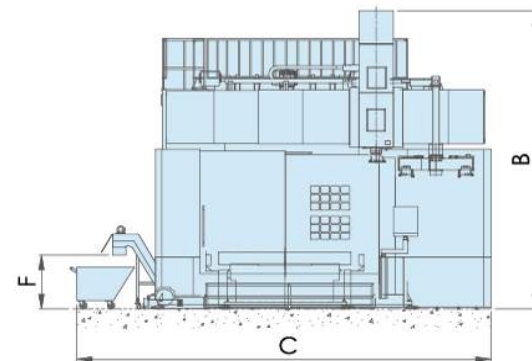
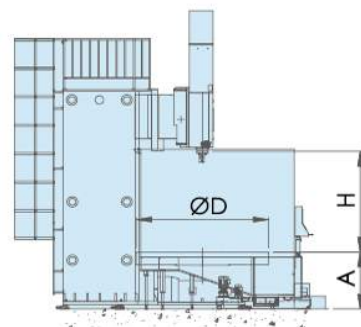
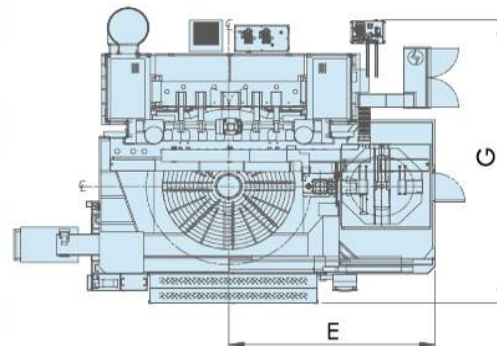
VL-400 Series



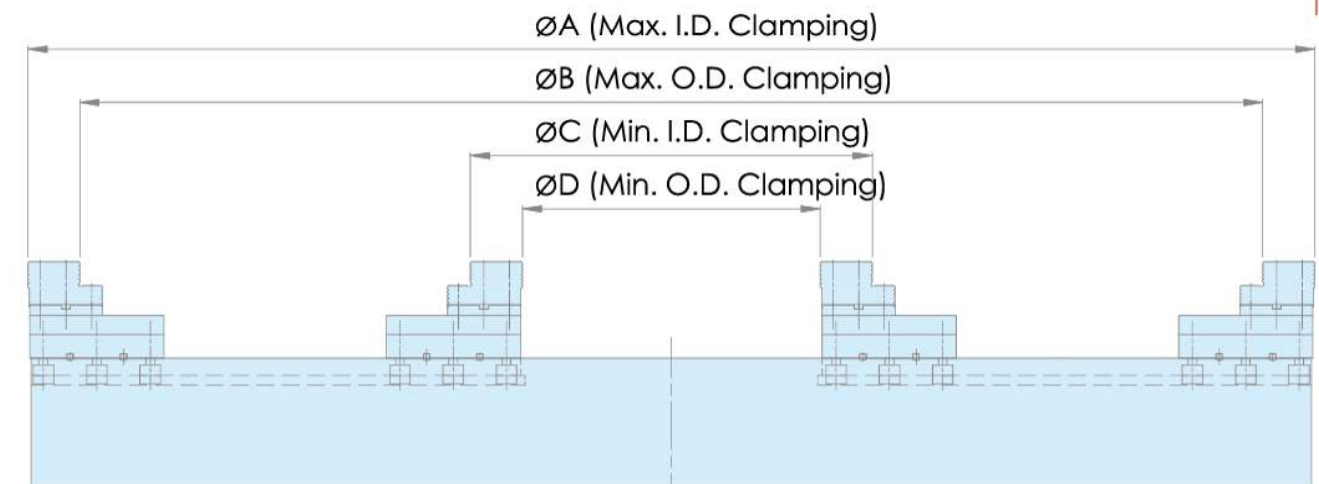
Machine Dimensions

VL-300 ~ VL-600 series

	A	B	C	$\varnothing D$	E	F	G	H
VL-300C	1365	7150	9400	$\varnothing 3000$	4680	1280	6750	2380
VL-300CM	1365	7750	9400	$\varnothing 3000$	4680	1280	6750	2380
VL-400C	1365	7150	10200	$\varnothing 4000$	5130	1280	7200	2380
VL-400CM	1365	7150	10200	$\varnothing 4000$	5130	1280	7200	2380
VL-500C	1560	10000	11500	$\varnothing 5000$	6400	N/A	10200	3000
VL-500CM	1560	10600	11500	$\varnothing 5000$	6400	N/A	10200	3000
VL-600C	1560	10000	12500	$\varnothing 6000$	6900	N/A	11000	3000
VL-600CM	1560	10600	12500	$\varnothing 6000$	6900	N/A	11000	3000



