

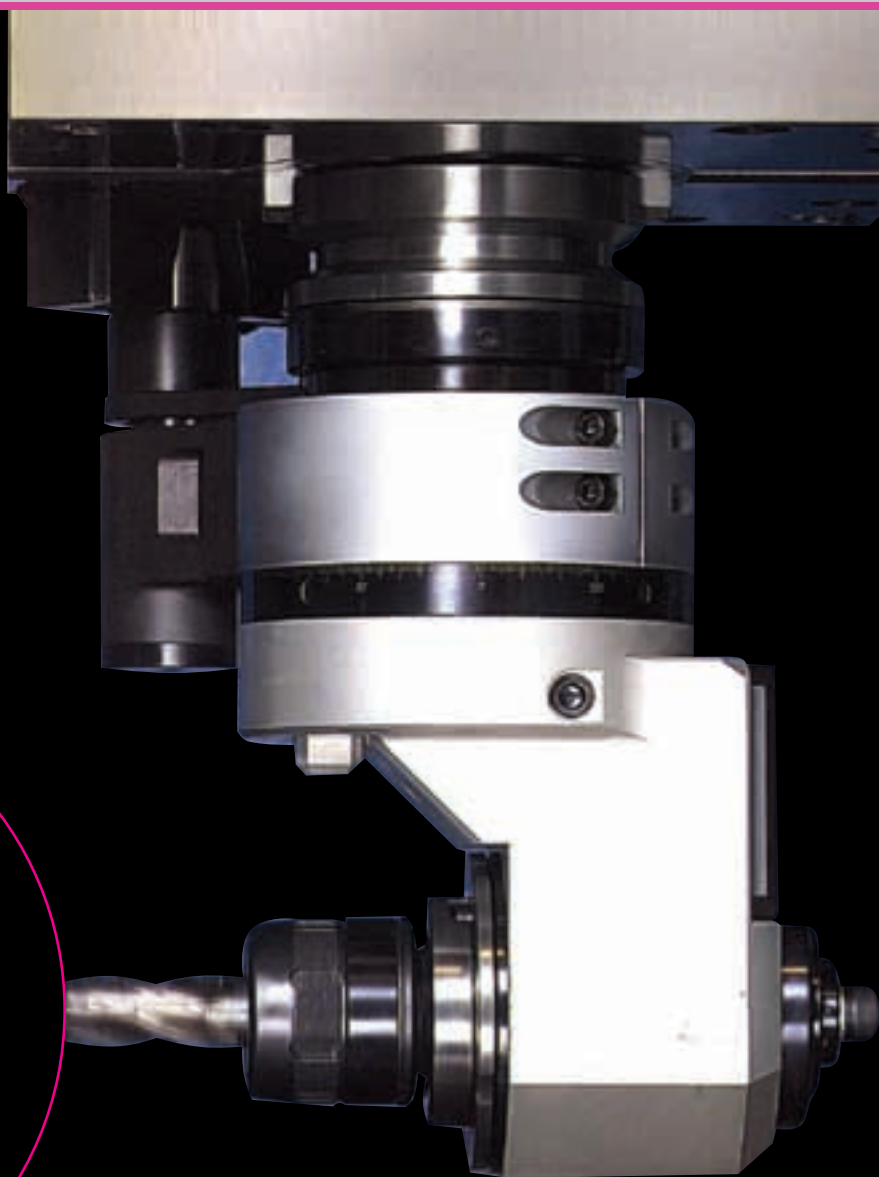


Axe & Status

Heavy Duty Vertical Turning Centre

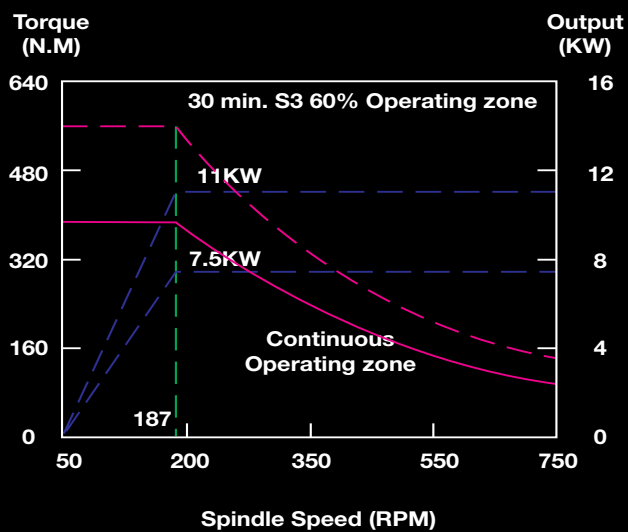
MASSA

Summit
VL-SERIES

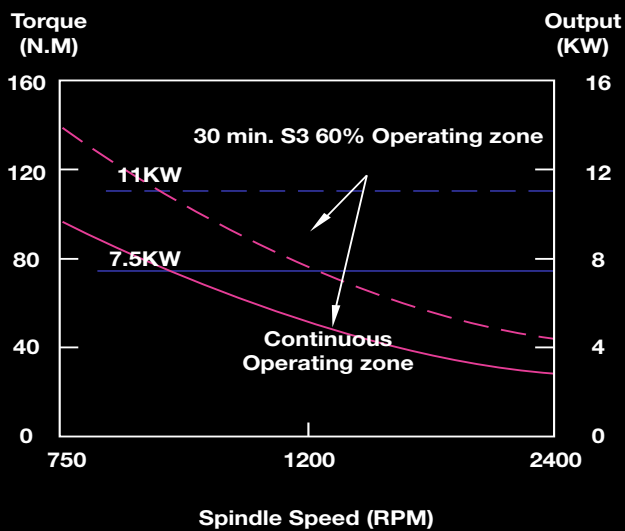


C Axis Output Performance Chart

- Fanuc- 8/8000i + ZF Gear Box (1/4)
- 7.5/11 kw (10/15 hp)
- 50~750 rpm/min (Low Speed)

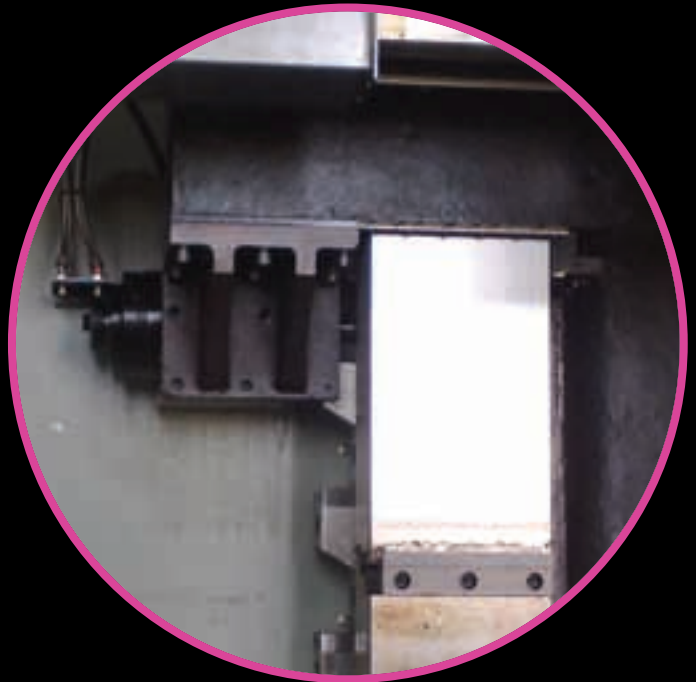


- Fanuc- 8/8000i + ZF Gear Box (1/1)
- 7.5/11 kw (10/15 hp)
- 750~2400 rpm/min (High Speed)



Specification

The power spindle combined with spindle motor and 2-step speedchange gear box provide powerful machining, such as face milling, end milling, drilling and tapping.



Hydraulic shot bolt levelling 200mm in program steps.

Established Since 1983

- 1983** - Massa YSP Manufacturing was established to focus on design of all types of special use tools.
- 1991** - Vertical lathe R&D.
- 1992** - Successful completion of our first vertical lathe, aimed at overseas markets.
- 1993** - Launch of our first heavy duty vertical lathe formally aimed at overseas markets.
- 1994** - Launch at our first vertical machining centre.
- 1995** - Invested in laser measuring and coordinate measuring equipment.
- 1996** - Vertical lathe successfully entered the Chinese and Southeast Asian markets.
- 1998** - All vertical lathe series and heavy duty vertical lathe series successfully entered the European market in a number of countries.
- 2002** - All vertical lathes formally CE certified in Germany.
- 2003** - Passed ISO 9001 certification.
- 2004** - Successfully introduced the large size vertical machining centre.
- 2005** - Successfully introduced the twin turret NC vertical lathe.
- 2006** - Successfully introduced the heavy duty twin turret NC vertical lathe.
- 2007** - Improved products through successful technical cooperation with famous Japanese and German machine tool manufacturers.
- 2008** - Began using the new factory in Taoyuan to manufacture large 2.5m and 3m heavy duty vertical centres, double column 5 axis machining centers and APC. Obtained TÜV and EMC certificates.
- 2009** - Continued R&D on all our products focusing on improved precision and sustainable business.



R&D and QC

Our outstanding R&D team possesses an outstanding design philosophy for special purpose machines, and is devoted to forward thinking product development. From the simple to the complex, for different machining methods and requirements. We understand what is needed to provide the perfect solution. You can expect all CNC Vertical Turning Lathes to work with integrated production lines and automation peripherals, backed up by a full service plan.

QC Testing Equipment

Precision Testing – Meeting international quality standards

We are known for our extreme diligence when it comes to quality control. Repeated testing throughout the manufacturing process has resulted in a QC program nearing perfection. We have introduced a complete range of precision testing equipment with a fresh injection of capital, and have proceeded with highly reliable testing and fine tuning of products. From initial development of the prototype to delivery of the final product, strict testing is required at each stage before moving on to the next – and in this way achieve a high level of defect free products.

