



R/L & HR/HL Series

Linear Way Type | Boxway Type

YSP[®]

**High Speed
High Accuracy**

CNC High Speed
Vertical Lathe Series

The Power To Turning The World

CUTTING DIA.

● Ø 350

● Ø 450

● Ø 600

● Ø 750

● Ø 850

● Ø 1000

● Ø 1100



CE ISO 9001

Yu Shine Precision Machine Co.,Ltd

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SCAN QR CODE
Learn More

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R/L & HR/HL Series

Linear Way Type | Boxway Type

Company Profile

High Rigidity · High Accuracy · Customized

Yu Shine established in 1983 and started from producing varied customized & special purpose machines. We develop & provide our machine especially for all major manufacturers of Motorcycle, Automotive, Aerospace, Shipbuilding and Heavy Vehicles / Truck in Japan, USA and Europe.

Later in response to market demand, Yu Shine gradual transition to manufacturing of CNC vertical lathes. Based on our customized knowledge in Special Purpose Machines and design experiences accumulated from all walks of Industry Application into the company policy, Yu Shine becomes the first company provide Automotive Industry customers booting into a fully automated and semi-automated robotic arms production line. The jobs of high risk, high pollution, and high labor jobs carried out by robots.

Yu Shine has a wealth of technical experience in customized machine designs; improve working efficiency, Optimize the layout of production lines, tool selection and design of special cutter. ...etc. Yu Shine is continuous innovation and learning to provide the exclusive processing machines for many years in order to create the profit for customers and establish the win-win cooperation relationship with the clients.

Products which are made by Yu Shine all pass through CE(European qualified certification), ISO9001(International standardization organization). Our high precision, high rigidity and stable quality products are recognized and relied by worldwide customers, agents and mechanical industry. You can easily found our machines installed in China, Germany, Japan, Russia, Italy, United Kingdom, United States, France etc and spread 56 countries in 5 continents. Yu Shine participate several international exhibitions such as EMO Europe, Beijing China, Tokyo Japan, Chicago USA and Taipei Taiwan which gain high evaluation.

Production & Manufacturing

Why we choose VTL?

- ◆ **Quality Stability**
Standardization of production
- ◆ **Rapid Delivery**
Planned Inventory Production
- ◆ **Unique Machine to Meet Demand**
Customized Design Experience

- Gravity of work piece is evenly mounted on the table.
- The work piece can be chucked tightly with good machining accuracy.
- Few swing & better stability than horizontal lathe.
- Easy load / unload an heavy & irregular parts.

• Save your cost in designing Fixtures & jigs. • Ring with big diameter and small thickness can be processed as well.

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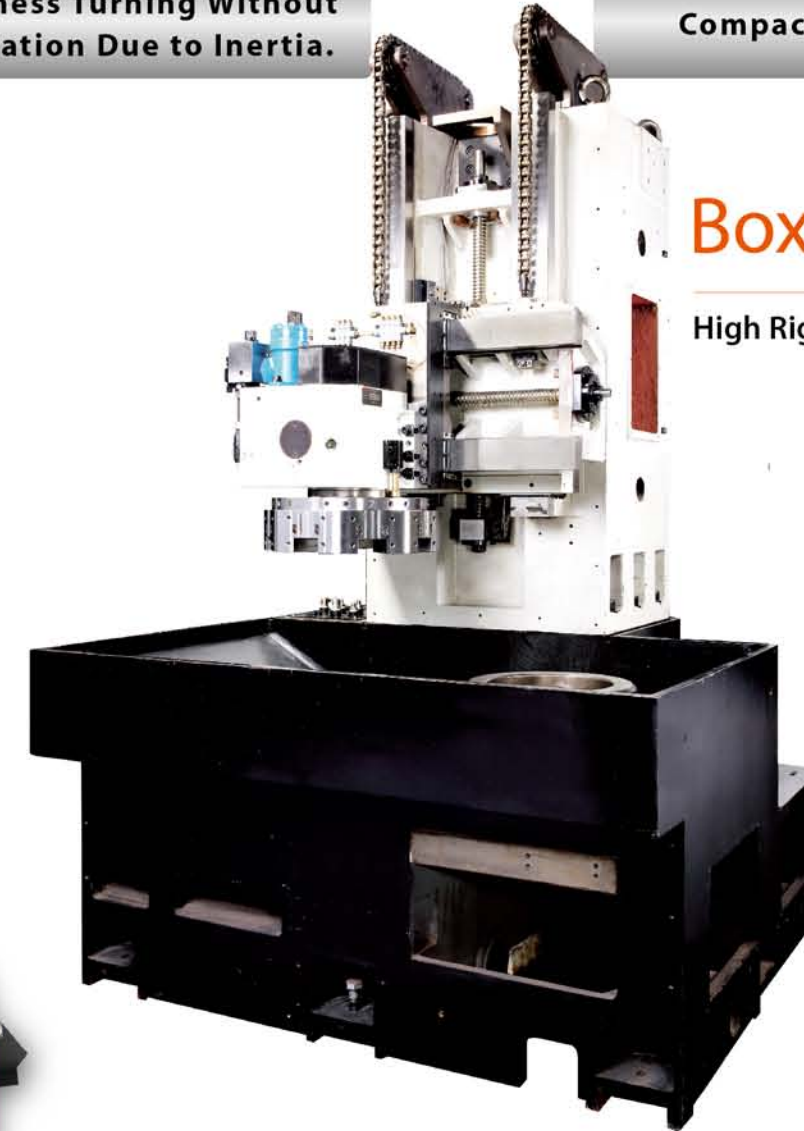
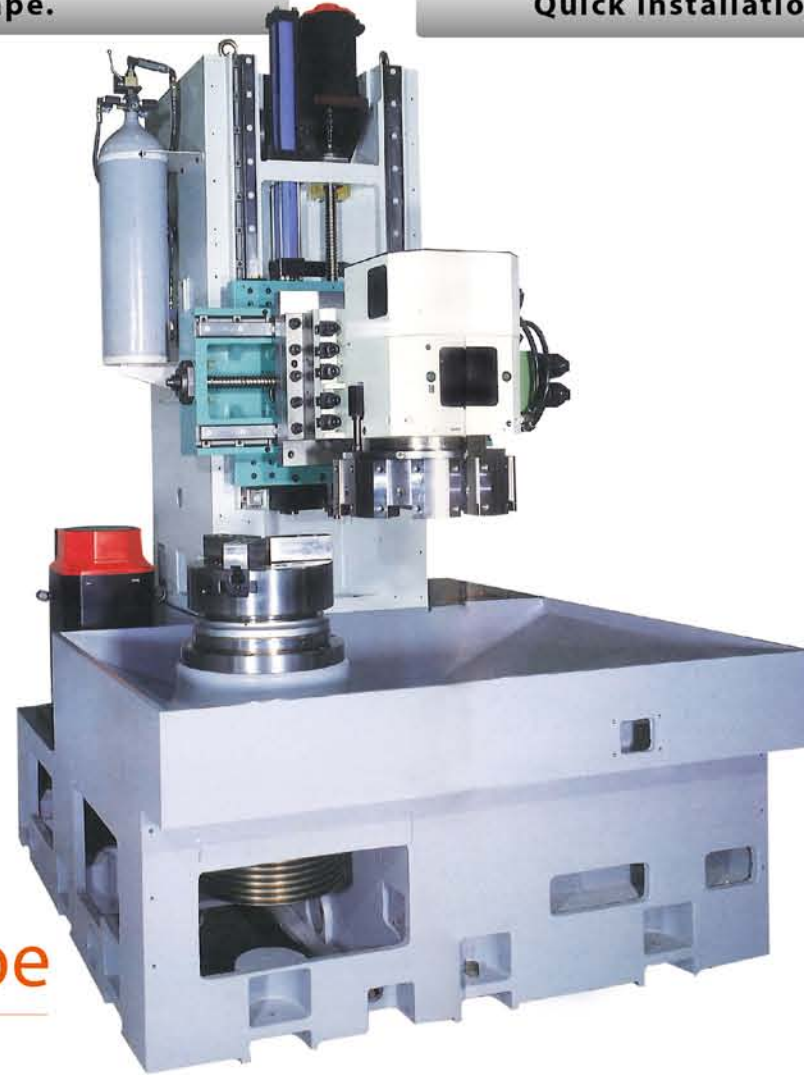
CNC High Speed Vertical Lathe Series

