

The Latest Generation VERTICAL MACHINING CENTER



Manufacturing Unit
of S&T Group



Discover the meaning of value



S&T
GROUP
SINCE 1996



**Impressive
Performance**

**Robust
Construction**

**Enhanced
Productivity**

**Great
Reliability**



Established in 1996, S&T GROUP is a renowned provider of high-quality machinery. Leveraging our strengths in industrial trading business, and built with a formidable customer base, S&T GROUP got into manufacturing activity to sustain the Group Vision, “Making Technology Affordable” to Indian customers. Established in June 2015, with the state of the art manufacturing facilities in very less time span, now STM (S&T Machinery Pvt. Ltd.) is one among top 5 machine tools brands in India.

S&T has been offering machining solutions for more than 25 years. Quality-conscious manufacturers have relied on S&T for world-renowned products and dependable after-sales service and support. Our extensive expertise in the machine tool business has enabled us to comprehend the machining industry's demands. Our entry into machining center production in India is yet another step toward making sophisticated technology more accessible to the Indian manufacturing sector.



VL / VD 510

FEATURES

- **'A' shape** structured column with multiple cross ribs provides high cutting performance and superior kinematics.
- **Wide casting base** enhances heavy cutting and provides uniform stability for full travel.
- **LM Ball Guideways in all three axes** offer better cutting dynamics and machine life.
- Imported BBT40 Spindle with G1 balanced grade offers **excellent finish up to 0.45Ra and increases tool life.**
- The latest **Mitsubishi and Fanuc controllers** are available.
- 10,000mm/min Cutting Feed rate and 48m/mm quick rapid provide **great efficiency and productivity.**

Belt Drive Spindle BBT40 [VL - Series]

8,000rpm
10,000rpm / 12,000rpm (Optional)

Direct Drive Spindle BBT40 [VD - Series]

8,000rpm
10,000rpm / 12,000rpm / 15,000rpm
(Optional)



VL 510 - TECHNICAL SPECIFICATIONS

Travel

X, Y, Z travel	550/410/480mm
X, Y, Z ball screws	C3 32mm
Spindle nose to table surface	100~580 mm
Spindle center to telescopic cover	459mm

Table

Table size	650 * 410mm
T slot (size x qty x dist.)	14mm x 3 x 125mm
Max. table load	250Kg

Spindle

Speed	8,000rpm (Opt: 10,000rpm)
Taper	BBT40
Transmission	Belt Type
Guide ways type	LM Ball

Feed Rate

Rapid feed rate of X,Y,Z Axis	48/48/48m/min
Cutting feed rate	1-10,000mm/min

Accuracy as per VDI - DGQ - 3441

Position accuracy	±0.005
Repeatability	±0.003

Automatic Tool Changer

Tool storage capacity	Arm 20T ATC
Max. tool diameter(Arm Type)	Full: 80mm Next empty: 125mm
Max. tool length (Arm Type)	250mm
Max. tool weight (Arm Type)	7Kg

CNC Controller & Motor

CNC controller	Mitsubishi M80
Spindle motor Axis motor X,Y,Z	3.7/5.5kW (Opt: 5.5/7.5kW) 2.2/2.2/2.2kW

Coolant

Pressure	4Kg/cm ²
Coolant pump	0.75Hp
Coolant tank capacity	230L

Air & Power Supply

Air source	5-7Kg/cm ²
Power supply	15kVA

Machine Size

Machine dimensions (L*W*H)	2,235 x 2,075 x 2,495mm
Machine net weight (approx.)	2,800Kg

VL 510 - FRAME



VL / VD 610

FEATURES

- **'A' shape** structured column with multiple cross ribs provides high cutting performance and superior kinematics.
- **Wide casting base** enhances heavy cutting and provides uniform stability for full travel.
- **LM Roller Guideways in all three axes** offer better cutting dynamics and machine life.
- Imported BBT40 Spindle with G1 balanced grade offers **excellent finish up to 0.45Ra and increases tool life.**
- The latest **Mitsubishi and Fanuc controllers** are available.
- 10,000mm/min Cutting Feed rate and 36m/mm quick rapid provide **great efficiency and productivity.**

