



YES! WE ARE HONOR!

CNC VERTICAL LATHE CNC VERTICAL TURNING CENTER

High precision. High efficiency. High durability. Perfection.

High Speed Series

VL-46

VL-66

VL-86

VL-100

Professional!
High Speed!

CE



ISO 9001:2000



 **HONOR SEIKI Co., Ltd.**



VL-46A



Max. swing dia.: 560mm
 Max. turning dia.: 460mm
 Max. turning height: 450mm
 Chuck dia.: 12 inch
 Spindle bearing dia.: 120mm
 Spindle speed: 2250rpm
 Power turret: H12



VL-46AR



Max. swing dia.: 560mm
 Max. turning dia.: 460mm
 Max. turning height: 450mm
 Chuck dia.: 12 inch
 Spindle bearing dia.: 120mm
 Spindle speed: 2250rpm
 Power turret: H12



VL-46G



Max. swing dia.: 560mm
 Max. turning dia.: 460mm
 Max. turning height: 450mm
 Chuck dia.: 12 inch
 Spindle bearing dia.: 120mm
 Spindle speed: 2250rpm
 Power turret: G5



VL-46H



Max. swing dia.: 560mm
 Max. turning dia.: 460mm
 Max. turning height: 450mm
 Chuck dia.: 12 inch
 Spindle bearing dia.: 120mm
 Spindle speed: 2250rpm
 Power turret: V4/V6



VL-46F



Max. swing dia.: 560mm
 Max. turning dia.: 460mm
 Max. turning height: 450mm
 Chuck dia.: 12 inch
 Spindle bearing dia.: 120mm
 Spindle speed: 2250rpm
 Power turret: V6



VL-46M



Max. swing dia.: 560mm
 Max. turning dia.: 460mm
 Max. turning height: 450mm
 Chuck dia.: 12 inch
 Spindle bearing dia.: 120mm
 Spindle speed: 2250rpm
 Power turret: H12



VL-46AT



Max. swing dia.: 560mm
 Max. turning dia.: 460mm
 Max. turning height: 450mm
 Chuck dia.: 12 inch
 Spindle bearing dia.: 120mm
 Spindle speed: 2250rpm
 Turret: H12+H12



VL-46MT



Max. swing dia.: 560mm
 Max. turning dia.: 460mm
 Max. turning height: 450mm
 Chuck dia.: 12 inch
 Spindle bearing dia.: 120mm
 Spindle speed: 2250rpm
 Power turret: H12+H12



VL-66A



Max. swing dia.: 800mm
 Max. turning dia.: 760mm
 Max. turning height: 750mm
 Chuck dia.: 18 inch
 Spindle bearing dia.: 160mm
 Spindle speed: 2000rpm
 Turret: H12



VL-66AR



Max. swing dia.: 800mm
 Max. turning dia.: 760mm
 Max. turning height: 750mm
 Chuck dia.: 18 inch
 Spindle bearing dia.: 160mm
 Spindle speed: 2000rpm
 Turret: H12



VL-66H



Max. swing dia.: 800mm
 Max. turning dia.: 760mm
 Max. turning height: 750mm
 Chuck dia.: 18 inch
 Spindle bearing dia.: 160mm
 Spindle speed: 1500rpm
 Turret: V4/V6



VL-66F



Max. swing dia.: 800mm
 Max. turning dia.: 760mm
 Max. turning height: 750mm
 Chuck dia.: 18 inch
 Spindle bearing dia.: 160mm
 Spindle speed: 2000rpm
 Power turret: V8



VL-66AT



Max. swing dia.: 800mm
 Max. turning dia.: 760mm
 Max. turning height: 750mm
 Chuck dia.: 18 inch
 Spindle bearing dia.: 160mm
 Spindle speed: 2000rpm
 Turret: H12+H12



VL-66MT



Max. swing dia.: 800mm
 Max. turning dia.: 760mm
 Max. turning height: 750mm
 Chuck dia.: 18 inch
 Spindle bearing dia.: 160mm
 Spindle speed: 2000rpm
 Power turret: H12+H12



VL-66M



Max. swing dia.: 800mm
 Max. turning dia.: 760mm
 Max. turning height: 750mm
 Chuck dia.: 18 inch
 Spindle bearing dia.: 160mm
 Spindle speed: 2000rpm
 Power turret: H12



VL-86F



Max. swing dia.: 1000mm
 Max. turning dia.: 860mm
 Max. turning height: 850mm
 Chuck dia.: 21 inch
 Spindle bearing dia.: 200mm
 Spindle speed: 1500rpm
 Power turret: V8



VL-86A



Max. swing dia.: 1000mm
 Max. turning dia.: 860mm
 Max. turning height: 850mm
 Chuck dia.: 21 inch
 Spindle bearing dia.: 200mm
 Spindle speed: 1500rpm
 Turret: H12



VL-86AR



Max. swing dia.: 1000mm
 Max. turning dia.: 860mm
 Max. turning height: 850mm
 Chuck dia.: 21 inch
 Spindle bearing dia.: 200mm
 Spindle speed: 1500rpm
 Turret: H12



