

封底

封面

YSP[®]

CNC Vertical Lathe Series

The Power To Turn The World



Yu Shine Precision Machine Co.,Ltd

No. 538, Xiucai Rd, Yangmei District, Taoyuan City, 32651

Tel +886 -3-288-8899 • Fax +886-3-288-8866 • Email inquiry@ysp.tw

www.yspcnc.com

CUTTING DIA.

Ø 750

Ø 900

Ø 1150

www.yspcnc.com

Yu Shine Precision Machine Co.,Ltd

封面裡

封底裡

Company Profile

High Rigidity · High Accuracy · Customized

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

React to market demand, YSP gradually transfers as CNC vertical lathe manufacturer. Based on customized knowledge and experience in various industries which made YSP became the first Taiwan manufacturer who provides customer full automatic or semi-automatic robot production line in 1989 and turns the high risk, high pollution and high labor jobs to carry by robots.

YSP has a wealth of technical experience to offer customer complete solutions like customized design machines, improving work efficiency, optimizing production line layout, tooling selection, and design special tool holders...etc.

YSP has kept innovating and learning year by year to supply a machine that fulfills the customer requirement and creates profit for the customer, in order to establish win-win cooperation.

Products supplied by YSP has passed CE(European qualified certification), ISO9001(International standardization organization).

Our high precision, high rigidity, and stable quality products are reliable and recognized by worldwide customers and distributors. YSP has references over 56 countries in Germany, Japan, Russia, Italy, the United Kingdom, France, United State...etc. We also participate in major international machine tool exhibitions like Emo, CCMT, JIMTOF, IMTS, and TIMTOS which gain high evolution.

Production & Manufacturing

Why we choose VTL?

◆ Quality Stability

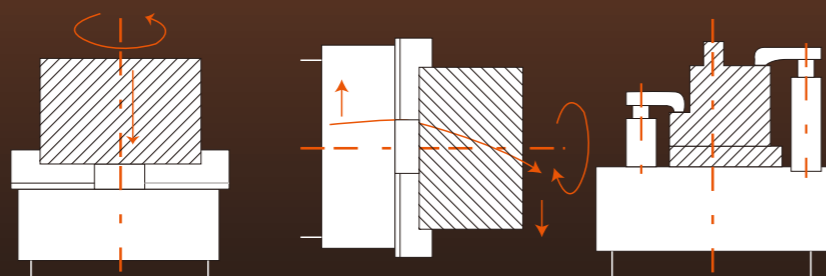
Standardization of production

◆ 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.



VL Series

Ø1000 . Ø1200 . Ø1600 . Ø2000
Ø2500 . Ø3000 . Ø4000

VLF Series

Ø1000 . Ø1200 . Ø1600



VLT Series

Ø1200 . Ø1600 . Ø2000



2VL Series

Ø2000 . Ø2500 . Ø3000



Double Spindle
& Turning Lathe
HL-12LR+AL



Turning & Grinding
Machine For Disc



Tapping/
Drilling Center

VLGT	750	HR/HL	+P
Gear Transmission Turret Type	Max Turning Ø750~1150mm	HR: Boxway & Control Box In Right Side HL: Boxway & Control Box In Left Side	Power Turret