Belt Drive Spindle BBT40 [VL - Series]

8,000rpm
10,000rpm / 12,000rpm (Optional)

Direct Drive Spindle BBT40 [VD - Series]

8,000rpm
10,000rpm / 12,000rpm / 15,000rpm
(Optional)



VL 610 - TECHNICAL SPECIFICATIONS

Travel

X, Y, Z travel	640/450/500mm
X, Y, Z ball screws	C3 32mm
Spindle nose to table surface	100~600 mm
Spindle center to telescopic cover	524mm

Table

Table size	800 * 450mm
T slot (size x qty x dist.)	18mm x 5 x 95mm
Max. table load	500Kg

Spindle

Speed	8,000rpm (Opt: 10,000rpm)
Taper	BBT40
Transmission	Belt Type
Guide ways type	LM Roller

Feed Rate

Rapid feed rate of X,Y,Z Axis	36/36/36m/min
Cutting feed rate	1-10,000mm/min

Accuracy as per VDI - DGQ - 3441

Position accuracy	±0.005
Repeatability	±0.003

Automatic Tool Changer

Tool storage capacity	Arm 20T ATC
Max. tool diameter(Arm Type)	Full: 80mm Next empty: 125mm
Max. tool length (Arm Type)	300mm
Max. tool weight (Arm Type)	8Kg

CNC Controller & Motor

CNC controller	Mitsubishi M80
Spindle motor	5.5/7.5(Opt: 7.5/11)kW
Axis motor X,Y,Z	2.2/2.2/2.2kW

Coolant

Pressure	4Kg/cm ²
Coolant pump	0.75Hp
Coolant tank capacity	230L

Air & Power Supply

Air source	5-7Kg/cm ²
Power supply	15kVA

Machine Size

Machine dimensions (L*W*H)	2,235 x 2,075 x 2,785mm
Machine net weight (approx.)	4,000Kg

VL 610 - FRAME

The Roller Type Linear Motion Guideways features Low friction and resistance to stick-and-slip. These qualities make them particularly well-suited for high-speed cutting and finishing.



The quality of the workpiece surface is improved, and the necessity for hand polishing is minimised.



VL / VD 850

FEATURES

- To match greater accuracy and higher reliability at higher speed, **VL 850 is developed with high dynamic structure support and cutting kinematics.**
- **Broad base and heavy column improves vibration damping** and balance the machine during machining with heavy cutting parameter.
- Broad table supported by precision LM Roller Guideways to **offer high load carrying capacity.**
- **Best suited for high material removal** application from production to die mould.

Belt Drive Spindle BBT40 [VL - Series]

8,000rpm
10,000rpm / 12,000rpm (Optional)

Direct Drive Spindle BBT40 [VD - Series]

8,000rpm
10,000rpm / 12,000rpm / 15,000rpm
(Optional)



VL 850 - TECHNICAL SPECIFICATIONS

Travel

X, Y, Z travel	850/510/510mm
X, Y, Z ball screws	C3 40mm
Spindle nose to table surface	140~650mm
Spindle center to telescopic cover	524mm

Table

Table size	1000 * 500mm
T slot (size x qty x dist.)	18mm x 5 x 100mm
Max. table load	800Kg

Spindle

Speed	8,000rpm (Opt: 10,000rpm)
Taper	BBT40
Transmission	Belt Type
Guide ways type	LM Roller

Feed Rate

Rapid feed rate of X,Y,Z Axis	36/36/36m/min
Cutting feed rate	1-10,000mm/min

Accuracy as per VDI - DGQ - 3441

Position accuracy	±0.005
Repeatability	±0.003

Automatic Tool Changer

Tool storage capacity	Arm 24T ATC
Max. tool diameter(Arm Type)	Full: 80mm Next empty: 125mm
Max. tool length (Arm Type)	300mm
Max. tool weight (Arm Type)	8Kg

CNC Controller & Motor

CNC controller	Mitsubishi M80
Spindle motor	7.5/11 (Opt: 7.5/11/15)kW
Axis motor X,Y,Z	2.2/2.2/3.0kW

Coolant

Pressure	4Kg/cm ²
Coolant pump	0.75Hp
Coolant tank capacity	230L

Air & Power Supply

Air source	5-7Kg/cm ²
Power supply	15kVA (Opt: 20kVA)

Machine Size

Machine dimensions (L*W*H)	2,630 x 2,300 x 2,785mm
Machine net weight (approx.)	5,500Kg

VL 850 - FRAME

The Roller Type Linear Motion Guideways features Low friction and resistance to stick-and-slip. These qualities make them particularly well-suited for high-speed cutting and finishing.