Suitable For Workpiece Of Large Size Heavy & Irregular Shape.

Easy Loading / Unloading Quick Installation.

Perfect Roundness Turning Without Accuracy Deviation Due to Inertia.

Compact Machine Size.



Boxway Type

High Rigidity & Heavy Cutting

Linear Way Type

High Speed & Accuracy

Professional • Efficiency

Body Casting / Meehanite

One Piece Molding In Meehanite Casting, It Is Long Life In Accuracy Maintain Under Heavy Cutting.



- Linear Way Type -
Air Accumulator For Auto Balancing & Speed Compensation.



High Rigidity Spindle With NN Series Bearing For Burden Heavy Loading From Radial And Axial.



Ball Screw Pre-Tension Offset Error Of Thermal Expansion.

R / L Series

Linear Way / High Speed / High Accuracy

HR / HL Series

Boxway / High Rigid / Heavy Cutting

VL	600	HR	+P	+C	+V6
Vertical Lathe	Max Turning Ø 350-1100mm	R: Linear Way & Control Box In Right Side L: Linear Way & Control Box In Left Side HR: Boxway & Control Box In Right Side HL: Boxway & Control Box In Left Side	Power Turret	Both Sides Cutting with Additional C-Axis	V6 Turret

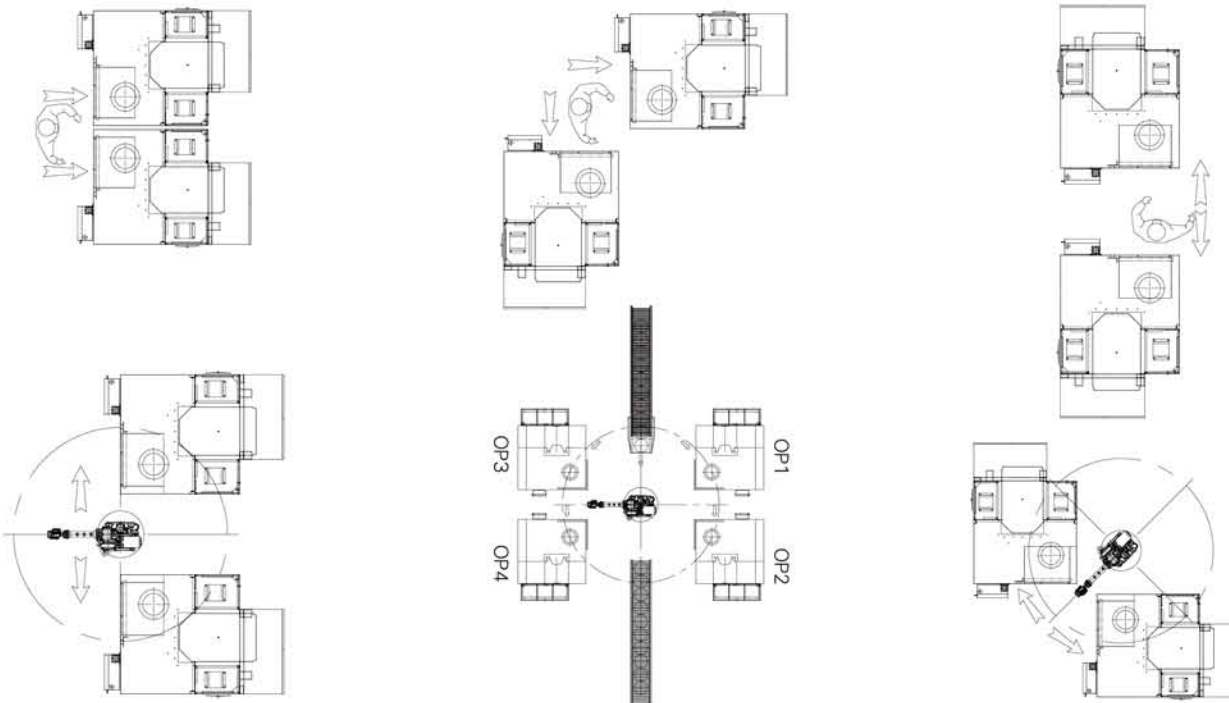


Twin Star Type



Single Type

Layout Space Save Space / Good For Aut Production Line Planning



A . Tool Pre-Setter

Instant tooling measuring.



B . Probing System for Workpiece

Saving operating time.



C . Linear Scale

Resolution 0.001mm.



D . Vertical 6 Station Turret

Specific application with less interference.



E . Power Turret

RPM of Live Tooling up to 5,000/6,000 RPM with high Torque, perform function of grinding, side drilling, tapping & milling.



F . Servo Control Turret

Turret powered by motor drive, time of tool changing 0.1 second only with Index Accuracy ±2 arc-seconds.



G . 2 Steps Gear Box

Low speed, high torque.



H . Oilmist Collector



I . Full Open Side Door

Good for large size componts and auto loading.



J . Siemens CNC Unit



K . Electric Crane



L . Air-Conditioner

For electric box.



M . Special Toolings

Customize Service

Professional x Technical Service

Team of Yu Shine has accumulated experience for years in customization and fixture design.

Special Chucks & Fixures



Special Design for High Production Efficiency



Automation

Help Customers reach full automatic production line, and planing complete production lines and peripheral devices.
Save labor cost and reduce human fatigue for 24HR per day.