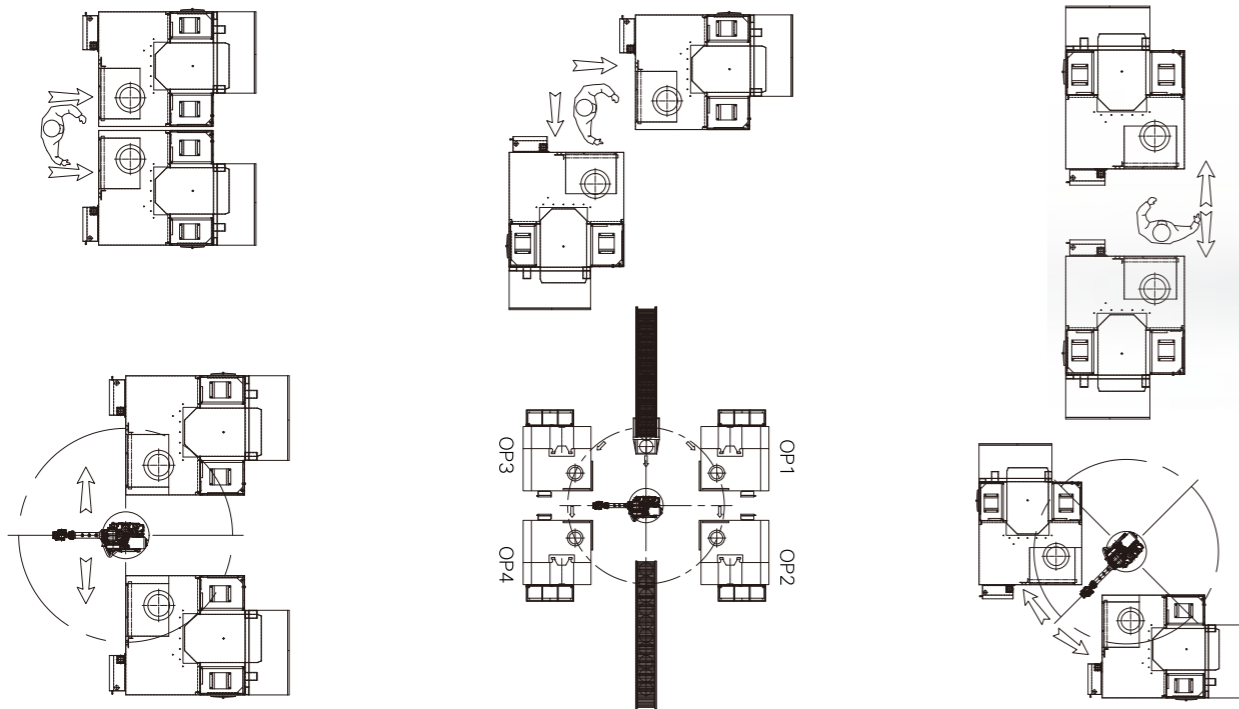


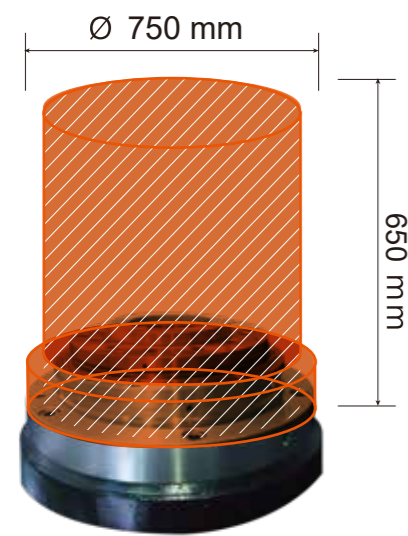
Twin Star Type



Single Type

Layout Space Save Space / Good For Aut Production Line Planning





SPECIFICATIONS

Machine Capacity	VLGT-750R	VLGT-750R+P
Max. Swing Diameter	Ø 900	Ø 900
Max. Cutting Diameter	Ø 750	Ø 750
Max. Cutting Height	650	650

Spindle	VLGT-750R	VLGT-750R+P
Spindle Nose	Ø 380	Ø 380
Spindle Speed	5~1100	5~1100
Power Tool Spindle Speed	N/A	4000
Spindle Bearing I.D.	Ø 200	Ø 200

Turret	VLGT-750R	VLGT-750R+P
Turret Type	Horizontal	VDI 50/BMT75
Number Of Tools	8/10/12	12
Tool Size	□32 x 25, Ø 50	□32 x 25, Ø 50

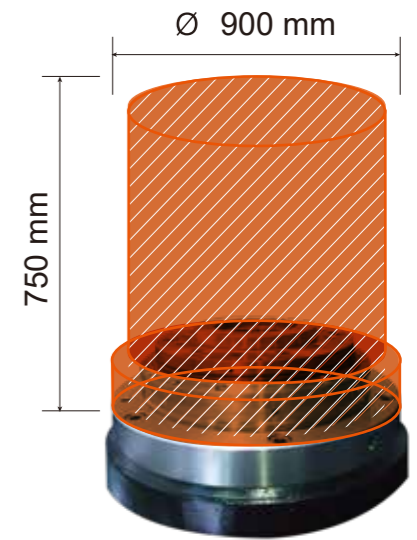


SPECIFICATIONS

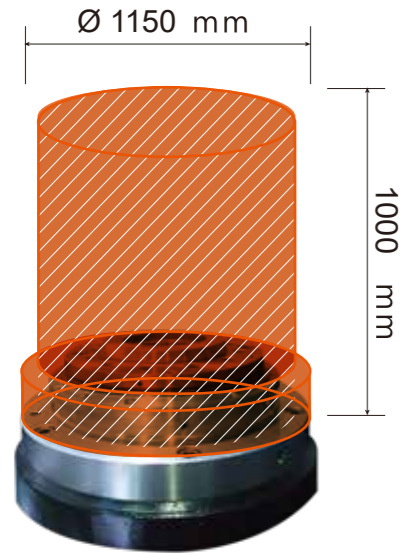
Machine Capacity	VLGT-900R	VLGT-900R+P
Max. Swing Diameter	Ø 1050	Ø 1050
Max. Cutting Diameter	Ø 900	Ø 900
Max. Cutting Height	900	900