VL-86H



Max. swing dia.: 1000mm
 Max. turning dia.: 860mm
 Max. turning height: 850mm
 Chuck dia.: 21 inch
 Spindle bearing dia.: 200mm
 Spindle speed: 1250rpm
 Turret: V4/V6



VL-86M



Max. swing dia.: 1000mm
 Max. turning dia.: 860mm
 Max. turning height: 850mm
 Chuck dia.: 21 inch
 Spindle bearing dia.: 200mm
 Spindle speed: 1500rpm
 Power turret: H12



VL-86AT



Max. swing dia.: 1000mm
 Max. turning dia.: 860mm
 Max. turning height: 850mm
 Chuck dia.: 21 inch
 Spindle bearing dia.: 200mm
 Spindle speed: 1500rpm
 Turret: H12+H12



VL-86MT



Max. swing dia.: 1000mm
 Max. turning dia.: 860mm
 Max. turning height: 850mm
 Chuck dia.: 21 inch
 Spindle bearing dia.: 200mm
 Spindle speed: 1500rpm
 Power turret: H12+H12



VL-100A



Max. swing dia.: 1320mm
 Max. turning dia.: 1100mm
 Max. turning height: 1000mm
 Chuck dia.: 40 inch
 Spindle bearing dia.: 200mm
 Spindle speed: 5-850rpm
 Turret: H12



HL-32AT / HL-32MT



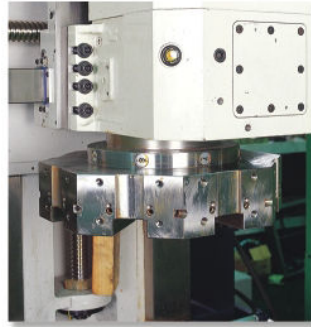
Max. turning dia.: 400mm
 Max. turning length: 230mm
 Chuck dia.: 10 inch
 Spindle bearing dia.: 120mm
 Spindle speed: 25-3500rpm
 Turret: 10T+10T



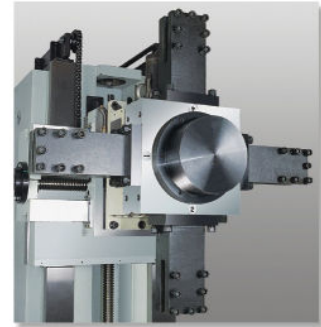
VL-46 VL-66 VL-86 VL-100 High speed series



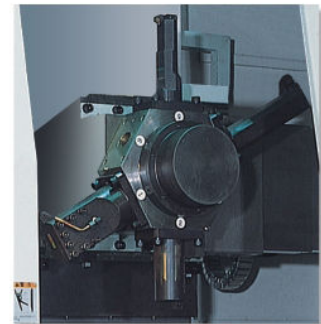
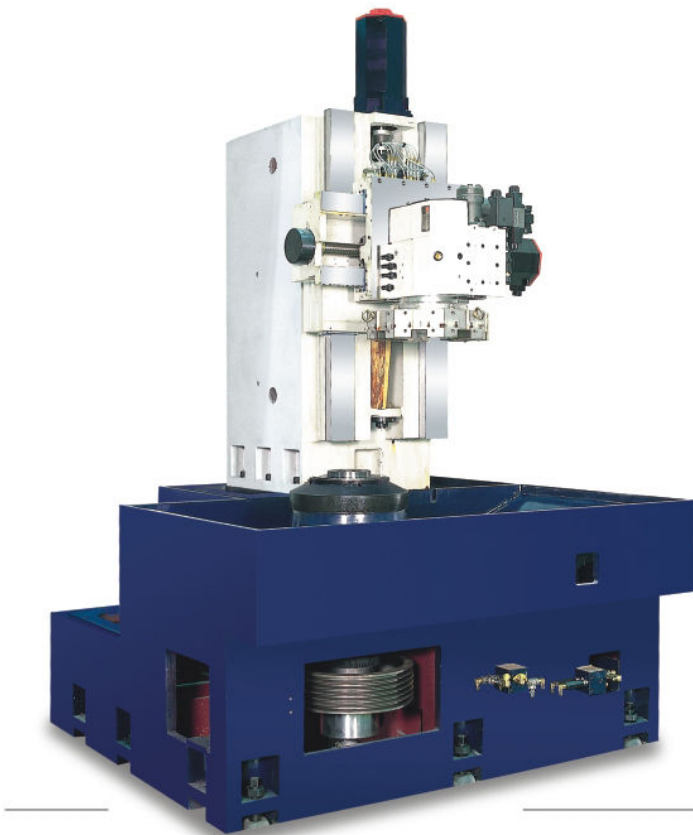
- G-type.
- G5.



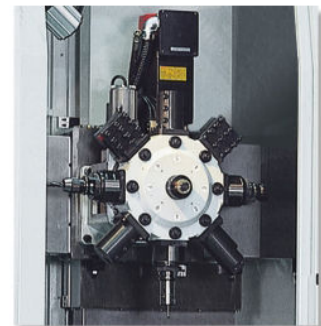
- A-type.
- H8 or H12, Turret.



- H-type.
- V4, Turret.



- H-type.
- V6, Turret.



- F-type.
- V8, Turret.