VL-750R & VL-750L

Auto Line of Motor Shell



VL-600R & VL-600L+C

Auto Line of Brake Disc



Linear Way



SPECIFICATIONS

Machine Capacity	VL-450R/L	VL-450R/L+P
Max. Swing Diameter	Ø 550	Ø 550
Max. Cutting Diameter	Ø 450	Ø 450
Max. Cutting Height	450	450
Spindle		
Spindle Nose	A2-8	A2-8
Spindle Speed	50~2500	50~2500
Power Tool Spindle Speed	N/A	6000
Spindle Bearing I.D.	Ø 110	Ø 110
Turret		
Turret Type	Horizontal	VDI 40
Number Of Tools	8	8
Tool Size	<input type="checkbox"/> 25, Ø 40	<input type="checkbox"/> 25, Ø 40

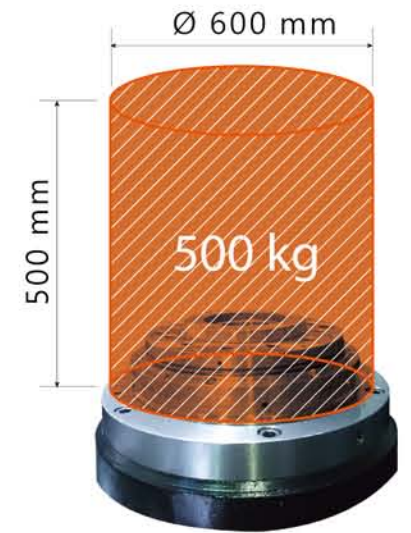
Electric Motor Of Vehicle



Housing Of Turbo Compressor



Linear Way / Boxway



SPECIFICATIONS

Machine Capacity	VL-600R/L	VL-600R/L+P	VL-600HR/HL	VL-600HR/HL+P
Max. Swing Diameter	Ø 650	Ø 650	Ø 650	Ø 650
Max. Cutting Diameter	Ø 600	Ø 600	Ø 600	Ø 600
Max. Cutting Height	500	500	500	500
Spindle				
Spindle Nose	A2-8	A2-8	A2-8	A2-8
Spindle Speed	50~2250	50~2250	50~2250	50~2250
Power Tool Spindle Speed	N/A	5000	N/A	5000
Spindle Bearing I.D.	Ø 130	Ø 130	Ø 130	Ø 130
Turret				
Turret Type	Horizontal	VDI 40	Horizontal	VDI 40
Number Of Tools	8/12(Opt.)	12	8/12(Opt.)	12
Tool Size	<input type="checkbox"/> 32, Ø 50	<input type="checkbox"/> 25, Ø 40	<input type="checkbox"/> 32, Ø 50	<input type="checkbox"/> 25, Ø 40

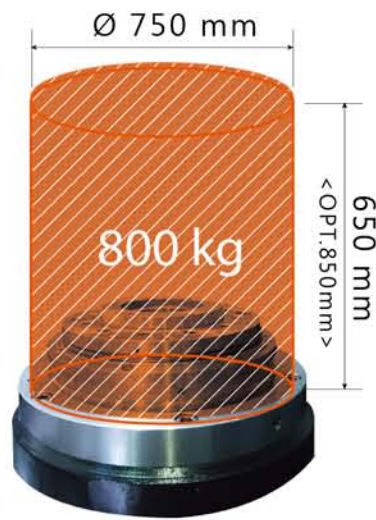
Housing Of Differential Gear



Brake Component



Linear Way / Boxway



Brake Drum



SPECIFICATIONS

Machine Capacity	VL-750R/L	VL-750R/L+P	VL-750R/L+V6	VL-750HR/HL	VL-750HR/HL+P	VL-750HR/HL+V6
Max. Swing Diameter	Ø 780	Ø 780	Ø 780	Ø 780	Ø 780	Ø 780
Max. Cutting Diameter	Ø 750	Ø 750	Ø 750	Ø 750	Ø 750	Ø 750
Max. Cutting Height	650 / 850 (Opt.)	650 / 850 (Opt.)	650 / 850 (Opt.)	650 / 850 (Opt.)	650 / 850 (Opt.)	650 / 850 (Opt.)

Spindle

Spindle Nose	A2-11	A2-11	A2-11	A2-11	A2-11	A2-11
Spindle Speed	50~2000	50~2000	50~2000	50~2000	50~2000	50~2000
Power Tool Spindle Speed	N/A	5000	N/A	N/A	5000	N/A
Spindle Bearing I.D.	Ø 170	Ø 170	Ø 170	Ø 170	Ø 170	Ø 170

Turret

Turret Type	Horizontal	VDI 50	Vertical	Horizontal	VDI 50	Vertical
Number Of Tools	8/10, 12 (Opt.)	12	6	8/10, 12 (Opt.)	12	6
Tool Size	□32, Ø 50	□32 x 25, Ø 50	□32, Ø 50	□32, Ø 50	□32 x 25, Ø 50	□32, Ø 50



Aluminium Alloy Wheel



Linear Way / Boxway



Railway Wheel



SPECIFICATIONS

Machine Capacity	VL-850R/L	VL-850R/L+P	VL-850R/L+V6	VL-850HR/HL	VL-850HR/HL+P	VL-850HR/HL+V6
Max. Swing Diameter	Ø 1000	Ø 1000	Ø 1000	Ø 1000	Ø 1000	Ø 1000
Max. Cutting Diameter	Ø 850	Ø 850	Ø 850	Ø 850	Ø 850	Ø 850
Max. Cutting Height	750 / 950 (Opt.)	750 / 950 (Opt.)	750 / 950 (Opt.)	750 / 950 (Opt.)	750 / 950 (Opt.)	750 / 950 (Opt.)

Spindle

Spindle Nose	A2-11	A2-11	A2-11	A2-11	A2-11	A2-11
Spindle Speed	20~1500	20~1500	20~1500	20~1500	20~1500	20~1500
Power Tool Spindle Speed	N/A	5000	N/A	N/A	5000	N/A
Spindle Bearing I.D.	Ø 220	Ø 220	Ø 220	Ø 220	Ø 220	Ø 220

Turret

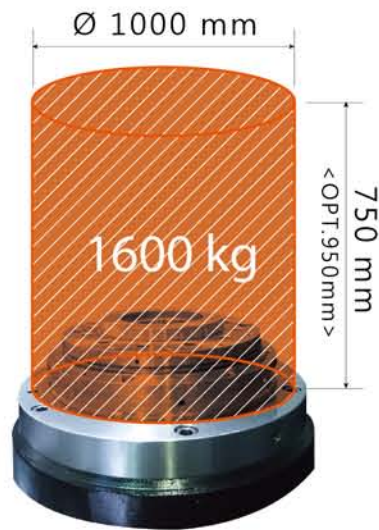
Turret Type	Horizontal	VDI 50	Vertical	Horizontal	VDI 50	Vertical
Number Of Tools	8/10, 12 (Opt.)	12	6	8/10, 12 (Opt.)	12	6
Tool Size	□32, Ø 50	□32 x 25, Ø 50	□32, Ø 50	□32, Ø 50	□32 x 25, Ø 50	□32, Ø 50



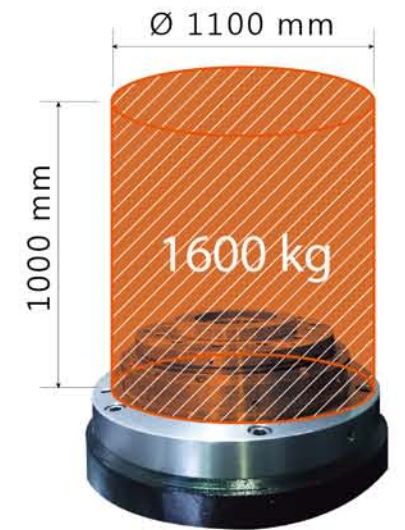
Pulley Of Elevator



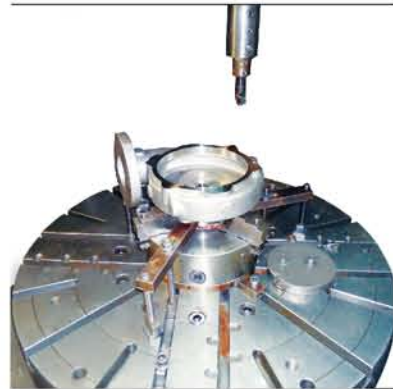
Boxway



Boxway



Housing Of Turbo



Gear



SPECIFICATIONS

Machine Capacity	VL-1000HR/HL	VL-1000HR/HL+P	VL-1000HR/HL+V6
Max. Swing Diameter	Ø 1200	Ø 1200	Ø 1200
Max. Cutting Diameter	Ø 1000	Ø 1000	Ø 1000
Max. Cutting Hight	750 / 950 (Opt.)	750 / 950 (Opt.)	750 / 950 (Opt.)