Special Features

Coordinate Measuring Equipment

Comprehensive precision fine tuning can true geometric tolerances of testing equipment, accuracy adjustable to optimal conditions.

Renishaw XL-80 Laser Measurement System

Able to accurately test angular pitch and yaw as well as linear, angular, flatness, circularity, vertical and horizontal straightness within ± 1 arc second.

Moeller-Wedel Elcomat 3000 High Precision Measuring Instrument – Electronic Autocollimator

This unit performs precision testing of geometric parameters on machine tools including angular pitch, parallelism, vertical straightness etc.



Comprehensive Service – Working for total customer satisfaction

Perfect product quality is the primary condition if a company is to earn its customers' complete satisfaction. So be it design, order, manufacture, QC or delivery, the Massa YSP team runs checks throughout the production chain to ensure we surpass customer expectations at each stage. To extend the scope of QC at Massa YSP, the company possesses the same service strategy throughout.



ZF 2 speed high torque gear box



Machine without guards ready for testing and alignment checks.

Service Strategy

In addition to providing customers with the most suitable product for their application, Massa YSP maintains a considerable warehouse of spare parts on premises, to ensure immediate delivery. We know getting the job done right in the shortest amount of time possible guarantees you do not have to put up with any interruptions in production.

Products – Ultra Performance

In order to improve your efficiency and meet market demands, Massa YSP continuously introduces improved lathe products. All our machines exhibit diversified, integrated and specialised machining functions. All our spindles are servo motor driven, with high rigidity linear guides, hydraulic clamping force.

Massa YSP is constantly improving accuracy and precision in our machines. Our products are functional under all machining conditions requiring high rigidity and high strength, and will reduce your production time, labour and costs while providing the best precision and production automation solution available.



Precision geared drive to clutch

Our Team – Diligence and Dedication

Massa YSP is dedicated to a spirit of professionalism in every aspect of machine tool manufacturing. Sales, R&D, production, QC, customer service, administration – each employee, in every department, accepts full responsibility for their selves and works together to assure the greatest efficiencies.

Massa YSP also has plans for dedicated green space within our factory, because we know that happier staff work more harmoniously, which, in turn, ultimately improves service and efficiency.



CNC VERTICAL LATHES

Model	VL-600HR	VL-750HR	VL-850HR	VL-1000HR	VL-1100HR
Max. Swing Diameter	ø650 mm	ø780 mm	ø1000 mm	ø1200 mm	ø1250 mm
Max. Turning Diameter	ø600 mm	ø750 mm	ø850 mm	ø1000 mm	ø1100 mm
Max. Turning Height	400 mm	600 mm	700 mm	700 mm	1000 mm
Spindle Nose	A2-8	A2-11	A2-11	A2-15	A2-15
Turret	8 T	8 T(10 / 12 opt.)	8 T(10 / 12 opt.)	12 T	12 T
X Axis Travel	340 mm	500 mm	500 mm	800 mm	800 mm
Z Axis Travel	500 mm	800 mm	800 mm	800 mm	1000 mm
Spindle Speed	25~2250 rpm	20~2000 rpm	20~1500 rpm	20~1200 rpm	20~600 rpm
Spindle Motor	30 / 37 kw	37 / 45 kw	37 / 45 kw	37 / 45 kw	37/45(45/55opt.)kw
Machine (L x W)	3100 x 1510 mm	3400 x 1780 mm	4285 x 2300 mm	4435 x 2900 mm	4500 x 2520 mm
Machine (H)	3030 mm	3855 mm	4020 mm	4020 mm	4605 mm
Machine Weight	6500 kg	11000 kg	15000 kg	15000 kg	18000 kg

CNC ULTRA PERFORMANCE VERTICAL TURNING CENTERS

Model	VL-600HR+PT	VL-750HR+PT	VL-850HR+PT	VL-1000HR+PT	VL-1100HR+PT
Max. Swing Diameter	ø650 mm	ø780 mm	ø1000 mm	ø1200 mm	ø1250 mm
Max. Turning Diameter	ø600 mm	ø750 mm	ø850 mm	ø1000 mm	ø1100 mm
Max. Turning Height	400 mm	600 mm	700 mm	700 mm	1000 mm
Spindle Nose	A2-8	A2-11	A2-11	A2-15	A2-15
Power Turret	12 T	12 T	12 T	12 T	12 T
X Axis Travel	340 mm	500 mm	500 mm	800 mm	800 mm
Z Axis Travel	500 mm	800 mm	800 mm	800 mm	1000 mm
#1 Spindle Speed	25~2250 rpm	20~2000 rpm	20~1500 rpm	20~1200 rpm	20~600 rpm
#1 Spindle Motor	30 / 37 kw	37 / 45 kw	37 / 45 kw	37 / 45 kw	37/45(45/55opt.)kw
#2 Spindle Speed	5000 rpm	5000 rpm	4000 rpm	4000 rpm	3500 rpm
#2 Spindle Motor	5.5 / 7.5 kw	7.5 / 11 kw	7.5 / 11 kw	7.5 / 11 kw	7.5 / 11 kw
Machine (L x W)	3100 x 1510 mm	3400 x 1780 mm	4285 x 2300 mm	4435 x 2900 mm	4500 x 2520 mm
Machine (H)	3030 mm	3855 mm	4020 mm	4020 mm	4605 mm
Machine Weight	6500 kg	11000 kg	15000 kg	15000 kg	18000 kg