The quality of the workpiece surface is improved, and the necessity for hand polishing is minimised.



VL / VD 1000

FEATURES

- **'A' shape column** with multiple cross ribs provides high cutting performance and vibration damping.
- Large projects benefit greatly from a **wide base** during heavy machining.
- LM Roller Guideways in all three axes offer **better cutting dynamics and machine life**.
- Imported BBT40 Spindle with G1 balanced grade offers **excellent finish up to 0.45Ra** and enhanced tool life.
- The latest **Mitsubishi** and **Fanuc** controllers are available.
- **10,000rpm (Optional) Spindle with ceramic bearing** enables for precise machining and Finish.
- 10,000mm/min Feed and 36m/min quick rapid provide **great efficiency and output**.

Belt Drive Spindle BBT40 [VL - Series]

8,000rpm
10,000rpm / 12,000rpm (Optional)

Direct Drive Spindle BBT40 [VD - Series]

8,000rpm
10,000rpm / 12,000rpm / 15,000rpm
(Optional)



VL 1000 - TECHNICAL SPECIFICATIONS

Travel

X, Y, Z travel	1000/510/510mm
X, Y, Z ball screws	C3 40mm
Spindle nose to table surface	140~650mm
Spindle center to telescopic cover	524mm

Table

Table size	1100 * 510mm
T slot (size x qty x dist.)	18mm x 5 x 100mm
Max. table load	850Kg

Spindle

Speed	8,000rpm (Opt: 10,000rpm)
Taper	BBT40
Transmission	Belt Type
Guide ways type	LM Roller

Feed Rate

Rapid feed rate of X,Y,Z Axis	36/36/36m/min
Cutting feed rate	1-10,000mm/min

Accuracy as per VDI - DGQ - 3441

Position accuracy	±0.005
Repeatability	±0.003

Automatic Tool Changer

Tool storage capacity	Arm 24T ATC
Max. tool diameter(Arm Type)	Full: 80mm Next empty: 125mm
Max. tool length (Arm Type)	300mm
Max. tool weight (Arm Type)	8Kg

CNC Controller & Motor

CNC controller	Mitsubishi M80
Spindle motor	7.5/11 (Opt: 11/15)kW
Axis motor X,Y,Z	2.2/2.2/3.0kW

Coolant

Pressure	4Kg/cm ²
Coolant pump	0.75Hp
Coolant tank capacity	230L

Air & Power Supply

Air source	5-7Kg/cm ²
Power supply	15kVA (Opt: 20kVA)

Machine Size

Machine dimensions (L*W*H)	2,910 x 2,300 x 2,785mm
Machine net weight (approx.)	6,200Kg

VL 1000 - FRAME

The Roller Type Linear Motion Guideways features Low friction and resistance to stick-and-slip. These qualities make them particularly well-suited for high-speed cutting and finishing.



The quality of the workpiece surface is improved, and the necessity for hand polishing is minimised.



VL / VD 1050

FEATURES

- **'A' shape column** with multiple cross ribs provides high cutting performance and vibration damping.
- Large projects benefit greatly from a **wide base** during heavy machining.
- LM Roller Guideways in all three axes offer **better cutting dynamics and machine life**.
- Imported BBT40 Spindle with G1 balanced grade offers **excellent finish up to 0.45Ra** and enhanced tool life.
- The latest **Mitsubishi and Fanuc** controllers are available.
- **10,000rpm (Optional) Spindle with ceramic bearing** enables for precise machining and Finish.
- 10,000mm/min Feed and 36m/min quick rapid provide **great efficiency and output**.