Spindle	VL-1000HR/HL	VL-1000HR/HL+P	VL-1000HR/HL+V6
Spindle Nose	A2-15	A2-15	A2-15
Spindle Speed	20~1200	20~1200	20~1200
Power Tool Spindle Speed	N/A	5000	N/A
Spindle Bearing I.D.	Ø 220	Ø 220	Ø 220

Turret	VL-1000HR/HL	VL-1000HR/HL+P	VL-1000HR/HL+V6
Turret Type	Horizontal	VDI 50	Vertical
Number Of Tools	12	12	6
Tool Size	<input type="checkbox"/> 32, Ø 50	<input type="checkbox"/> 32 x 25, Ø 50	<input type="checkbox"/> 32, Ø 50

SPECIFICATIONS

Machine Capacity	VL-1100HR/HL	VL-1100HR/HL+P
Max. Swing Diameter	Ø 1250	Ø 1250
Max. Cutting Diameter	Ø 1100	Ø 1100
Max. Cutting Hight	1000	1000

Spindle	VL-1100HR/HL	VL-1100HR/HL+P
Spindle Nose	A2-15	A2-15
Spindle Speed	20~600	20~600
Power Tool Spindle Speed	N/A	3500
Spindle Bearing I.D.	Ø 220	Ø 220

Turret	VL-1100HR/HL	VL-1100HR/HL+P
Turret Type	Horizontal	VDI 60
Number Of Tools	12	12
Tool Size	<input type="checkbox"/> 32, Ø 60	<input type="checkbox"/> 32, Ø 60

Component Of Piping

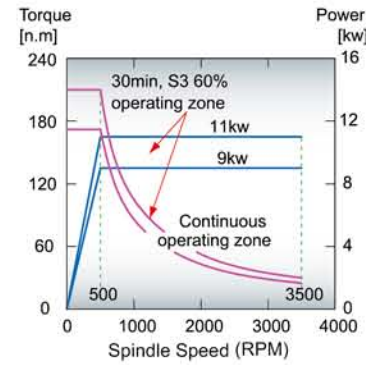


Component Of Energy Plant



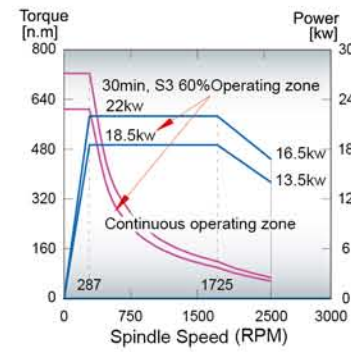
Main Spindle Output Performance Chart

VL-350 Series



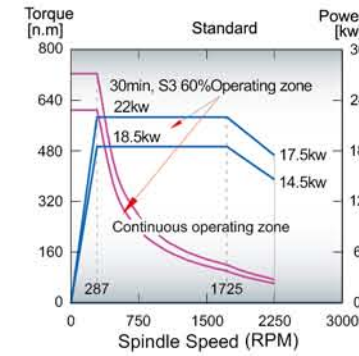
- Fanuc- α 18 / 6000ip
- 9 / 11 kw (12 / 15 hp)
- 50~3500 rpm/min

VL-450 Series

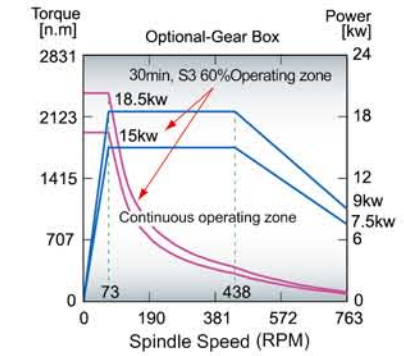


- Fanuc- α 40 / 6000ip
- 18.5 / 22 kw (25 / 30 hp)
- 25~2250 rpm/min

VL-600 Series

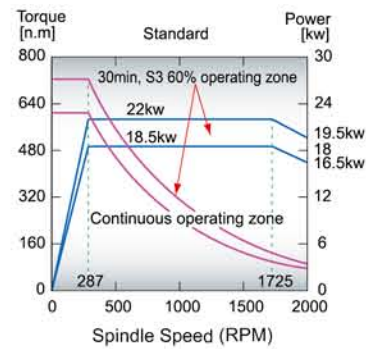


- Fanuc- α 40 / 6000ip
- 18.5 / 22 kw (25 / 30 hp)
- 25~2250 rpm/min

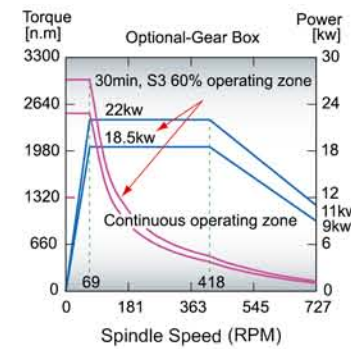


- Fanuc- α 30 / 6000ip + Gear Box (1/5.5)
- 15 / 18.5 kw (20 / 25 hp)
- 50~763 rpm/min

VL-750 Series

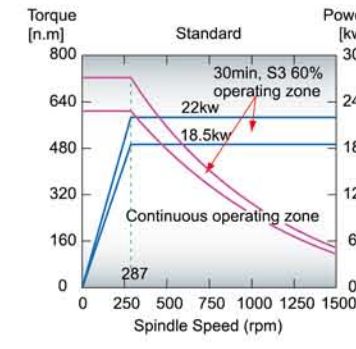


- Fanuc- α 40 / 6000ip
- 18.5 / 22 kw (25 / 30 hp)
- 20~2000 rpm/min

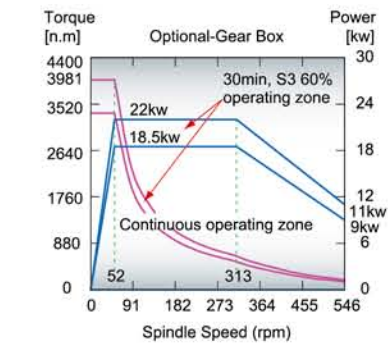


- Fanuc- α 40 / 6000ip + Gear Box (1/5.5)
- 18.5 / 22 kw (25 / 30 hp)
- 20~727 rpm/min