Spindle	VLGT-900R	VLGT-900R+P
Spindle Nose	Ø 380	Ø 380
Spindle Speed	5 ~ 900	5 ~ 900
Power Tool Spindle Speed	N/A	4000
Spindle Bearing I.D.	Ø 260	Ø 260

Turret	VLGT-900R	VLGT-900R+P
Turret Type	Horizontal	VDI50/BMT75
Number Of Tools	8/10/12	12
Tool Size	□32x25, Ø 50	□32x25, Ø 50



Boxway



SPECIFICATIONS

	VLGT-1150HR	VLGT-1150HR+P
Machine Capacity		
Max. Swing Diameter	Ø 1250	Ø 1250
Max. Cutting Diameter	Ø 1150	Ø 1150
Max. Cutting Height	1000	1000
Spindle		
Spindle Nose	Ø 520	Ø 520
Spindle Speed	5~ 600	5~ 600
Power Tool Spindle Speed	N/A	3000
Spindle Bearing I.D.	Ø 325	Ø 325
Turret		
Turret Type	Horizontal	BMT85
Number Of Tools	12	12
Tool Size	□32, Ø 60	□32, Ø 60

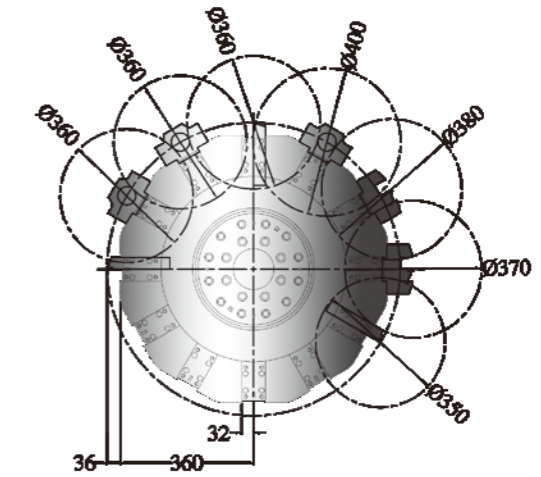
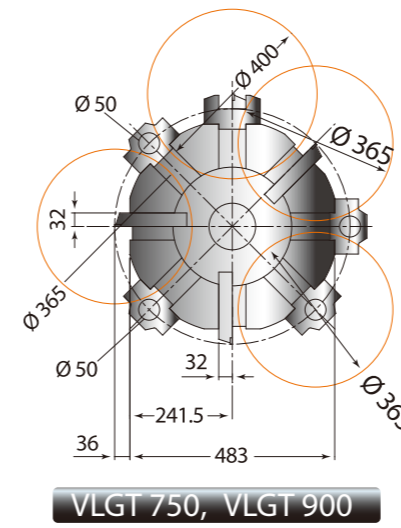
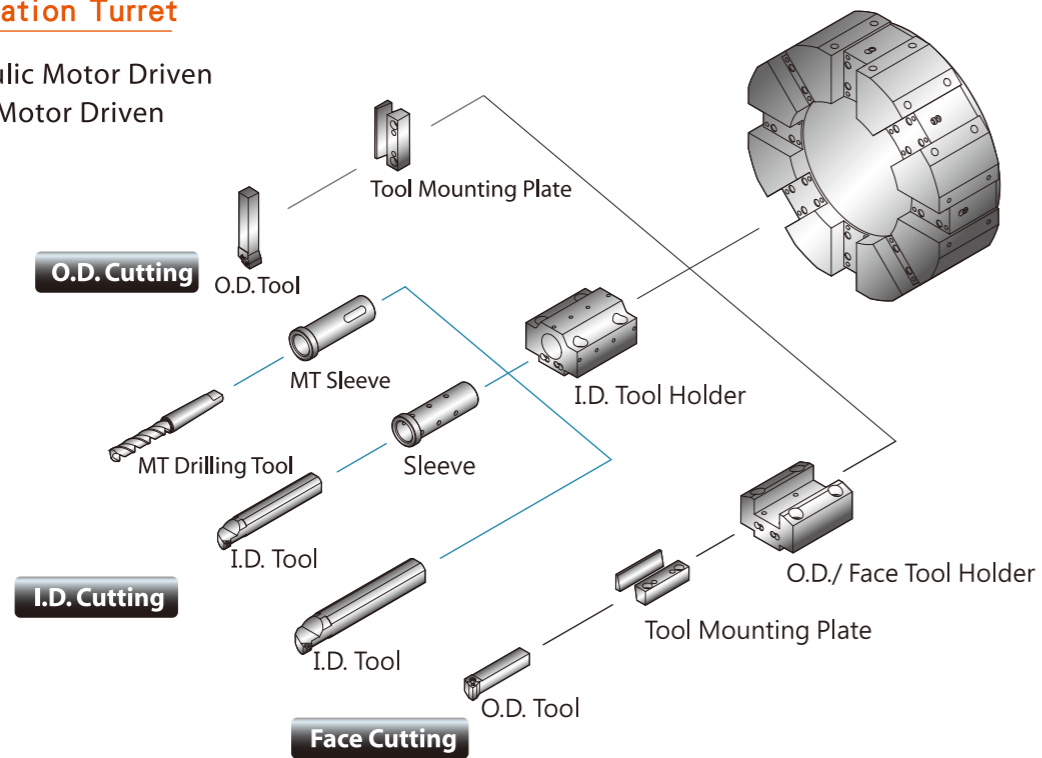