— Belt Drive Spindle BBT40 [VL - Series]

8,000rpm

10,000rpm / 12,000rpm (Optional)

— Belt Drive Spindle BBT50 [VL - Series]

6,000rpm

8,000rpm (Optional)

— Direct Drive Spindle BBT40 [VD - Series]

10,000rpm

12,000rpm / 15,000rpm (Optional)

— Direct Drive Spindle BBT50 [VD - Series]

8,000rpm

10,000rpm (Optional)



VL 1050 - TECHNICAL SPECIFICATIONS

Travel

X, Y, Z travel	1100/650/610mm
X, Y, Z ball screws	C3 40mm
Spindle nose to table surface	130~740mm
Spindle center to telescopic cover	650mm

Table

Table size	1200 * 600mm
T slot (size x qty x dist.)	18mm x 5 x 100mm
Max. table load	1000Kg

Spindle

Taper / Speed	"BBT40: 8,000rpm " (Opt: 10,000rpm) "BBT50: 6,000rpm " (Opt: 8,000rpm)
Transmission	Belt Type
Guide ways type	LM Roller

Feed Rate

Rapid feed rate of X,Y,Z Axis	36/36/36m/min
Cutting feed rate	1-10,000mm/min

Accuracy as per VDI - DGQ - 3441

Position accuracy	±0.005
Repeatability	±0.003

Automatic Tool Changer

Tool storage capacity	Arm 24T ATC
Max. tool diameter(Arm Type)	Full: 80mm(BT50-120mm) Next empty: 125mm (BT50-200mm)
	Max. tool length-Arm Type (BT40-300mm) (BT50-350mm)
	Max. tool weight-Arm Type (BT40-8Kg) (BT50-15Kg)

CNC Controller & Motor

CNC controller	Mitsubishi M80
Spindle motor	7.5/11 (Opt: 11/15)kW
Axis motor X,Y,Z	2.2/2.2/3.0kW

Coolant

Pressure	4Kg/cm ²
Coolant pump	0.75Hp
Coolant tank capacity	270L

Air & Power Supply

Air source	5-7Kg/cm ²
Power supply	15kVA (Opt: 20kVA)

Machine Size

Machine dimensions (L*W*H)	3,135 x 2,675 x 3,020mm
Machine net weight (approx.)	7,000Kg

VL 1050 - FRAME

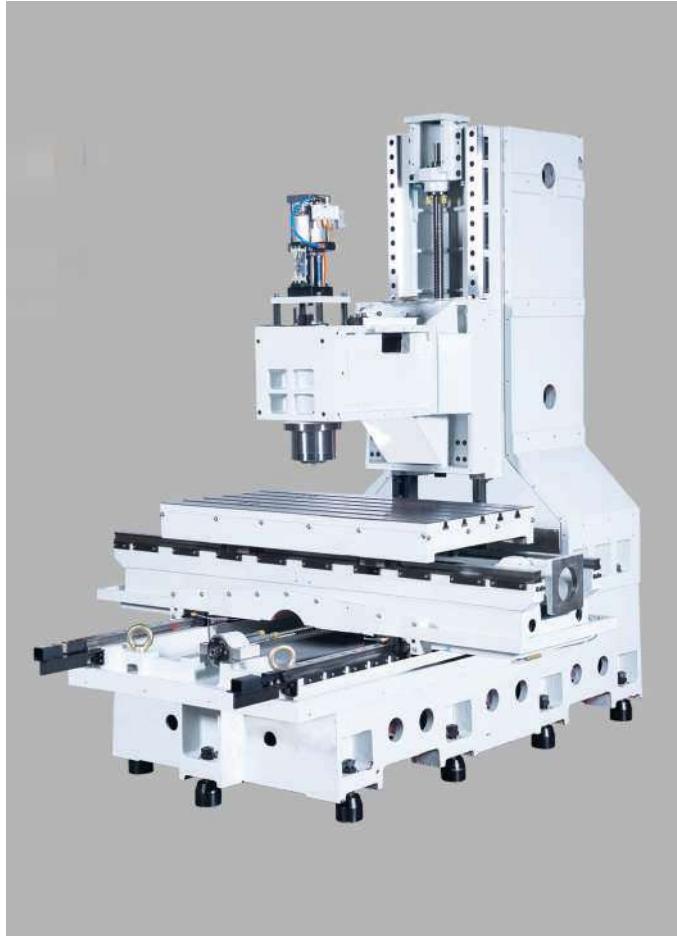
The Roller Type Linear Motion Guideways features Low friction and resistance to stick-and-slip. These qualities make them particularly well-suited for high-speed cutting and finishing.