VL-850 Series

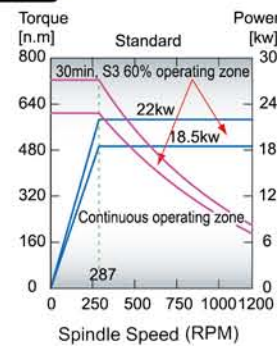


- Fanuc- α 40 / 6000ip
- 18.5 / 22 kw (25 / 30 hp)
- 20~1500 rpm/min

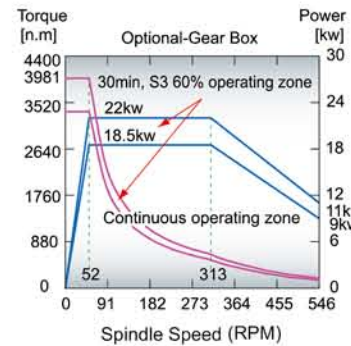


- Fanuc- α 40 / 6000ip + Gear Box (1/5.5)
- 18.5 / 22 kw (25 / 30 hp)
- 20~546 rpm/min

VL-1000 Series

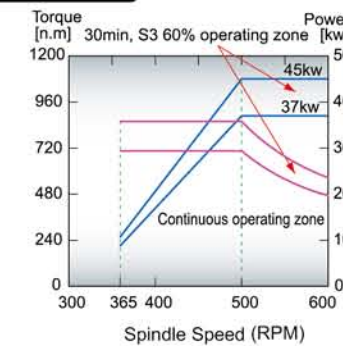


- Fanuc- α 40 / 6000ip
- 18.5 / 22 kw (25 / 30 hp)
- 547~1200 rpm/min

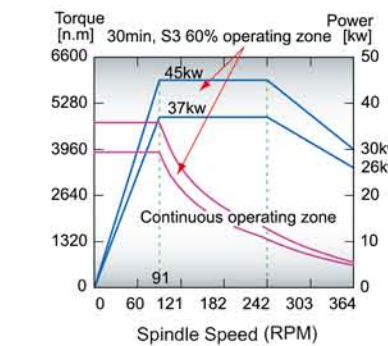


- Fanuc- α 40 / 6000ip + Gear Box (1/5.5)
- 18.5 / 22 kw (25 / 30 hp)
- 20~546 rpm/min

VL-1100 Series Standard-Gear Box



- Fanuc- α 40 / 6000i + Gear Box (1/1)
- 37 / 45 kw (50 / 60 hp)
- 365~600 rpm/min

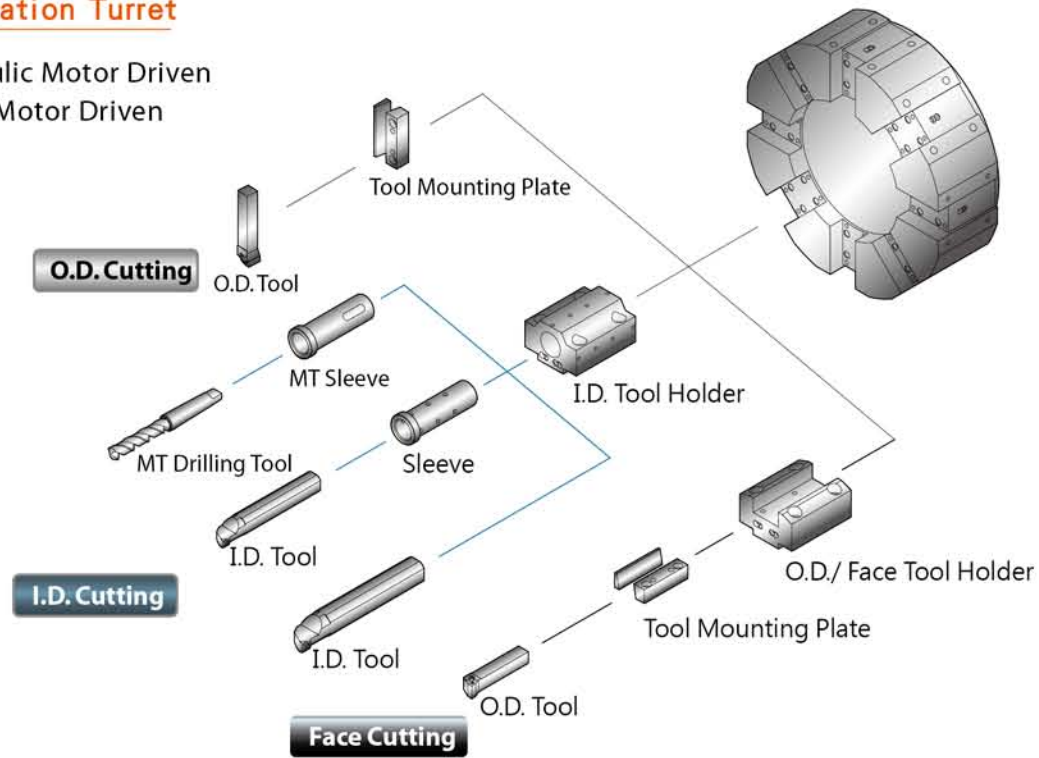


- Fanuc- α 40 / 6000i + Gear Box (1/5.5)
- 37 / 45 kw (50 / 60 hp)
- 10~364 rpm/min