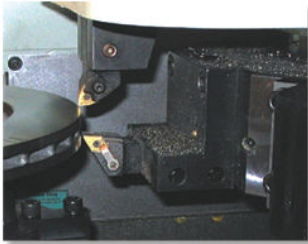
- Special chuck. (Options)



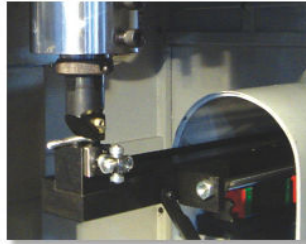
- M-type, Turning.
- H12, Turret.



- M-type Drilling.
- H12, Turret.



● Double tooling device simultaneously.



● Tool presetter.



● Outside counter for each inserts.



● High torque main spindle motor with built-in dual speed gearbox.



● High and low pressure of hydraulic chuck.



● Air conditioner of cabinet.



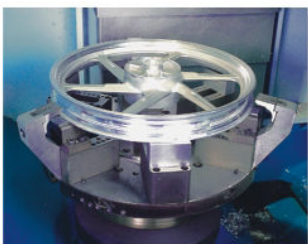
● Second control box.



● Coolant system (3 bar and more).



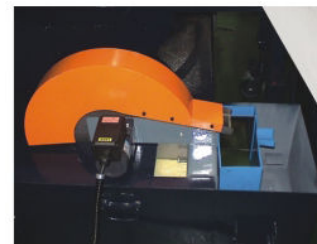
● Auto door.



● Finger hydraulic chuck.



● Oil mist collector.

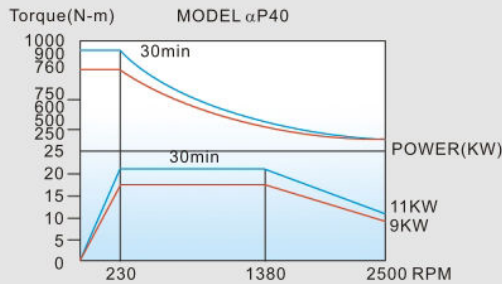


● Oil skimmer (Disk type).