The quality of the workpiece surface is improved, and the necessity for hand polishing is minimised.

BBT#50 (Optional) 6000rpm Belt

Spindle is ideal for heavy cutting applications that result in higher material removal rates. In addition, the spindle also features high precision and low thermal growth.



VL / VD 1300

The sufficient depth from spindle center to machine telescopic cover not only accommodates 700mm Y-axis travel but enables easy access for large-diameter face milling cutters.



FEATURES

- **'A' shaped column** with multiple cross ribs provides high cutting performance.
- Large projects benefit greatly from a **wide base** during heavy machining.
- LM Roller Guideways in all three axes **offer better cutting dynamics and machine life**.
- Imported BBT40 Spindle with G1 balanced grade offers **excellent finish up to 0.45Ra**.
- The latest **Mitsubishi and Fanuc controllers** are available.
- **10,000rpm (Optional) Spindle with ceramic bearing** enables for precise machining and Finish.
- 10,000mm/min Feed and 30m/min quick rapid provide **great efficiency and output**.
- The X axis LM Roller Guideways include 6 blocks to **offer consistent stability during large component machining**.

— Belt Drive Spindle BBT40 [VL - Series]

8,000rpm
10,000rpm / 12,000rpm (Optional)

— Belt Drive Spindle BBT50 [VL - Series]

6,000rpm
8,000rpm (Optional)

— Direct Drive Spindle BBT40 [VD - Series]

10,000rpm
12,000rpm / 15,000rpm (Optional)

— Direct Drive Spindle BBT50 [VD - Series]

8,000rpm
10,000rpm (Optional)



VL 1300 - TECHNICAL SPECIFICATIONS

Travel

X, Y, Z travel	1300/700/700mm
X, Y, Z ball screws	C3 40mm
Spindle nose to table surface	120~820mm
Spindle center to telescopic cover	714mm

Table

Table size	1450 * 650mm
T slot (size x qty x dist.)	18mm x 5 x 140mm
Max. table load	1500Kg

Spindle

Taper / Speed	"BBT40-8,000rpm" (Opt: 10,000rpm) "BBT50-6,000rpm" (Opt: 8,000rpm)
Transmission	Belt Type
Guide ways type	LM Roller

Feed Rate

Rapid feed rate of X,Y,Z Axis	30/30/24m/min
Cutting feed rate	1-10,000mm/min

Accuracy as per VDI - DGQ - 3441

Position accuracy	±0.005
Repeatability	±0.003

Automatic Tool Changer

Tool storage capacity	Arm 24T ATC
Max. tool diameter(Arm Type)	Full: 80mm(BT50-120mm) Next empty: 125mm (BT50-200mm)
Max. tool length-Arm Type	(BT40-300mm) (BT50-350mm)
Max. tool weight-Arm Type	(BT40-8Kg) (BT50-15Kg)

CNC Controller & Motor

CNC controller	Mitsubishi M80
Spindle motor	11/15 (Opt: 15/18.5)kW
Axis motor X,Y,Z	3.0/3.0/4.5kW

Coolant

Pressure	4Kg/cm ²
Coolant pump	0.75Hp
Coolant tank capacity	300L

Air & Power Supply

Air source	5-7Kg/cm ²
Power supply	25kVA

Machine Size

Machine dimensions (L*W*H)	3,950 x 2,850 x 3,095mm
Machine net weight (approx.)	8,500Kg

VL 1300 - FRAME

The Roller Type Linear Motion Guideways features Low friction and resistance to stick-and-slip. These qualities make them particularly well-suited for high-speed cutting and finishing.



The quality of the workpiece surface is improved, and the necessity for hand polishing is minimised.