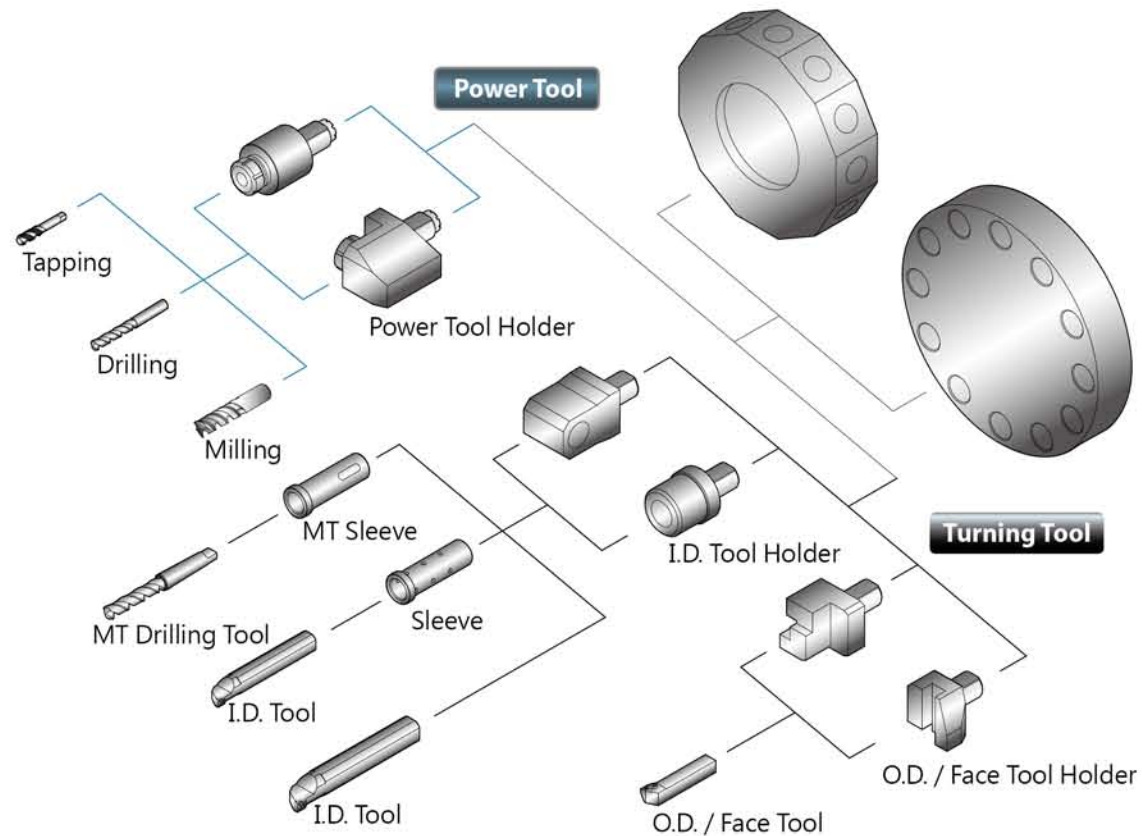
Tooling System

8 / 10 / 12 Station Turret

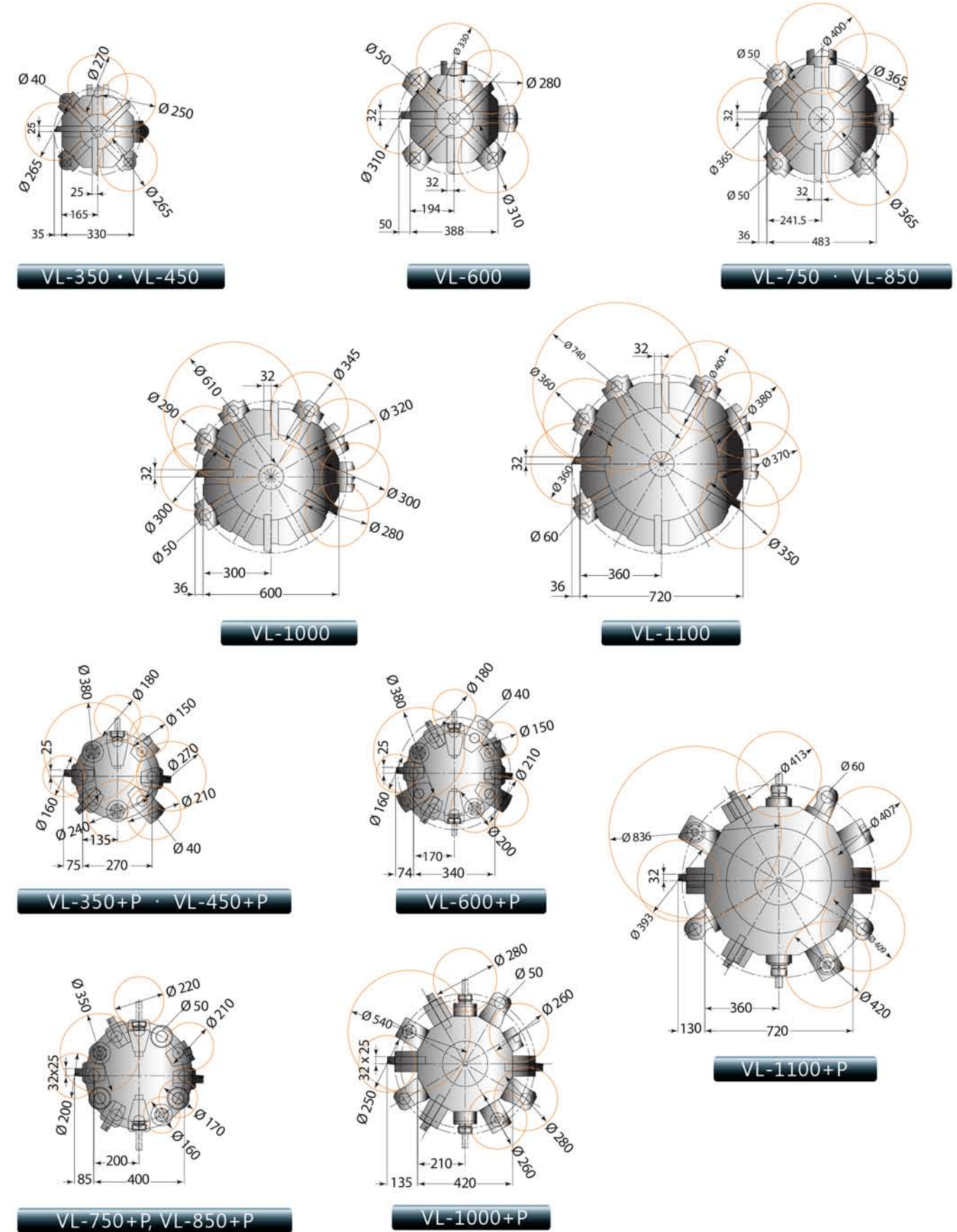
STD | Hydraulic Motor Driven
OPT | Servo Motor Driven