TWIN STAR SERIES CNC VERTICAL LATHES

Model	VL-600HLR	VL-750HLR	VL-850HLR	VL-1000HLR	VL-1100HLR
Max. Swing Diameter	ø650 mm	ø780 mm	ø1000 mm	ø1200 mm	ø1250 mm
Max. Turning Diameter	ø600 mm	ø750 mm	ø850 mm	ø1000 mm	ø1100 mm
Max. Turning Height	400 mm	600 mm	700 mm	700 mm	1000 mm
Spindle Nose	A2-8	A2-11	A2-11	A2-15	A2-15
Turret	8 T	8 T(10 / 12 opt.)	8 T(10 / 12 opt.)	12 T	12 T
X Axis Travel	340 mm	500 mm	500 mm	800 mm	500 mm
Z Axis Travel	500 mm	800 mm	800 mm	800 mm	1000 mm
Spindle Speed	25~2250 rpm	20~2000 rpm	20~1500 rpm	20~1200 rpm	20~600 rpm
Spindle Motor	30 / 37 kw	37 / 45 kw	37 / 45 kw	37 / 45 kw	37/45(45/55opt.)kw
Machine (L x W)	3100 x 3070 mm	3400 x 3610 mm	4285 x 4650 mm	4435 x 4650 mm	4500 x 5090
Machine (H)	3030 mm	3855 mm	4020 mm	4020 mm	4605 mm
Machine Weight	6500 kg x 2	11000 kg x 2	15000 kg x 2	15000 kg x 2	18000 kg x2

Heavy Duty Vertical Turning Centre



VL-600HR



VL-1000HR



VL-750HR+PT



VL-1100HR+PT



VL-750HLR



VL-850HLR

HEAVY DUTY VERTICAL LATHES

Model	VL-1000ATC	VL-1200ATC	VL-1600ATC
Table Diameter	ø1000 mm	ø1250 mm	ø1600 mm
Maximum Swing Diameter	ø1200 mm	ø1600 mm	ø2000 mm
Maximum Turning Diameter	ø1100 mm	ø1350 mm	ø1800 mm
Maximum Turning Height	900 mm	1250 mm	1250 mm
ATC	12 T(16/30/60/90 opt.)	12 T(16/30/60/90 opt.)	12 T(16/30/60/90 opt.)
X, Z Axis Travel	1350, 800 mm	1475, 900 (1200 opt.) mm	1675, 900(1200 opt.) mm
Crossrail Travel	500 mm	800 mm	800 mm
Spindle Speed	2~600 rpm	2~300 rpm	2~256 rpm
Spindle Motor	37 / 45 kw	37 / 45 (60 / 75 opt.) kw	37 / 45 (60 / 75 opt.) kw
Machine (L x W x H)	4120 x 5600 x 5320 mm	4700 x 5800 x 5500 mm	5050 x 6300 x 5500 mm
Machine Weight	24000 kg	32000 kg	35000 kg

Model	VL-2000ATC	VL-2500ATC	VL-3000ATC
Table Diameter	ø2000 mm	ø2500 mm	ø3000 mm
Maximum Swing Diameter	ø2500 mm	ø3000 mm	ø3500 mm
Maximum Turning Diameter	ø2300 mm	ø2800 mm	ø1800 mm
Maximum Turning Height	1600 mm	1600 mm	1800 mm
ATC	12 T(16/30/60/90 opt.)	12 T(16/30/60/90 opt.)	12 T(16/30/60/90 opt.)
X, Z Axis Travel	2275, 1000(1500 opt.) mm	2525, 1200 mm	2775, 1500 mm
Crossrail Travel	1150 mm	1150 mm	1150 mm
Spindle Speed	2~200 rpm	2~160 rpm	2~120 rpm
Spindle Motor	60 / 75 (75 / 100 opt.) kw	60 / 75 (75 / 100 opt.) kw	60 / 75 (75 / 100 opt.) kw
Machine (L x W x H)	4900 x 7600 x 6700 mm	5500 x 7600 x 7000 mm	5500 x 8000 x 7600 mm
Machine Weight	43000 kg	52000 kg	55000 kg