BBT#50 - 6,000rpm Spindle Belt (Optional)

BBT#50 spindle is ideal for heavy cutting applications that result in higher material removal rates. In addition, the spindle also features high precision and low thermal growth.



VL / VD 1600

FEATURES

- The 'A' shape column with multiple cross ribs offers good cutting and stability.
- Extremely stable for larger components under intensive machining.
- The Y axis uses **4 LM Roller Guideways** for reliable performance and dynamics.
- The LM Roller Guideways on all three axes of **equal sizes for uniform stability and minimized overhanging**.
- Imported BBT40 Spindle with G1 balanced grade **offers a high finish up to 0.45Ra**.
- The latest **Mitsubishi and Fanuc controllers** are available.
- The **BBT50 option** increases MRR.
- **High efficiency and productivity is assured** with 10,000mm/min Feed and 30m/min fast rapid.
- The LM Roller Guideways include multiple shoes on all three axes for **higher stability and smooth movement** during HSM + HSC.

— Belt Drive Spindle BBT40 [VL - Series]

8,000rpm
10,000rpm / 12,000rpm (Optional)

— Belt Drive Spindle BBT50 [VL - Series]

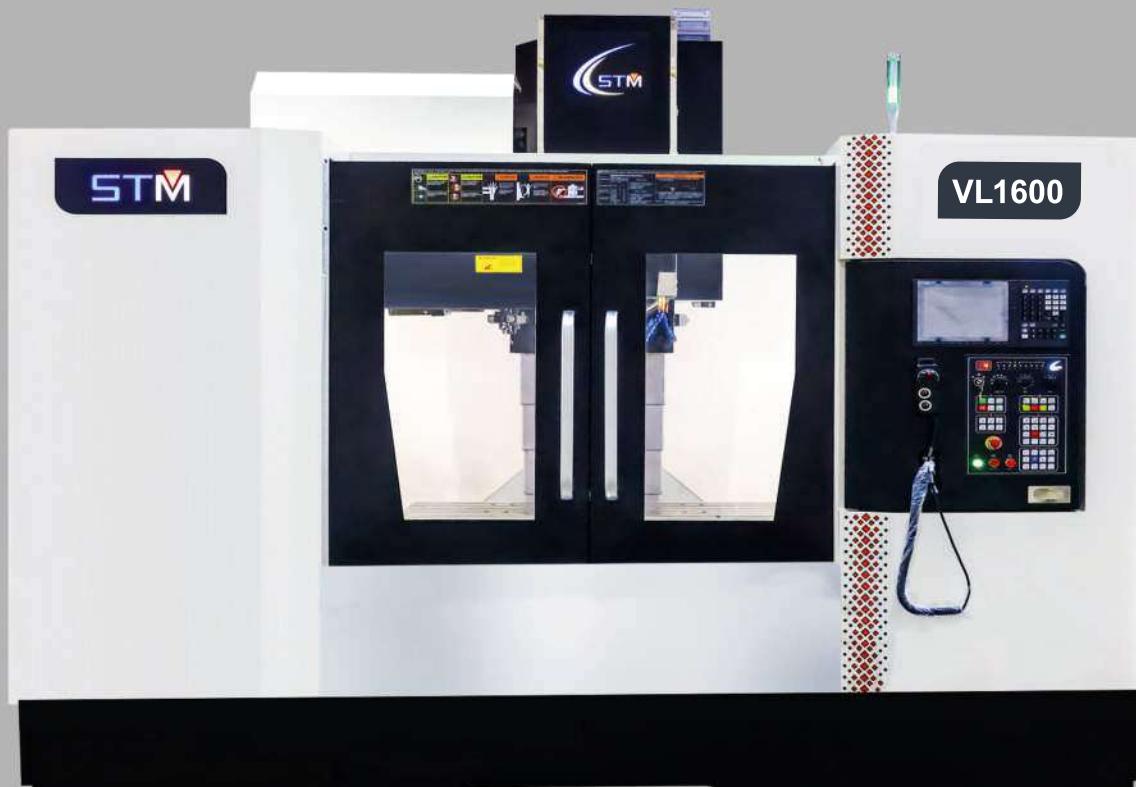
6,000rpm
8,000rpm (Optional)