V.D.I Power Tool Turret

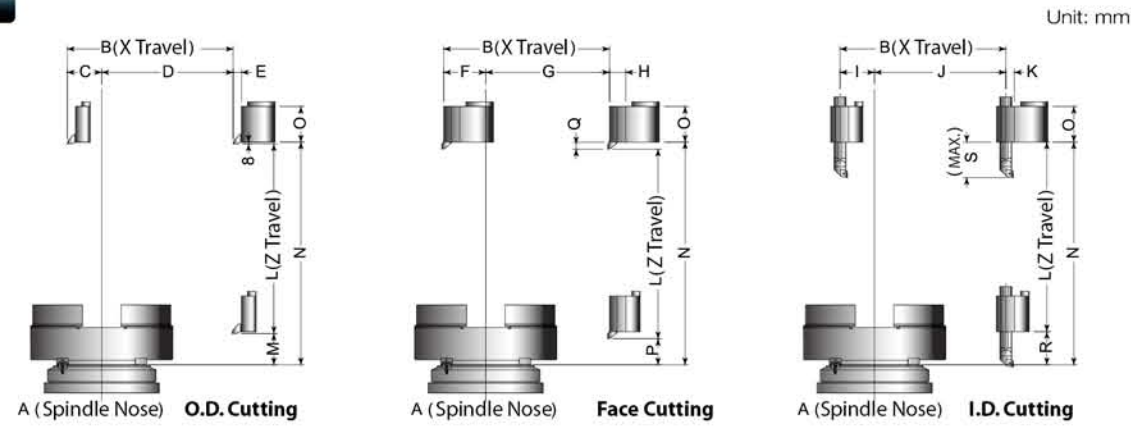


Tooling Interference



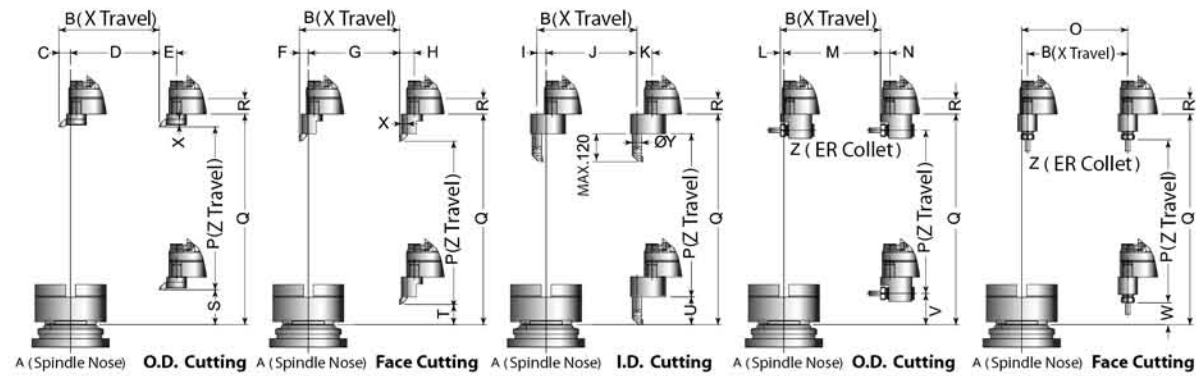
Axis Travel Diagram

R Series



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
VL-350R	A2-6	250	40	210	35	55	195	50	40	210	35	400	133	540	90	110	30	140	120
VL-450R	A2-8	300	40	260	35	55	245	50	40	260	35	450	133	590	90	110	30	140	120
VL-600R/HR	A2-8	350	35	310	35	60	290	60	50	300	50	500	153	660	95	130	30	160	150
VL-750R/HR	A2-11	500	42	458	35	75	425	68	43	457	36	800	213	1021	150	191	30	221	150
VL-850R/HR	A2-11	550	87	463	35	120	430	68	88	462	36	800	132	940	150	110	30	140	150
VL-1000HR	A2-15	700	145	555	35	177	522	68	146	554	36	800	132	940	150	110	30	140	150
VL-1100HR	A2-15	700	25	670	35	58	642	68	34	666	44	1000	197	1205	150	175	30	205	180

Power Turret Type

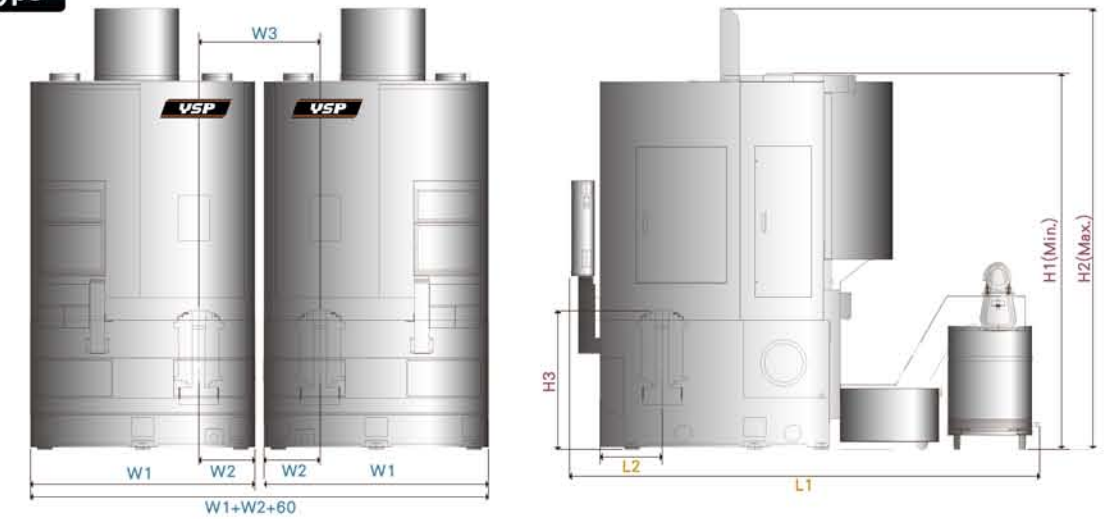


	A	B	C	D	E	F	G	H	I	J	K	L	M
VL-350R+P	A2-6	250	50	201	74	39	212	63	40	210	65	15	235
VL-450R+P	A2-8	300	50	251	74	39	262	63	40	260	65	15	285
VL-600R/HR+P	A2-8	350	49	301	74	39	311	63	40	310	65	15	335
VL-750R/HR+P	A2-11	500	92	408	85	65	435	58	7	493	0	48	452
VL-850R/HR+P	A2-11	550	120	430	85	93	457	58	35	515	0	76	474
VL-1000HR+P	A2-15	700	120	580	85	93	607	58	35	665	0	76	624
VL-1100HR+P	A2-15	700	100	600	130	116	584	146	80	620	110	73	627

	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
VL-350R+P	40	275	400	604	66	149	87	119	134	94	25	40	ER32
VL-450R+P	40	325	450	654	66	149	87	119	134	94	25	40	ER32
VL-600R/HR+P	40	375	500	704	66	149	87	119	134	94	25	40	ER32
VL-750R/HR+P	41	493	800	1074	82	211	139	179	189	150	25	50	ER40
VL-850R/HR+P	41	515	800	1007	82	144	72	112	122	83	25	50	ER40
VL-1000HR+P	41	665	800	1007	82	144	72	112	122	83	25	50	ER40
VL-1100HR+P	103	645	1000	1210	125	158	127	210	272	130	32	60	ER50

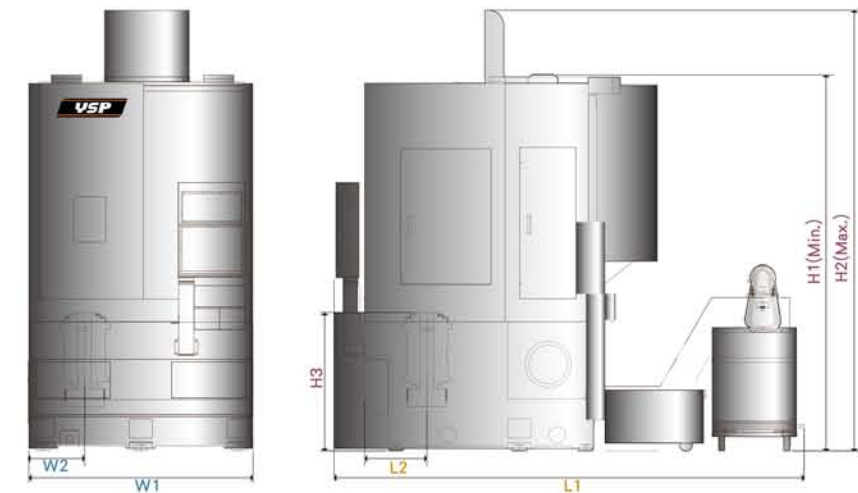
Machine Dimensions

Twin Star Type



	L1	L2	W1	W2	W3	H1	H2	H3
VL-600HL/R	3100	410	1660	525	800	2600	3090	1020
VL-750HL/R	3400	500	1780	425	910	3130	3870	1120
VL-850HL/R	4285	600	2300	535	1130	3256	4020	1226

Single Type



	L1	L2	W1	W2	H1	H2	H3
VL-350R	2900	310	1500	270	2250	2700	950
VL-450R	3000	360	1510	320	2350	2800	970
VL-600R/HR	3100	410	1660	525	2600	3090	1020
VL-750R/HR	3400	500	1780	425	3130	3870	1120
VL-850R/HR	4285	600	2300	535	3256	4020	1226
VL-1000HR	4285	750	2900	735	3256	4020	1226
VL-1100HR	4500	726	2520	700	3725	4605	1322