HEAVY DUTY CNC ULTRA PERFORMANCE VERTICAL TURNING CENTERS

Model	VL-1000ATC+C	VL-1200ATC+C	VL-1600ATC+C
Table Diameter	ø1000 mm	ø1250 mm	ø1600 mm
Maximum Swing Diameter	ø1200 mm	ø1600 mm	ø2000 mm
Maximum Turning Diameter	ø1100 mm	ø1350 mm	ø1800 mm
Maximum Turning Height	900 mm	1250 mm	1250 mm
ATC	12 T(30/60/90 opt.)	12 T(30/60/90 opt.)	12 T(30/60/90 opt.)
X, Z Axis Travel	1350, 800 mm	1475, 900 (1200 opt.) mm	1675, 900(1200 opt.) mm
#1 Spindle Speed	2~600 rpm	2~300 rpm	2~256 rpm
#1 Spindle Motor	37 / 45 kw	37 / 45 (60 / 75 opt.) kw	37 / 45 (60 / 75 opt.) kw
#2 Spindle Speed	2400 rpm	2400 rpm	2400 rpm
#2 Spindle Motor	7.5 / 11 kw	7.5 / 11 kw	7.5 / 11 kw
Machine (L x W x H)	4120 x 5600 x 5320 mm	4700 x 5800 x 5500 mm	5050 x 6300 x 5500 mm
Machine Weight	25000 kg	33000 kg	36000 kg

Model	VL-2000ATC+C	VL-2500ATC+C	VL-3000ATC+C
Table Diameter	ø2000 mm	ø2500 mm	ø3000 mm
Maximum Swing Diameter	ø2500 mm	ø3000 mm	ø3500 mm
Maximum Turning Diameter	ø2300 mm	ø2800 mm	ø3400 mm
Maximum Turning Height	1600 mm	1600 mm	1800 mm
ATC	16 T(30/60/90 opt.)	16 T(30/60/90 opt.)	16 T(30/60/90 opt.)
X, Z Axis Travel	2275, 1000(1200 opt.) mm	2525, 1200 mm	2775, 1500 mm
#1 Spindle Speed	2~200 rpm	2~160 rpm	2~120 rpm
#1 Spindle Motor	60 / 75 (75 / 100 opt.) kw	60 / 75 (75 / 100 opt.) kw	60 / 75 (75 / 100 opt.) kw
#2 Spindle Speed	2400 rpm	2400 rpm	2400 rpm
#2 Spindle Motor	11 / 15 kw	11 / 15 kw	11 / 15 kw
Machine (L x W x H)	4900 x 7600 x 6700 mm	5500 x 7600 x 7000 mm	5500 x 8000 x 7600 mm
Machine Weight	50000 kg	53000 kg	56000 kg