— Direct Drive Spindle BBT40 [VD - Series]

10,000rpm
12,000rpm / 15,000rpm (Optional)

— Direct Drive Spindle BBT50 [VD - Series]

8,000rpm
10,000rpm (Optional)



VL 1600 - TECHNICAL SPECIFICATIONS

Travel

X, Y, Z travel	1600/800/750mm
X, Y, Z ball screws	C3 50mm
Spindle nose to table surface	130-880mm
Spindle center to telescopic cover	846mm

Table

Table size	1800 * 800mm
T slot (size x qty x dist.)	18mm x 5 x 125mm
Max. table load	2000Kg

Spindle

Taper / Speed	"BBT40-8,000rpm" (Opt: 10,000rpm) "BBT50-6,000rpm" (Opt: 8,000rpm)
Transmission	Belt Type
Guide ways type	LM Roller

Feed Rate

Rapid feed rate of X,Y,Z Axis	30/30/24m/min
Cutting feed rate	1-10,000mm/min

Accuracy as per VDI - DGQ - 3441

Position accuracy	±0.006
Repeatability	±0.003

Automatic Tool Changer

Tool storage capacity	Arm 24T ATC
Max. tool diameter(Arm Type)	Full: 80mm(BT50-120mm) Next empty: 125mm (BT50-230mm)
Max. tool length-Arm Type	(BT40-300mm) (BT50-350mm)
Max. tool weight-Arm Type	(BT40-8Kg) (BT50-15Kg)

CNC Controller & Motor

CNC controller	Mitsubishi M80
Spindle motor	BBT40-11/15kW BBT50-15/18.5kW
Axis motor X,Y,Z	3.5/3.5/4.5kW

Coolant

Pressure	4Kg/cm ²
Coolant pump	0.75Hp
Coolant tank capacity	390L

Air & Power Supply

Air source	5-7Kg/cm ²
Power supply	25kVA

Machine Size

Machine dimensions (L*W*H)	4,655 x 2,880 x 3,175mm
Machine net weight (approx.)	11,000Kg

VL 1600 - FRAME

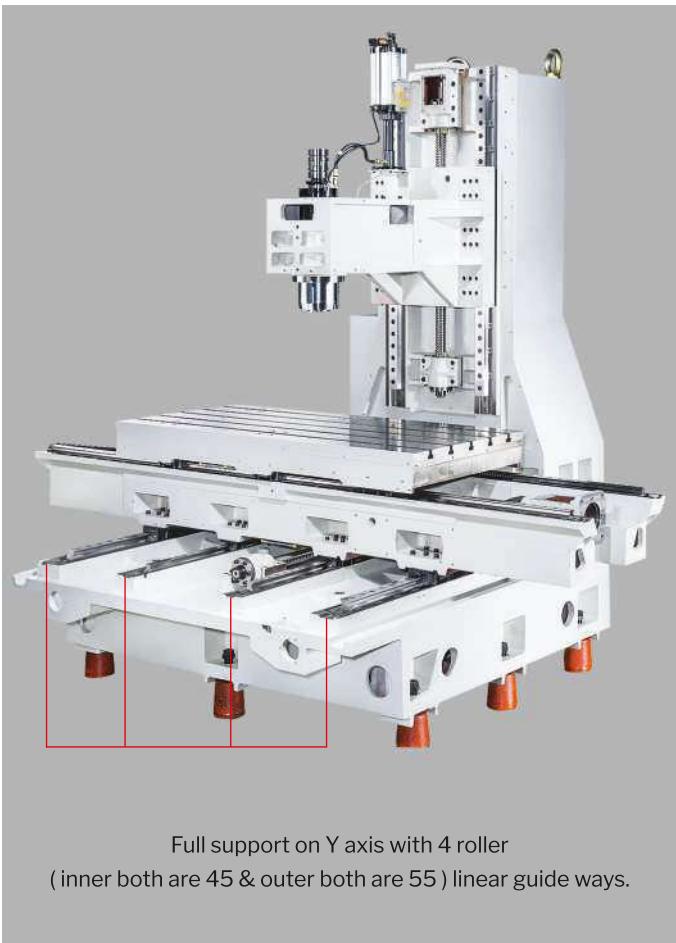
The Roller Type Linear Motion Guideways features Low friction and resistance to stick-and-slip. These qualities make them particularly well-suited for high-speed cutting and finishing.