(Opt.) = Optional N/A = Not Available * Specifications are subject to change without notice in advance.

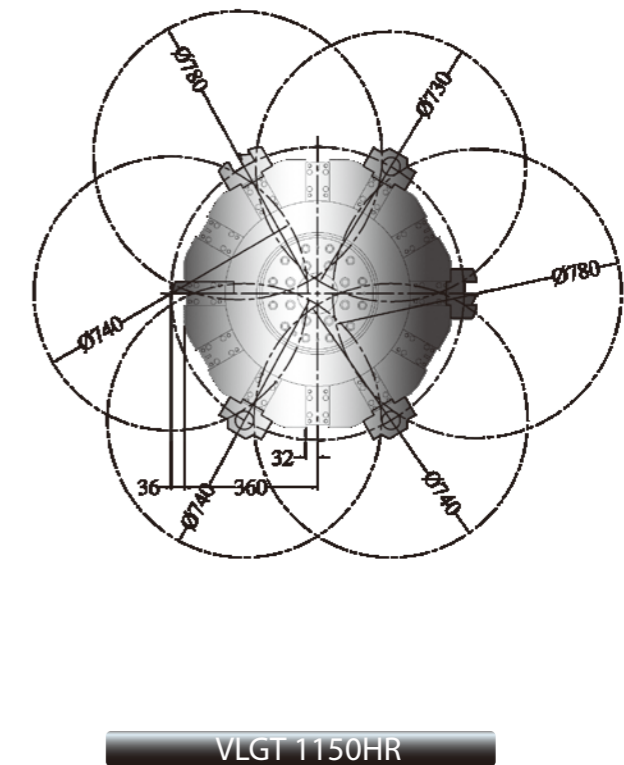
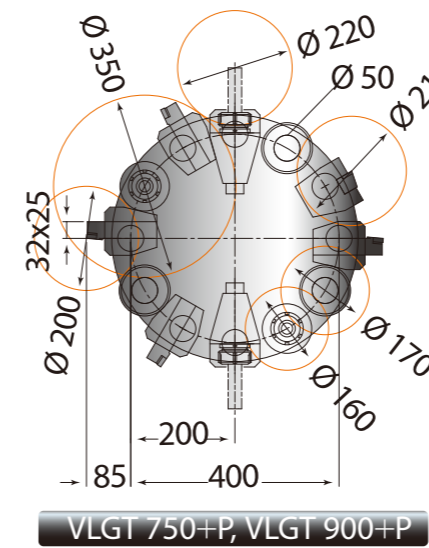
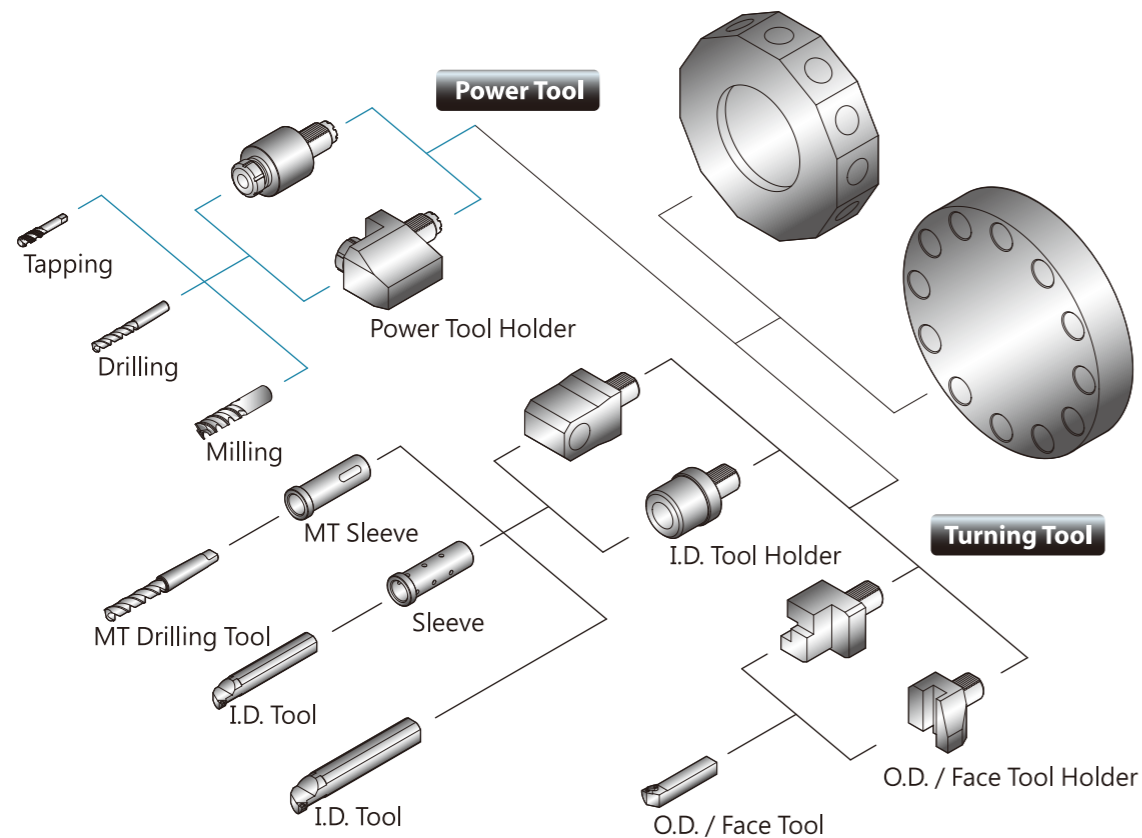
		LINEARWAY SERIES				BOXWAY SERIES	
Unit		VLGT-750R	VLGT-750R+P	VLGT-900R	VLGT-900R+P	VLGT-1150HR	VLGT-1150HR+P
CAPACITY							
Max. Swing Dia.	mm	Ø 900	Ø 900	Ø 1050	Ø 1050	Ø 1250	Ø 1250
Max. Cutting Dia.	mm	Ø 750	Ø 750	Ø 900	Ø 900	Ø 1150	Ø 1150
Max. Cutting Height	mm	650	650	750	750	1000	1000
SPINDLE							
Spindle Nose		Ø 380	Ø 380	Ø 380	Ø 380	Ø 520	Ø 520
Spindle Speed	rpm	5~1100	5~1100	5 ~ 900	5 ~ 900	5~ 600	5 ~ 600
Max. Load on Table	kg	1500	1500	2000	2000	3000	3000
Max. Torque	Nm	4492	4492	7776	7776	9438	9438
Max.#2 Spindle Speed	mm	Ø 200	Ø 200	Ø 260	Ø 260	Ø 325	Ø 325
Spindle Bearing I.D.	rpm	N/A	4000	N/A	4000	N/A	3000
TURRET							
Turret Type		Horizontal	VDI50/BMT75	Horizontal	VDI50/BMT75	Horizontal	BMT85
Number of Tools	pcs	8/10/12	12	8/10/12	12	12	12