Heavy Duty Vertical Turning Centre



VL-1200ATC



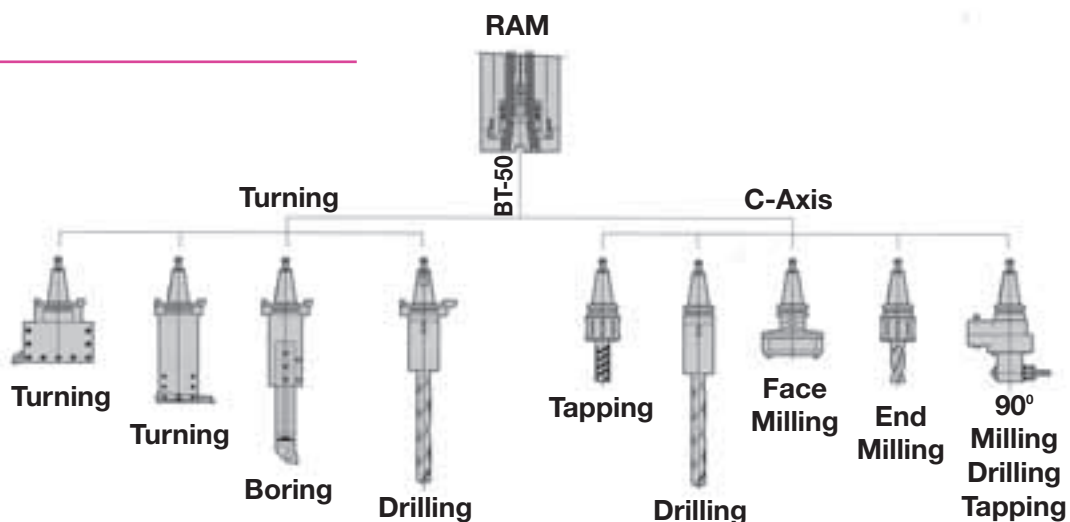
VL-1600ATC+C



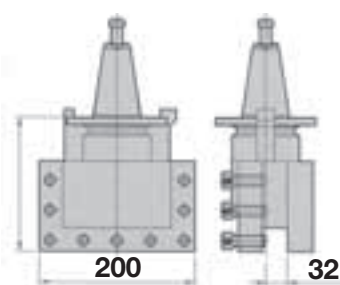
VL-1600ATC+C with auto-pallet changer

Tool Dimensions

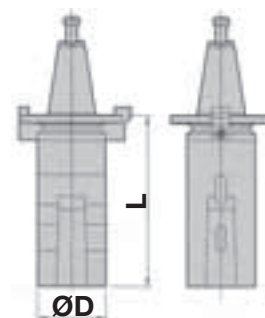
Tooling System



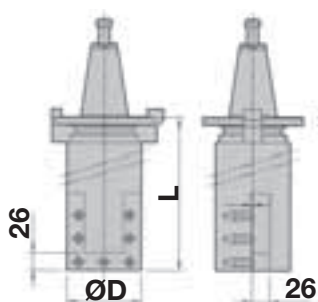
Tooling Holder



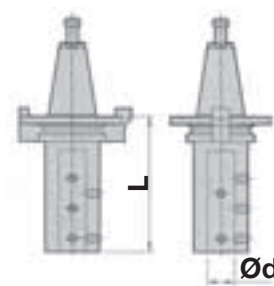
No.	Specification	Dimensions (L)	Tool Type
1	A-32-160	160	
2	A-32-200	200	
3	A-32-250	250	



No.	Specification	Dimensions (LxD)	Tool Type
1	D-MT5-230	230 x 85	5
2	D-MT6-300	300 x 100	6



No.	Specification	Dimensions (LxD)	Tool Type
1	B-25-200	200 x 110	
2	B-25-250	250 x 110	
3	B-25-350	350 x 100	
4	B1-25-200	200 x 130	
5	B1-25-250	250 x 130	
6	B1-25-350	350 x 130	

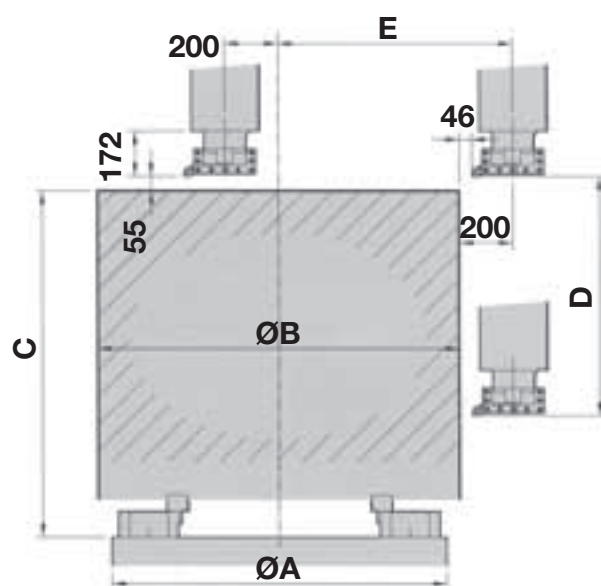


No.	Specification	Dimensions (LxD)
1	C-25-150	150 x 25
2	C-32-180	180 x 32
3	C-40-200	200 x 40
4	C-50-250	250 x 50
5	C-63-280	280 x 63

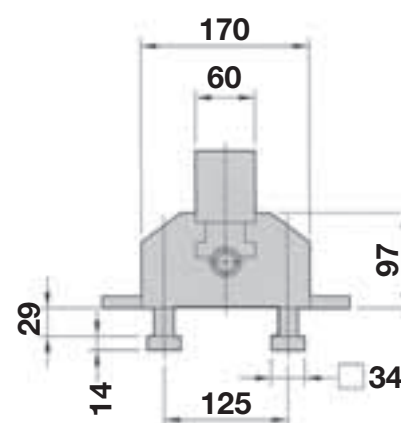
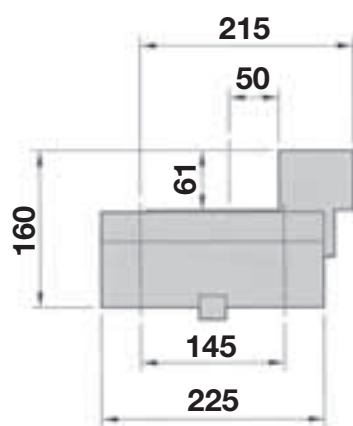
Technical Data

Axis Travel & Tooling Interference

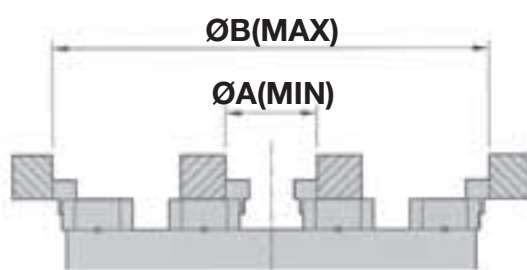
Model	ØA	ØB	C	D	E
VL-1000	1000	1150	1000	800	775
VL-1200	1250	1350	1300	900	875
VL-1600	1600	1800	1300	900	1125
VL-2000	2000	2300	1600	1000	1350