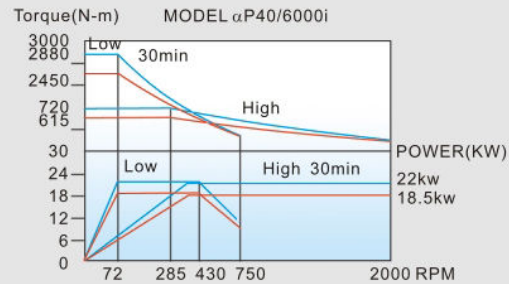


Table-speed, Torque, Output chart

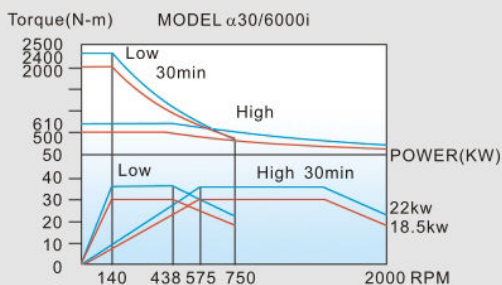
■ VL-46 Series, α ip 18.5/22kw



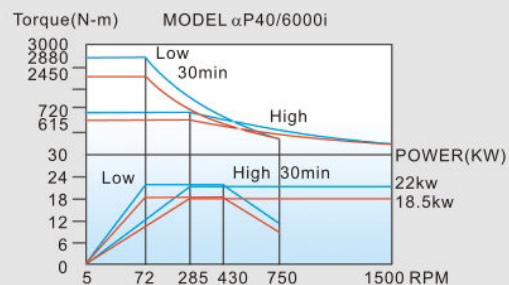
■ VL-66 Series, α ip 18.5/22kw, 2 Steps



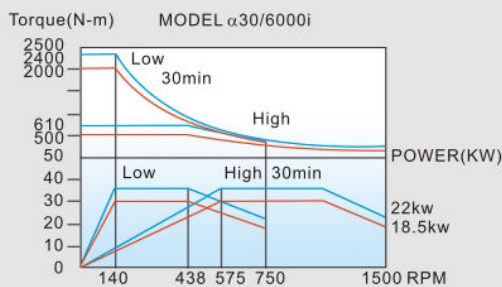
■ VL-66 Series, α 30/37kw, 2 Steps



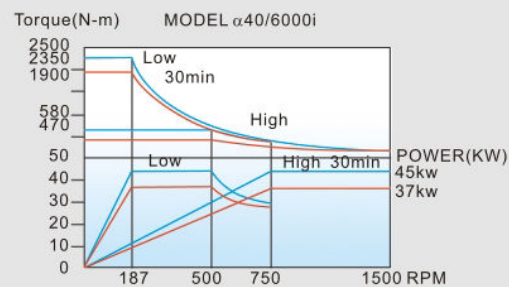
■ VL-86 Series, α ip 18.5/22kw, 2 Steps



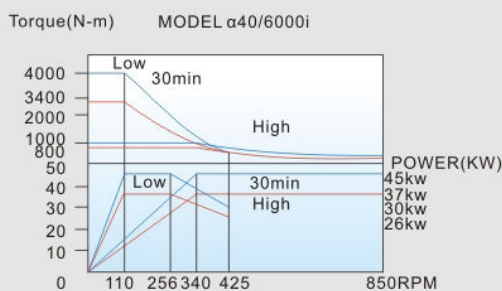
■ VL-86 Series, α 30/37kw, 2 Steps



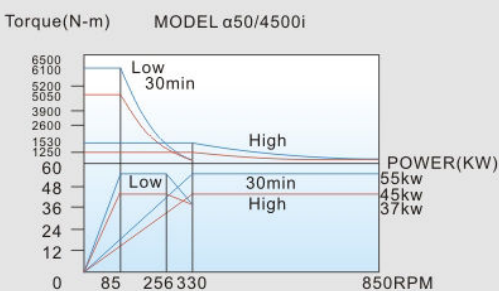
■ VL-86 Series, α 37/45kw, 2 Steps



■ VL-100 Series, α 37/45kw, 2 Steps



■ VL-100 Series, α 45/55kw, 2 Steps





CNC Controller, Electrical cabinet

■ CNC Controller

CNC Fanuc 0i-T



CNC Fanuc 18i-T



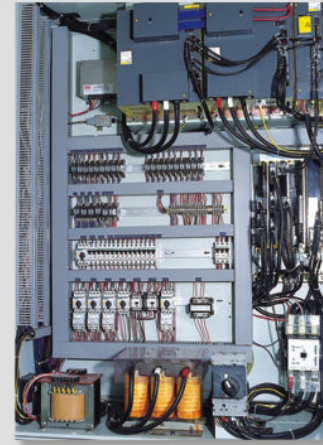
CNC Siemens 802D



CNC Siemens 840D



■ Electrical cabinet



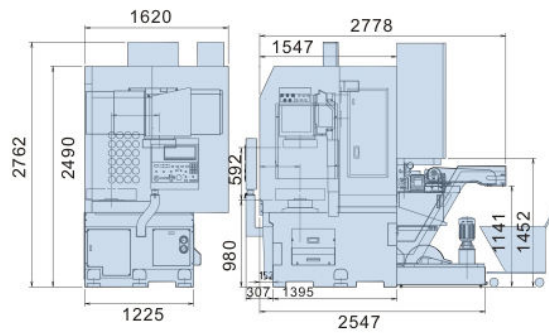
- Easy maintenance circuit arrangement.
- Suitable all kinds of environment.
- CE standard available.



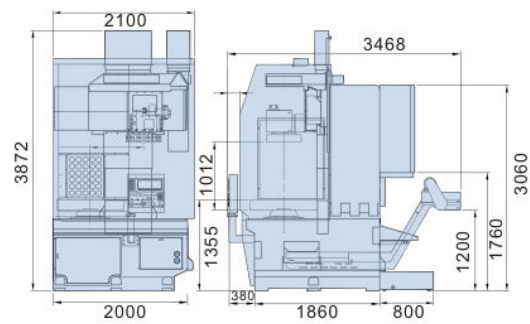
Machine dimensions

(Unit: mm)

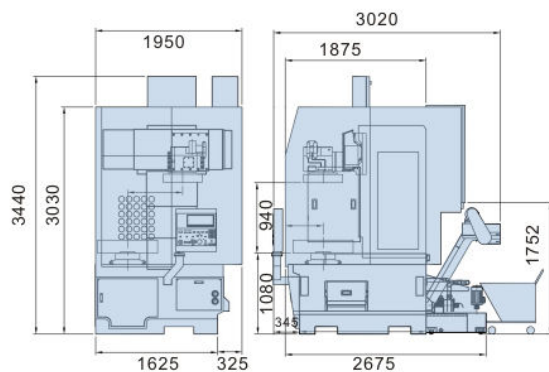
■ VL-46 Series



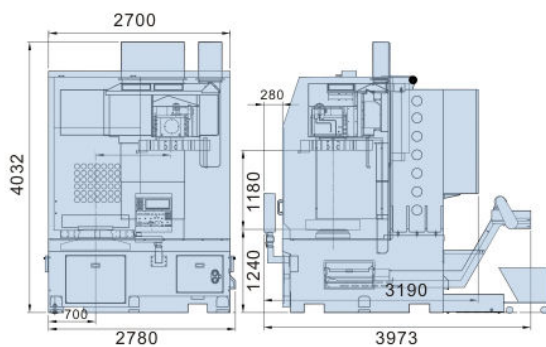
■ VL-86 Series



■ VL-66 Series



■ VL-100 Series



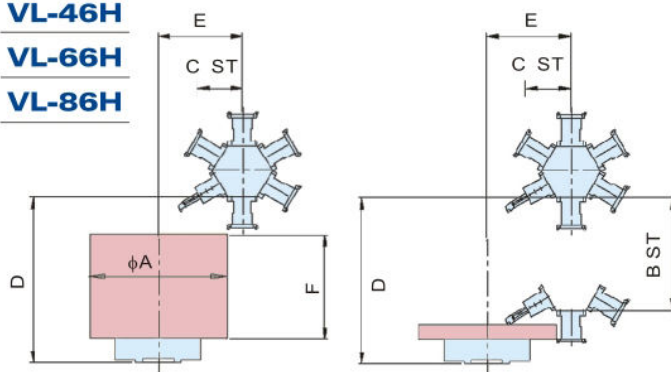


H Type (V6, Turret)