Tool Size	mm	□32, Ø 50	□32, Ø 50	□32, Ø 50	□32, Ø 50	□32, Ø 60	□32, Ø 60
TRAVEL/FEEDRATE							
X Axis Travel	mm	480	480	550	550	700	700
Z Axis Travel	mm	650	650	800	800	1000	1000
X Axis Rapid Feedrate/m/min		20	20	20	20	10	10
Z Axis Rapid Feedrate/m/min		20	20	20	20	10	10
MOTOR							
Spindle Motor	kw	18.5 / 22	18.5 / 22	18.5 / 22	18.5 / 22	37/45	37/45
#2 Spindle Motor	kw	N/A	7.5 / 11	N/A	7.5 / 11	N/A	7.5 / 11
X Axis Servo Motor	kw	3.0	3.0	7.0	7.0	7.0	7.0
Z Axis Servo Motor	kw	4.0	4.0	7.0	7.0	7.0	7.0
Hydraulic Motor	kw	2.2	2.2	2.2	2.2	2.2	2.2
Conveyor Motor	kw	0.2	0.2	0.2	0.2	0.2	0.2
Coolant Pump	kw	0.75 + 0.75 + 1.1	0.75 + 0.75 + 1.1	0.75 + 0.75 + 1.1	0.75 + 0.75 + 1.1	1.1 + 0.75+0.75	1.1 + 0.75+0.75
OTHER							
3-Jaw Power Chuck	inch	18"	18"	21"	21"	40"	40"
Tool Holder	pcs	6	N/A	6	N/A	8	8
Tool Collet	pcs	4	N/A	4	N/A	5	5
MACHINE BODY							
Machine(LxW)	mm	4000x2600	4000x2600	4070x2700	4070x2700	4300x3000	4300x3000
Machine(H)	mm	3870	3870	4130	4130	4750	4750
Machine Weight	kg	10500	11000	15000	16000	19000	19000
Power Requirement	kva	40	50	40	50	75	80