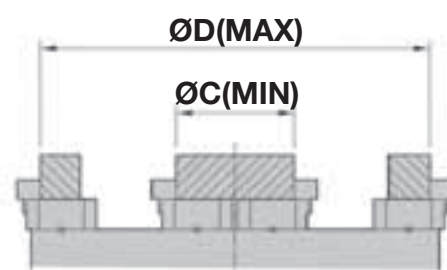
Boring Mill Jaws



Jaws Clamp From Inside:



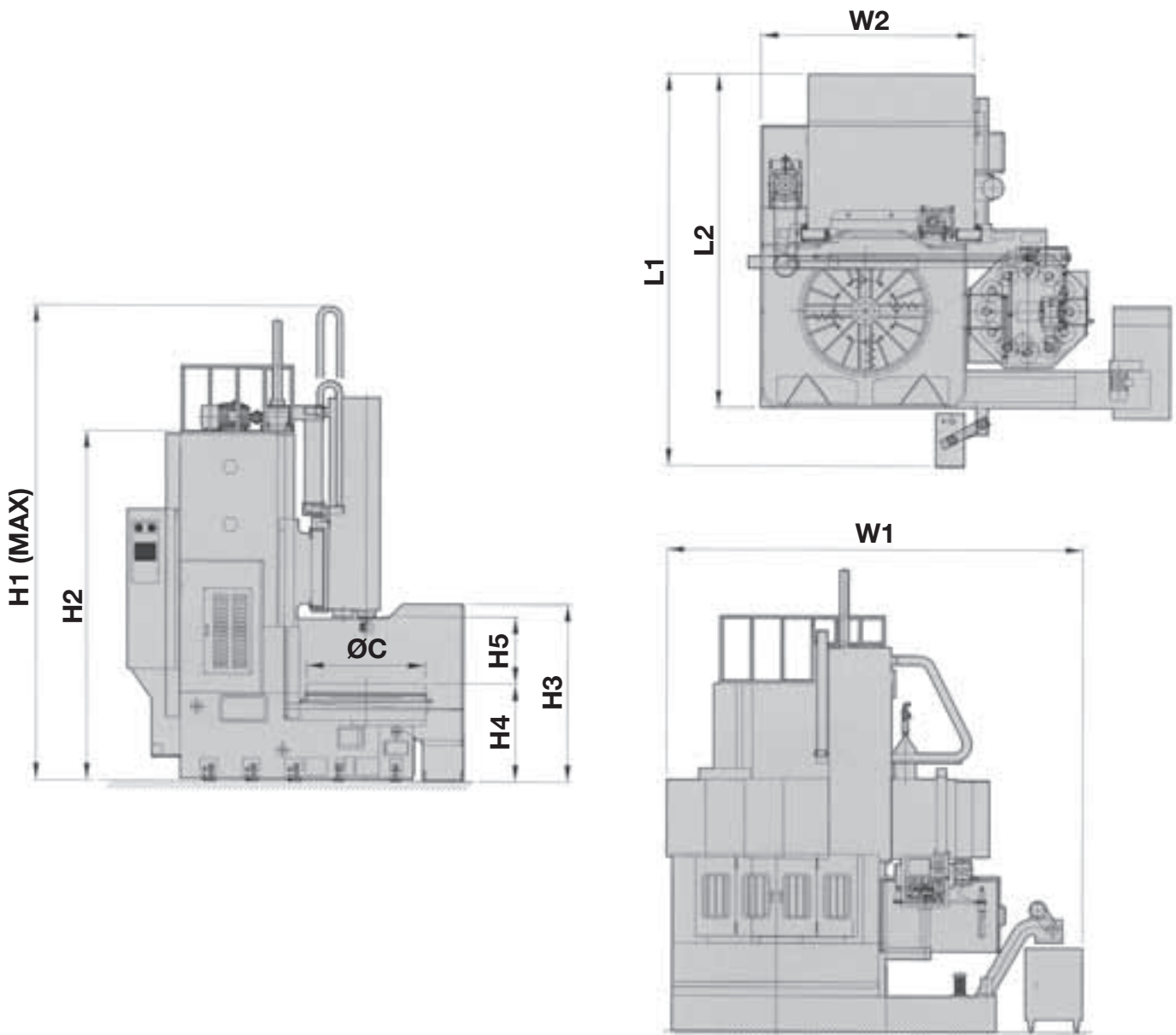
Jaws Clamp From Outside:



Model	ØA	ØB
VL-1000	390	1150
VL-1200	390	1340
VL-1600	390	1660
VL-2000	390	2060

Model	ØC	ØD
VL-1000	210	1000
VL-1200	240	1195
VL-1600	240	1515
VL-2000	240	1915

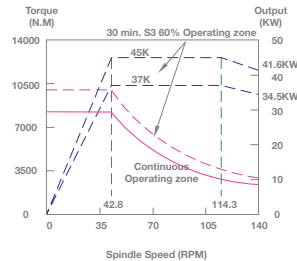
Machine Dimensions



Model	VL-1000 ATC	VL-1200 ATC	VL-1600 ATC	VL-2000 ATC
L1	4000	4200	4650	5100
L2	3350	3550	4050	4460
W1	4200	4500	4900	7125
W2	2150	2250	2250	3190
H1	5000	5500	5500	6300
H2	3620	3720	3720	4325
H3	1950	1950	1950	2200
H5	690	690	690	700