VL-46H

VL-66H

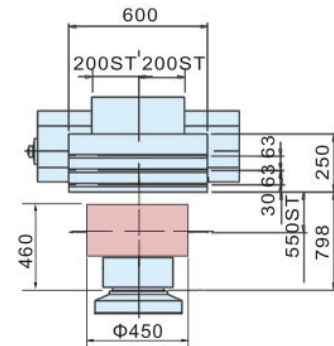
VL-86H



MODEL	A	B	C	D	E	F
VL-46H	460	550	320	845	310	450
VL-66H	760	700	600	1025	500	750
VL-86H	860	850	600	1260	550	850

G Type (G5, Gang Type)

VL-46G Series

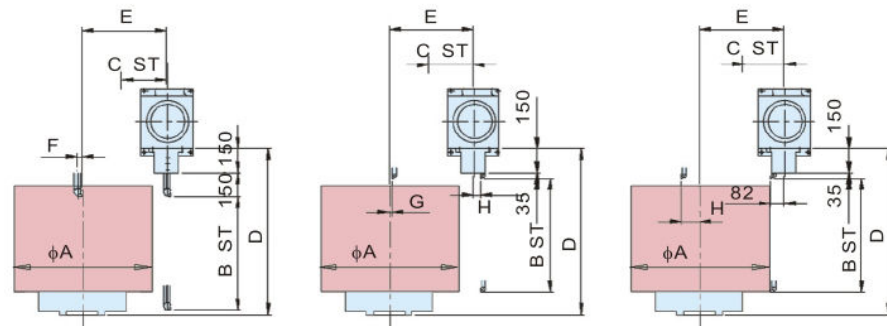


H Type (V4, Turret)

VL-46H

VL-66H

VL-86H



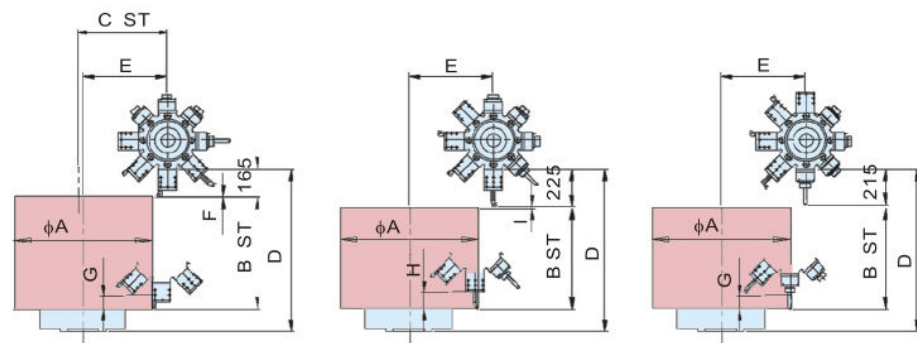
MODEL	A	B	C	D	E	F	G	H
VL-46H	450	550	320	845	330	10	13	82
VL-66H	760	700	550	1025	500	50	13	112
VL-86H	860	850	600	1260	550	50	-7	132

F Type (V8, Turret)

VL-46F

VL-66F

VL-86F

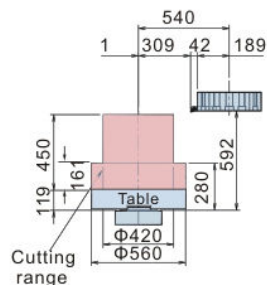


MODEL	A	B	C	D	E	F	G	H	I
VL-46H	450	550	330	800	310	5	80	100	15
VL-66H	740	700	550	1000	520	5	80	100	15
VL-86H	860	850	600	1150	550	5	80	100	15

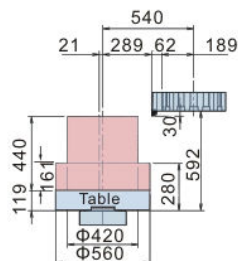
■ **A Type (H8, H12 Turret)**

VL-46A (H12)