8 / 10 / 12 Station Turret

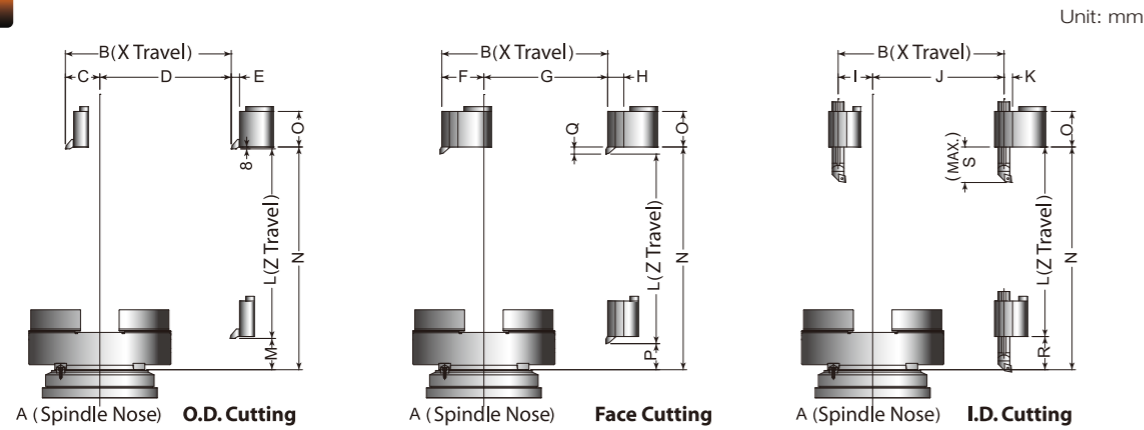
STD | Hydraulic Motor Driven
OPT | Servo Motor Driven