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	6000	5750	1350	1100

Option

• Fixed Cross-Rail



• 40 ATC



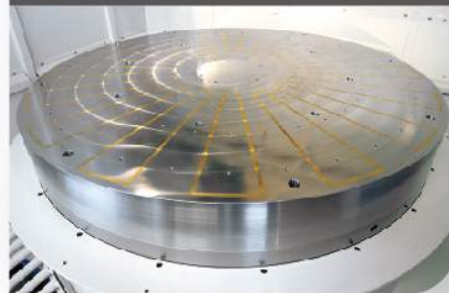
• 2 RAM (Z Axis)



• Hydraulic chuck



• Magnetic chuck



• Tool presetter



• Spin window



• Linear encoder



• Siemens controller



• Oil skimmer (disk)



• Thermal compensation



• Air conditioner for electrical cabinet



• Second control box



• Paper type filter



• Touch probe (workpiece inspection)



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	4500	6000	7000				
	Max. turning diameter	mm	3600	4500	6000	7000				
	Distance from ram to table	mm	880-2380	880-2320	1200-3000	1200-3000				
	Max. turning height	mm	2000	2000	2600	2600				
	Max. workpiece weight	kg	30000	40000	80000	100000				
Spindle	Table diameter	mm	3000	4000	5000	6000				
	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	-	50-2250
ATC	ATC(Automatic Tool Changer)		16	20	16	20	16	24	16	24
	Tool size	mm	□32, □40	□32, □40	□32, □40	□32, □40	□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				
	Cross-rail travel	mm	1500(250x6 step)	1500(250x6 step)	1800(300x6 step)	1800(300x6 step)				
Control System		Fanuc 0i-TD		Fanuc 0i-TD		Fanuc 0i-TD		Fanuc 0i-TD		
Motor	Spindle motor (Cont./30min)	kW	60/75	65/75*2	60/75	65/75*2	60/75	65/75*2	60/75	65/75*2
	Feed motor(X/Z axis)	kW	5.5/5.5		5.5/5.5		5.5/5.5		5.5/5.5	
	Live tool motor	kW	-	AC15/18.5	-	AC15/18.5	-	AC15/18.5	-	AC15/18.5
Power requirement	kVA									
Machine size	Floor space(LxW)	mm	8500x6500		10200x7000		12500x9000		13000x11000	
	Max. height(H)	mm	7400	8000	7400	8000	9000	10000	9000	10000
	Net weight	kg	99000	100000	114000	115000	139000	140000	169000	170000

Standard accessories

- Complete splash guard.
- Foot switch for hydraulic chuck.
- Hydraulic power unit.
- Table with manual 8-jaw chuck.
- Protection door.
- Automatic lubrication system.
- Working light.
- Warning light.(R/Y/G)
- Workpiece counter.(CNC controller)
- Coolant system with tank.
- Coolant bed wash down system.
- Heat exchanger for electrical cabinet.
- Hand tool sets with tool box.
- Leveling bolts & seat pads.
- Chip conveyor.(Hinge type)
- Chip trolley.
- Spindle orientation.
- Manual of operation & maintenance.
- Manual of electrical & hydraulic circuit diagram.

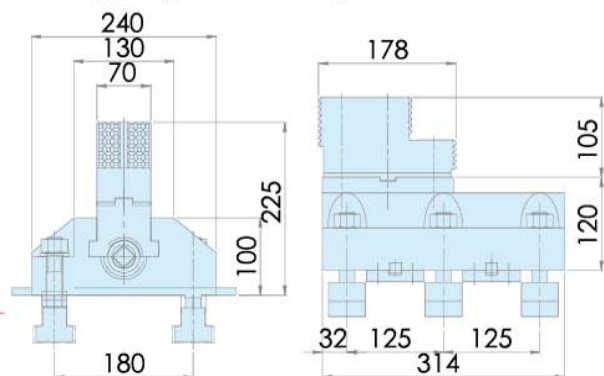
Optional accessories

- Hydraulic chuck & cylinder, size selections.
- Higher power motor.
- Air conditioner for electrical cabinet.
- Power transformer.(external)
- Oil skimmer.(Disk type)
- Tool holder base.
- Other tool holder & special tool holder.
- Tool presetter.
- Linear encoder of X/Z axis.
- High & low pressure chucking.
- Lubricant chiller for spindle bearing & gear.
- Extend vertical travel.(Z axis)
- Hard jaw for hydraulic chuck.
- High pressure coolant through tool holder.
- Dual speed gear box for tool live spindle.
- Chip conveyor.(scraper type)
- Manual guide *i*.
- CE certificate.
- Tooling.
- Jig & fixture.
- Turnkey project.
- Siemens controller.

NOTE

Jaws Dimensions

• C Type (standard)



• F Type