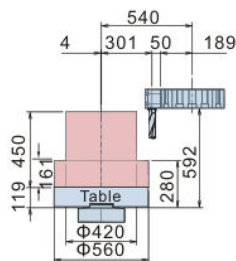
O.D Tool



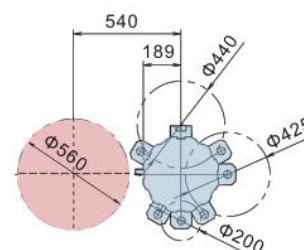
Face Tool



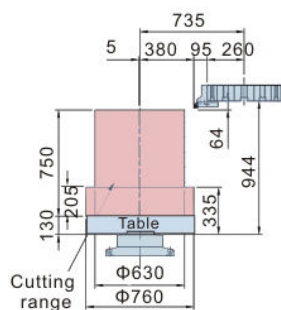
Boring Tool



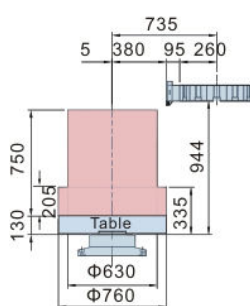
Tool Interference

**VL-66A (H12)**

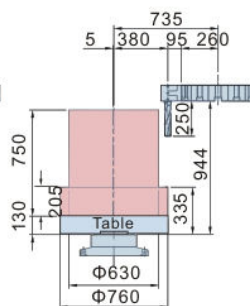
O.D Tool



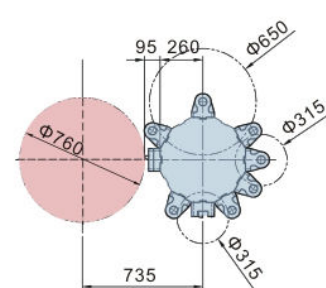
Face Tool



Boring Tool

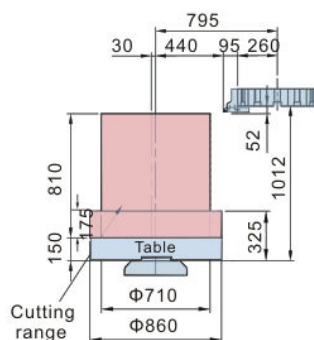


Tool Interference

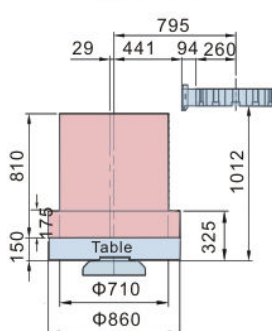


VL-86A (H12)

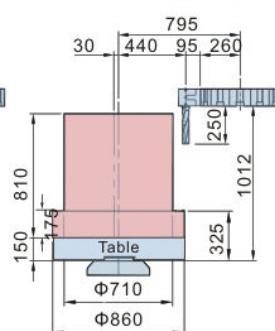
O.D Tool



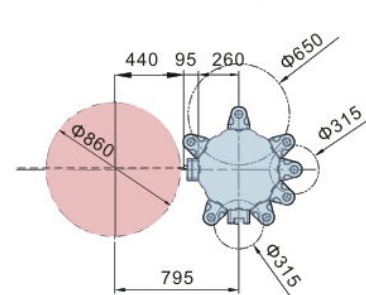
Face Tool



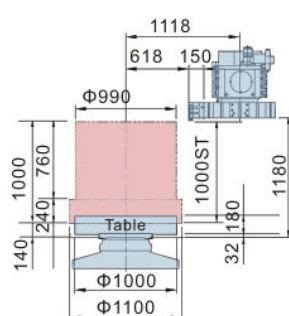
Boring Tool



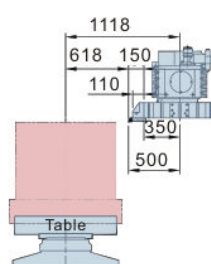
Tool Interference

**VL-100A(H12)**

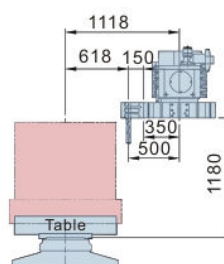
O.D Tool



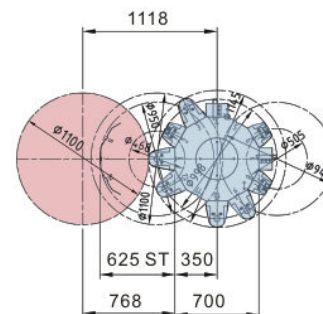
Face Tool



Boring Tool



Tool Interference





Machine specifications (High speed series)

Model / Description		Unit	VL-46A	VL-46AR	VL-46AT	VL-46G
Capacity	Max. swing diameter	mm	560			
	Max. turning diameter	mm	460			
	Standard turning diameter	mm	460			
	Max. turning height	mm	450			
Spindle	Hydraulic chuck	mm	305(12")			
	Range of table speed	rpm	25-2250			
	Front bearing diameter	mm	120			
	Nose of spindle		A2-8			
Tool turret	Type of turret		H12	H12	H12+H12	G5
	Number of tool position	pc	12	12	12+12	5
	Tool size	mm	□25,Φ40			
Feed	Rapid rate (X-Axis)	m/min	20			
	Rapid rate (Z-Axis)	m/min	20			
	Horizontal travel (X-Axis)	mm	275			-200+200
	Vertical travel (Z-Axis)	mm	460			550
	Cutting feed rate	mm/rev	0.001-500			
	Feed override	%	0-150			
CNC controller system			Fanuc 0i-T (Siemens 802D)			
Motors	Spindle motor (Cont./30min)	kw	AC αip40 (18.5/22)			
	Feed motor (X/Z axis)	kw	3.0/4.0			
	Live tool motor	kw				
Power requirement		kva	40		75	40
Machine size	Floor space (L x W)	mm	1700x3100		3400x3100	1700x3100
	Max. height	mm	2855		2855	2855
	Net weight	kg	6500		13000	6500

*The specifications are subject to change without notice.