VL-1000 Output Performance

- Fanuc- 40/6000i + ZF Gear Box (1/5.5)
- 37/45 kw (50/60 hp)
- 2~140 rpm/min (Low Speed)



- Fanuc- 40/6000i + ZF Gear Box (1/1)
- 37/45 kw (50/60 hp)
- 141~600 rpm/min (High Speed)

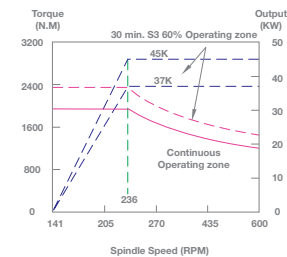
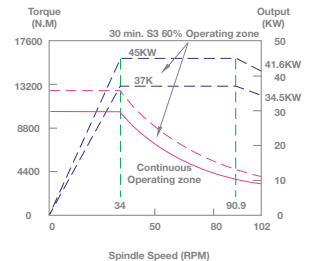


Table Diameter:	Ø1000 mm
Max Swing Dia:	Ø1200 mm
Max Turning Dia:	Ø1100 mm
Max Turing Height:	900 mm
Table Speed:	2~600 rev/min

VL-1200 Output Performance

- Fanuc- 40/6000i + ZF Gear Box (1/5.5)
- 37/45 kw (50/60 hp)
- 2~102 rpm/min (Low Speed)



- Fanuc- 40/6000i + ZF Gear Box (1/1)
- 37/45 kw (50/60 hp)
- 103~300 rpm/min (High Speed)

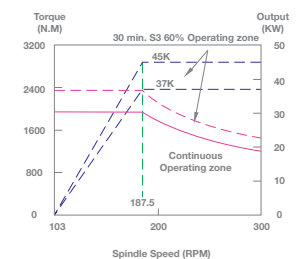
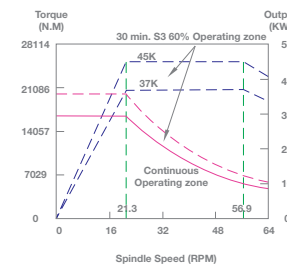


Table Diameter:	Ø1250 mm
Max Swing Dia:	Ø1600 mm
Max Turning Dia:	Ø1350 mm
Max Turing Height:	1250 mm
Table Speed:	2~300 rev/min

VL-1600 Output Performance

- Fanuc- 40/6000i + ZF Gear Box (1/4)
- 37/45 kw (50/60 hp)
- 2~64 rpm/min (Low Speed)



- Fanuc- 40/6000i + ZF Gear Box (1/1)
- 37/45 kw (50/60 hp)
- 65~256 rpm/min (High Speed)

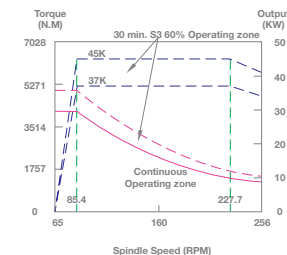
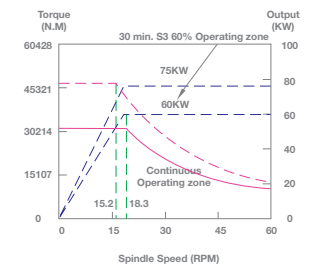


Table Diameter:	Ø1600 mm
Max Swing Dia:	Ø2000 mm
Max Turning Dia:	Ø1800 mm
Max Turing Height:	1250 mm
Table Speed:	2~256 rev/min

VL-2000 Output Performance

- Fanuc- 40/4500HVi + ZF Gear Box (1/4)
- 60/75 kw (80/100 hp)
- 2~60 rpm/min (Low Speed)



- Fanuc- 40/4500HVi + ZF Gear Box (1/1)
- 60/75 kw (80/100 hp)
- 61~200 rpm/min (High Speed)

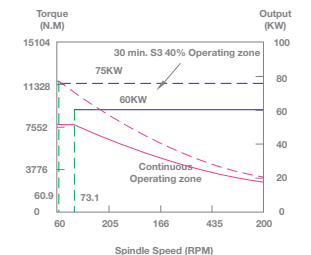


Table Diameter:	Ø2000 mm
Max Swing Dia:	Ø2500 mm
Max Turning Dia:	Ø2300 mm
Max Turing Height:	1250 mm
Table Speed:	2~200 rev/min



Axe & Status

Unit 2, Saxon Park, Bond Avenue,
Bletchley, Milton Keynes, MK1 1QU UK
Tel: 44 (01908) 647707
Fax: 44 (01908) 648087
Email: sales@axestatus.com
Web: www.axestatus.com