V.D.I Power Tool Turret

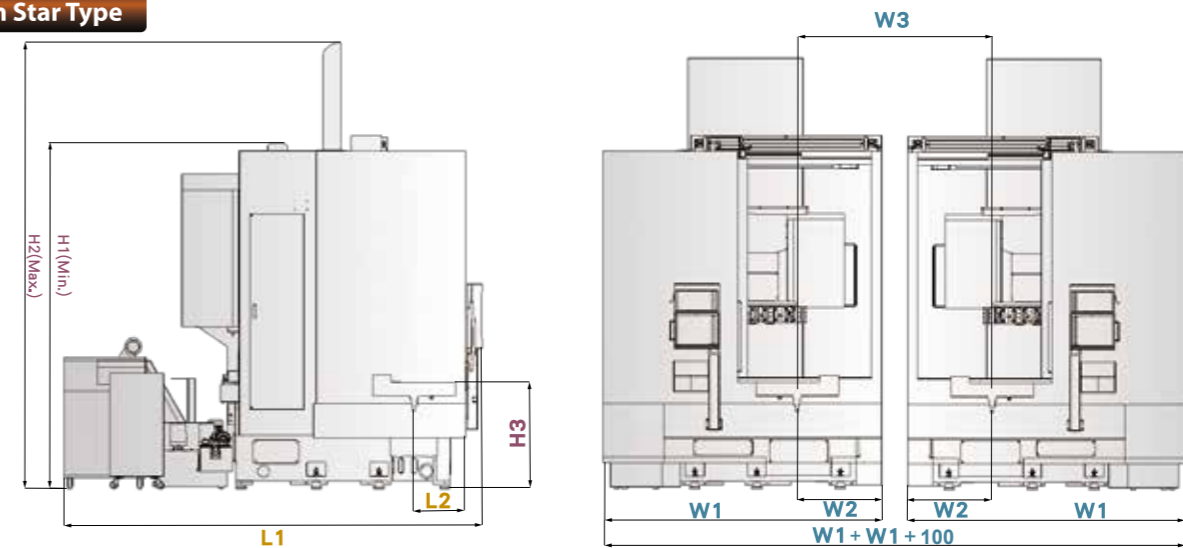


R Series



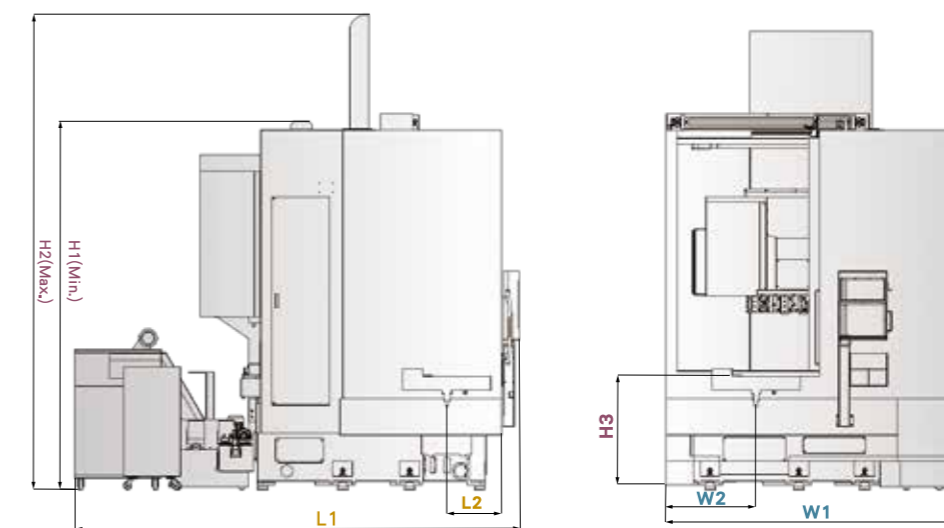
	A	B	C	D	E	F	G	H	I	J
VLGT -750R	Ø 380	495	130	375	120	93	412	83	10	495
VLGT -900R	Ø 380	546	39	511	35	72	478	68	40	510
VLGT -1150HR	Ø 520	700	25	675	35	58	642	68	34	666
	K	L	M	N	O	P	Q	R	S	
VLGT -750R	34	650	145	988	230	108	45	152	150	
VLGT -900R	38	800	116	924	150	94	30	124	150	
VLGT -1150HR	44	1000	225	1233	150	203	30	233	180	

Twin Star Type



	L1	L2	W1	W2	W3	H1	H2	H3
VLGT -750R	3800	500	2500	800	1600	3130	3870	1120
VLGT -900R	4070	500	2700	820	1640	3230	4130	1034
VLGT -1150HR	4300	725	3000	700	1400	3590	4450	1087

Single Type

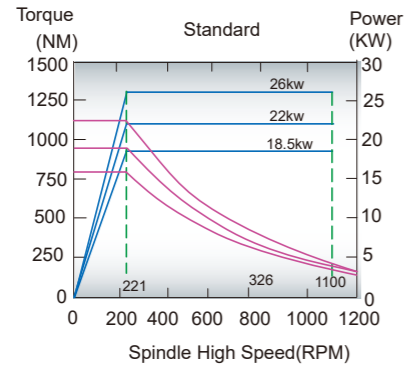


	L1	L2	W1	W2	H1	H2	H3
VLGT -750R	3800	500	2600	800	3130	3870	1120
VLGT -900R	4070	500	2700	800	3230	4130	1034
VLGT -1150HR	4300	725	3000	700	3890	4750	1087