Standard accessories (VL-46, VL-66, VL-86, VL-100)

- Complete splash guard.
- Hydraulic 3-jaw solid chuck & cylinder, size as spec.
- Hydraulic power unit.
- Hydraulic chuck soft jaw x 1 set.
- Automatic lubrication system.
- Heat exchanger for electrical cabinet.
- Protection door.
- Foot switch for hydraulic chuck.
- Work light.
- Warning light (R/Y/G)
- Workpiece counter (CNC Controller).
- Coolant through toolholder to inserts.
- Coolant system with tank, bed shower system.
- Service tool box & tool kits.
- Leveling bolts & seat pads.
- Chip conveyor. Hinge type.
- Chip trolley.
- Tool holder as turret numbers.
- Spindle orientation.
- Manual of operation & maintenance.
- Manual of electrical & hydraulic circuit diagram.
- Manual book for FANUC.

VL-46H	VL-46F	VL-46M	VL-46MT	VL-66A	VL-66AR	VL-66AT	VL-66H	VL-66F	VL-66M	VL-66MT
560		560		800			800		800	
460		460		760			760		760	
460		460		760			760		760	
450				750			750		750	
305 (12")				457 (18")			457 (18")			
25-2250				25-2000			25-1500	25-2000		
120				160			160			
A2-8				A2-11			A2-11			
V4/V6	V6	H12	H12+H12	H12		H12+H12	V4/V6	V8	H12	H12+H12
4/6	6	12	12+12	12		12+12	4/6	8	12	12+12
□25,Φ80	□25,Φ40			□32,Φ50			□25,Φ80	□25,Φ50		
20				20						
20				20						
320		275		385			550		385	
550				760			700		760	
0.001-500				0.001-500						
0-150				0-150						
Fanuc 0i-T (Siemens 802D)				Fanuc 0i-T (Siemens 802D)						
AC aip40 (18.5/22)				AC aip40 (18.5/22) (Option 30/37)						
3.0/4.0				4.0/4.0						
	AC 3.7/5.5							AC 3.7/5.5		
40	45		85	40		75	40	45		85
1700x3100			3400x3100	1950x3410		3900x3410	1950x3410			3900x3410
2855			2855	3450						
6500	6600		13200	11500		23000	11500	11600		23200



Optional accessories

- Hydraulic chuck & cylinder, size selections.
- High power motor, αip50(22/30kw), αi30(30/37kw), αi40(37/45kw).
- Air conditioner for electrical cabinet.
- Auto door (Automatic opening & closing of main door).
- Power transformer, external.
- Oil skimmer (Disk type).
- Oil mist collector.
- Counter display for each inserts (8 purchase).
- Double tooling device simultaneously.
- Tool presetter inside.
- Dual speed gear box for spindle motor.
- High & low pressure chucking.
- Chuck position sensor.
- Special tool holder.
- Hard jaw of chuck.
- High pressure coolant through turret.
- Chip conveyor, scraper type.
- CNC controller 18i-T series.
- Manual guide *i*.
- CE certificate.
- Tooling.
- Jig & fixture.
- Turnkey project.



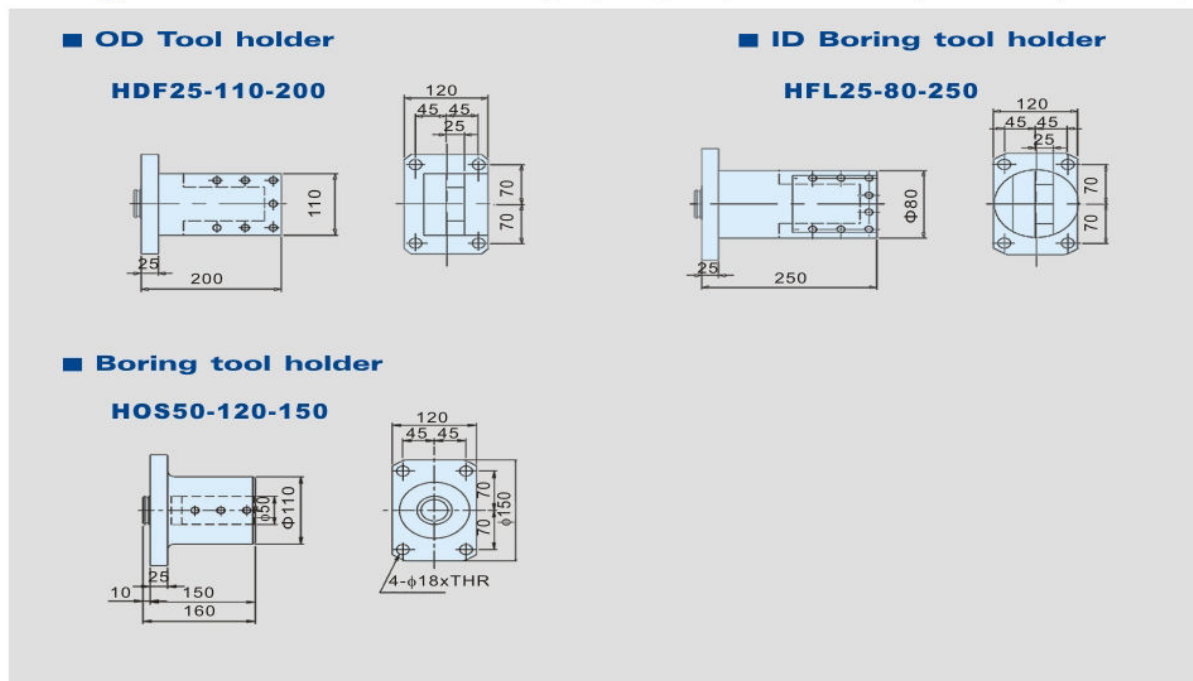
Specifications (High speed series)