STANDARD

AXIS CONTROL

1. Max. Control Feed Axes	4 Axes
2. Max. Control Spindle Axes	2 Axes
3. Axis Synchronous Control	STD
4. Increment System	IS-A, IS-B
5. Increment System C	0.0001 mm 0.0001 deg 0.00001 inch
6. HRV 3 Control	STD
7. Inch / Metric Conversion	STD
8. Interlock	STD
9. Machine Lock	STD
10. Emergency Stop	STD
11. Overtravel	STD
12. Mirror Image	STD
13. Follow Up	STD

OPERATION

1. Automatic Operation (Memory)	STD
2. MDI Operation	STD
3. DNC Operation	STD
4. DNC Operation with Memory Card (CF Card and Card Attachment is Required)	STD
5. Schedule Function	STD
6. Sequence Number Search	STD
7. Sequence Number Comparison and Stop	STD
8. Program Restart	STD
9. Manual Intervention and Return	STD
10. Wrong Operation Prevention	STD
11. Buffer Register	STD
12. Dry Run	STD
13. Single Block	STD
14. Jog Feed	STD
15. Manual Reference Position Return	STD
16. Manual Handle Feed Rate	×1, ×10, ×100

ACCURACY COMPENSATION FUNCTION

1. Backlash Compensation	STD
2. Backlash Compensation for Each Rapid Traverse and Cutting feed	STD
3. Smooth Backlash Compensation	STD
4. Smart Backlash Compensation	STD

INTERPOLATION FUNCTIONS

1. Nano Interpolation	STD
2. Exat Stop Mode	G61
3. Tapping Mode	G63
4. Cutting Mode	G64
5. Exat Stop	G09
6. Linear Interpolation	STD
7. Circular Interpolation	STD
8. Dwell	Dwell in Seconds and dwell in revolution
9. Polar Coordinate Interpolation	STD
10. Cylindrical Interpolation	STD
11. Thread Cutting, Synchronous Cutting	STD
12. Multi Threading	STD
13. Thread Cutting Retract	STD
14. Continuous Threading	STD
15. Variable Lead Thread Cutting	STD
16. Polygon Turning	STD
17. Polygon Machining With Two Spindles	STD
18. Skip	G31
19. Multi-Step Skip	STD
20. High-Speed Skip	STD
21. Torque Limit Skip	STD
22. Reference Position Return	G28
23. Reference Position Return Check	G27
24. 2nd Reference Position Return	STD
25. 3rd/4th Reference Position Return	STD

FEED FUNCTION

1. Rapid Traverse Override F0、25、50、100%	
2. Feed per Minute	G98
3. Feed per Revolution	G99
4. Tangential Speed Constant Control	STD
5. Cutting Feedrate Clamp	STD
6. Automatic Acceleration/Deceleration	STD
7. Linear Acceleration / Deceleration After Cutting feed Interpolation	STD
8. Bell-Type Acceleration / Deceleration After Cutting Feed Interpolation	STD
9. Feedrate Override	0~150%
10. Override Cancel	STD

PROGRAM INPUT

1. Program Code	EIA / ISO
2. Label Skip	STD
3. Parity Check (Horizontal and Vertical Parity)	STD
4. Control In/Out	STD
5. Optional Block Skip	9
6. Max. Programmable Dimension	±9 Digit
7. Program File Name	32 Characters
8. Sequence Number	N8 Digit
9. Absolute / Incremental Programming	STD
10. Decimal Point Programming / Pocket Calculator Type Decimal Point Programming	STD
11. Input Unit 10 time Multiply	STD
12. Diameter/Radius Programming	STD
13. Plane Selection	G17、G18、G19
14. Rotary Axis Designation	STD
15. Rotary Axis Roll-Over	STD
16. Coordinate System Setting	STD
17. Automatic Coordinate System Setting	STD
18. Workpiece Coordinate System	G52~G59
19. Workpiece Coordinate System Preset	STD
20. Direct Input of Workpiece Origin Offset Value Measured	STD
21. Manual Absolute On and Off	STD
22. Direct Drawing Dimension Programming	STD
23. G Code System	A/B/C
24. Chamfering / Corner R	STD
25. Programmable Data Input	G10
26. Programmable Parameter Input	STD
27. Sub Program Call	10 Folds Nested
28. Custom Macro	STD
29. Addition of Custom Macro Common Variables	#100~#199 #500~#999
30. Canned Cycle	STD
31. Multiple Repetitive Cycle	STD
32. Multiple repetitive Cycle II (Pocket Profile)	STD
33. Canned Cycles for Drilling	STD
34. Circular Interpolation by R Programming	R,I,J,K 12 Digit
35. Coordinate System Rotation	STD
36. Pattern Data Input	STD
37. Conversational Programming with Graphic Function	STD

AUXILIARY / SPINDLE SPEED FUNCTION

1. Constant Surface Speed Control	STD
2. Spindle Override	50~120%
3. Actual Spindle Speed Output	STD
4. Spindle Orientation	STD
5. Spindle Output Switching Function	STD
6. Spindle Positioning	STD
7. Ragid Tapping	STD
8. M Code Function	M2 Digit
9. S Code Function	S5 Digit
10. T Code Function	T4 Digit

TOOL FUNCTION / TOOL COMPENSATION

1. Tool Function	T7+1/T6+2/T5+3
2. Tool Offset Pairs	128
3. Tool Radius / Tool Nose Radius Compensation	STD
4. Tool Geometry / Wear Compensation	STD
5. Tool Offset Value Counter Input	STD
6. Automatic Tool Offset	STD
7. Direct Input of Tool Offset Value Measured	STD
8. Direct Input of Tool Offset Value Measured B	STD
9. Tool Life Management	STD
10. Extended Tool Life Management	STD

EDITING OPERATION

1. Part Program Storage Size	1Mbyte
2. Number of Registerable Programs	800
3. Part Program Editing	STD
4. Extended Part Program Editing	STD
5. Program Protect	STD
6. Password Function	STD
7. Background Editing	STD
8. High Speed Program Management	STD

SETTING AND DISPLAY

1. Status Display	STD
2. Clock Function	STD
3. Current Position Display	STD

SETTING AND DISPLAY

4. Program Comment Display	Program Name 31 Characters
5. Parameter Setting and Display	STD
6. Parameter Check Sum Function	STD
7. Alarm Display	STD
8. Alarm History Display	STD
9. Run Hour and Parts Count Display	STD
10. Actual Cutting Feedrate Display	STD
11. Display of Spindle Speed and T Code at All Screens	STD
12. Operation Monitor Screen	STD
13. Maintenance Information Screen	STD
14. Trouble Diagnosis	STD
15. Multi - Language Display	25 Kinds
16. Data Protection Key	STD
17. Erase CRT Screen Display	Manual or Automatic
18. Parameter Setting Support Screen	STD
19. Help Function	STD
20. Self - Diagnosis Function	STD
21. Periodic Maintenance Screen	STD
22. Servo Information Screen	STD
23. Spindle Information Screen	STD
24. Graphic Display	STD

DATA INPUT / OUTPUT

1. Memory Card Input / Output	STD
2. Interface	RS-232
3. External Workpiece Number	9999
4. Automatic Data Backup	STD

INTERFACE FUNCTION

1. Ethernet	STD
2. Enhanced Embedded Ethernet Function	STD

OPTIONAL

1. Manual Guide Function	
2. Part Program Storage Size	2 Mbyte