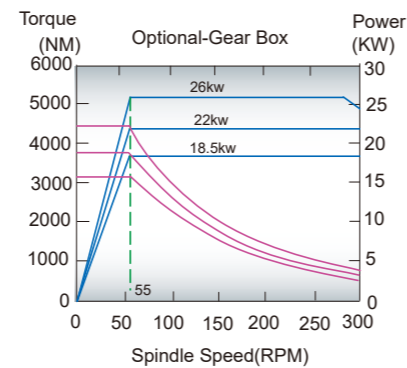
Main Spindle Output Performance Chart

Optional Accessories

VLGT 750 Series

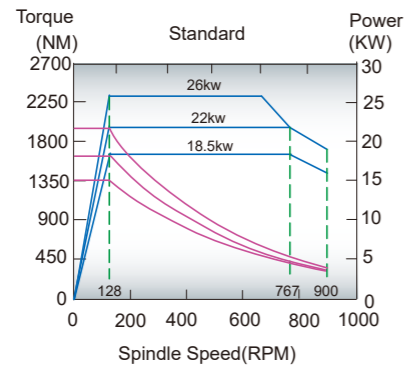


Fanuc- α40/ 6000ip
18.5/ 22 kw
5~1100 rpm/min

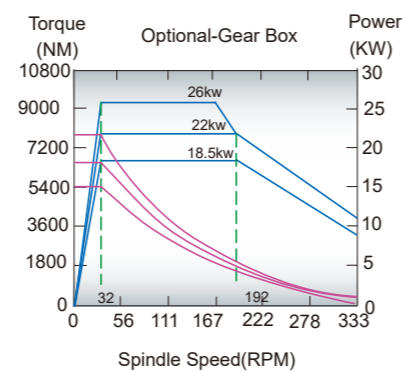


Fanuc- α40/ 6000ip+ Gear Box (1/4)
18.5/ 22 kw
5~300 rpm/min

VLGT 900 Series

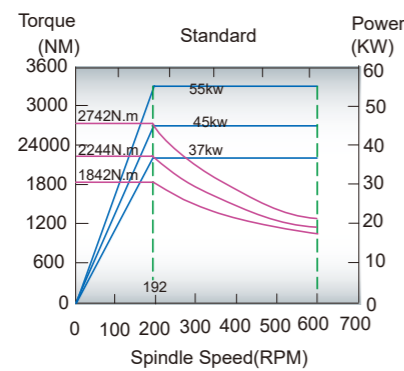


Fanuc- α40/ 6000ip
18.5/ 22 kw
5~900 rpm/min

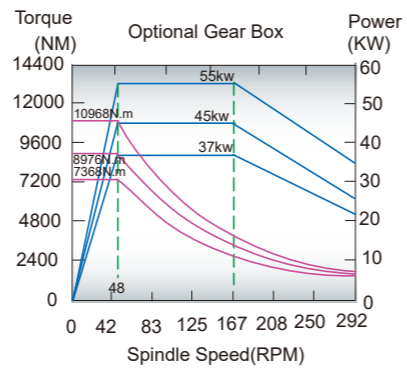


Fanuc- α40/ 6000ip+ Gear Box (1/4)
18.5/ 22 kw
5~333 rpm/min

VLGT 1150 Series



Fanuc- α40/ 7000i
37/45/55 kw
5~600 rpm/min



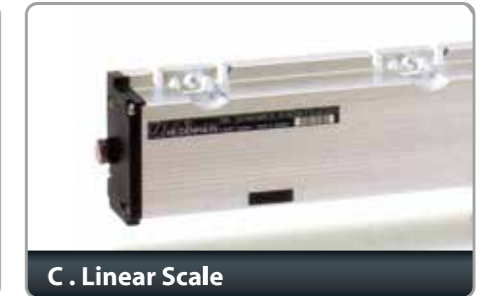
Fanuc- α40/ 7000i + Gear Box (1/4)
37/45/55 kw
5~292 rpm/min



A . Tool Pre-Setter
Instant tooling measuring.



B . Probing System for Workpiece
Saving operating time.



C . Linear Scale
Resolution 0.001mm.



D . Oilmist Collector



E . Power Turret



F . Servo

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



G . 2 Steps Gear Box

Low speed, high torque.



H . Electric Crane



I . Full Open Side Door

Good for large size componts and auto loading.



J . Siemens CNC Unit



K . Air-Conditioner

For electric box.



L . Special Toolings

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