Model / Description		Unit	VL-86A	VL-86AR	VL-86AT	VL-86H	VL-86F	VL-86M	VL-86MT
Capacity	Max. swing diameter	mm	1000			1000		1000	
	Max. turning diameter	mm	860			860		860	
	Standard turning diameter	mm	860			860		860	
	Max. turning height	mm	850			850		850	
Spindle	Hydraulic chuck	mm	533 (21")			533 (21")			
	Range of table speed	rpm	25-1500			25-1250	25-1500		
	Front bearing diameter	mm	200			200			
	Nose of spindle		A2-11 (Option A2-15)						
Tool turret	Type of turret		H12		H12+H12	V4/V6	V8	H12	H12+H12
	Number of tool position	pc	12		12+12	4/6	8	12	12+12
	Tool size	mm	□32,Φ50			□25,Φ80	□25,Φ40		
Feed	Rapid rate (X-Axis)	m/min	20						
	Rapid rate (Z-Axis)	m/min	20						
	Horizontal travel (X-Axis)	mm	470			600		470	
	Vertical travel (Z-Axis)	mm	860			850		860	
	Cutting feed rate	mm/rev	0.001-500						
	Feed override	%	0-150						
	CNC controller system		Fanuc 0i-T (Siemens 802D)						
Motors	Spindle motor (Cont./30min)	kw	AC aip40 (18.5/22) (Option 22/30)						
	Feed motor (X/Z axis)	kw	4.0/7.0						
	Live tool motor	kw					AC 3.7/5.5		
	Power requirement	kva	40		75	40	45		85
Machine size	Floor space (L x W)	mm	2100x3500		4200x3500	2100x3500			4200x3500
	Max. height	mm	3900						
	Net weight	kg	14500		29000	14600			29200

*The specifications are subject to change without notice.

■ H Type tool holder dimensions (V4, V6, V8, V10 Turret)

(Unit: mm)





Specifications (High speed series)

Model / Description		Unit	VL-100A
Capacity	Max. swing diameter	mm	1320
	Max. turning diameter	mm	1100
	Standard turning diameter	mm	1000
	Max. turning height	mm	1000
Spindle	Manual 3-jaw chuck	mm	1000(40")
	Range of table speed	rpm	5-850
	Front bearing diameter	mm	200
	Nose of spindle		ISO 702-4 No.15 (Ø380)
Tool turret	Type of turret		H12
	Number of tool position	pc	12
	Tool size	mm	□32, Ø50
Feed	Rapid rate (X-Axis)	m/min	20
	Rapid rate (Z-Axis)	m/min	20
	Horizontal travel (X-Axis)	mm	625
	Vertical travel (Z-Axis)	mm	1000
	Cutting feed rate	mm/rev	0.001-500
	Feed override	%	0-150
CNC controller system			Fanuc 0i-T (Siemens 802D)
Motors	Spindle motor (Cont./30min)	kw	AC ai40 (37/45) (Option 45/55)
	Feed motor (X/Z axis)	kw	4.0/7.0
	Live tool motor	kw	
Power requirement		kva	80
Machine size	Floor space (L x W)	mm	2700x4000
	Max. height	mm	4050
	Net weight	kg	21000

*The specifications are subject to change without notice.



A Type tooling system (for H8, H12 Turret)

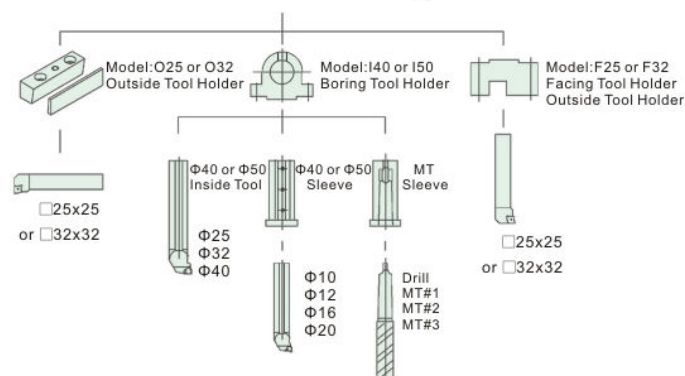
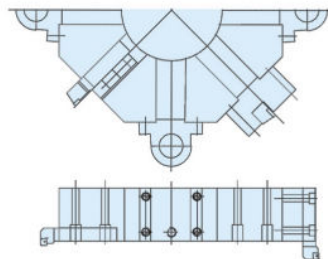
(Unit: mm)

VL-46A

VL-66A

VL-86A

VL-100A





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