The quality of the workpiece surface is improved, and the necessity for hand polishing is minimised.

BBT50 (Optional) 6000rpm Belt

BBT#50 spindle is ideal for heavy cutting applications that result in higher material removal rates. In addition, the spindle also features high precision and low thermal growth.



VL / VD 2090

FEATURES

- Unique structure minimises overhang when machining big components and offers good cutting performance.
- **Extremely stable for larger components** under intensive machining.
- The Y axis uses **4 LM Roller Guideways** for reliable performance and dynamics.
- The LM Roller Guideways on all three axes **enhance cutting dynamics**.
- Imported BBT40 Spindle with G1 balanced grade **offers a high finish up to 0.45Ra**.
- The latest Mitsubishi and Fanuc controllers are available.
- The **BBT50 option** increases MRR.
- High efficiency and productivity are assured with 10,000mm/min Feed and 24m/min fast rapid.
- The LM Roller Guideways include multiple shoes on all three axes for stability and smooth movement during HSM + HSC.

Belt Drive Spindle BBT40 [VL - Series]

8,000rpm

10,000rpm / 12,000rpm (Optional)

Belt Drive Spindle BBT50 [VL - Series]

6,000rpm

8,000rpm (Optional)

Direct Drive Spindle BBT40 [VD - Series]

10,000rpm

12,000rpm / 15,000rpm (Optional)

Direct Drive Spindle BBT50 [VD - Series]

8,000rpm

10,000rpm (Optional)



VL 2090 - TECHNICAL SPECIFICATIONS

Travel

X, Y, Z travel	2000/900/850mm
X, Y, Z ball screws	C3 50mm
Spindle nose to table surface	100~950mm
Spindle center to telescopic cover	914mm

Table

Table size	2200 * 900mm
T slot (size x qty x dist.)	18mm x 5 x 150mm
Max. table load	2200Kg

Spindle

Taper / Speed	"BBT40-8,000rpm" (Opt: 10,000rpm) "BBT50-6,000rpm" (Opt: 8,000rpm)
Transmission	Belt Type
Guide ways type	LM Roller

Feed Rate

Rapid feed rate of X,Y,Z Axis	20/20/15m/min
Cutting feed rate	1-10,000mm/min

Accuracy as per VDI - DGQ - 3441

Position accuracy	±0.008
Repeatability	±0.003

Automatic Tool Changer

Tool storage capacity	Arm 24T ATC
Max. tool diameter(Arm Type)	Full: 80mm(BT50-120mm) Next empty: 125mm (BT50-230mm)
Max. tool length-Arm Type	(BT40-300mm) (BT50-350mm)
Max. tool weight-Arm Type	(BT40-8Kg) (BT50-15Kg)

CNC Controller & Motor

CNC controller	Mitsubishi M80
Spindle motor	BBT40-11/15kW BBT50-15/18.5kW
Axis motor X,Y,Z	4.5 / 4.5 / 4.5kW

Coolant

Pressure	4Kg/cm ²
Coolant pump	0.75Hp
Coolant tank capacity	400L

Air & Power Supply

Air source	5-7Kg/cm ²
Power supply	35kVA

Machine Size

Machine dimensions (L*W*H)	5,360x2,950 x 3,360mm
Machine net weight (approx.)	14,500Kg

VL 2090 - FRAME

The Roller Type Linear Motion Guideways features Low friction and resistance to stick-and-slip. These qualities make them particularly well-suited for high-speed cutting and finishing.



The quality of the workpiece surface is improved, and the necessity for hand polishing is minimised.

BBT#50 - 6,000rpm Spindle Belt

BBT#50 spindle is ideal for heavy cutting applications that result in higher material removal rates. In addition, the spindle also features high precision and low thermal growth.



PRECISION MACHINED COMPONENTS

Aerospace



Automobile



Die Mould



Electronics



Energy and Power - Turbine



Medical



Production



Tool Room



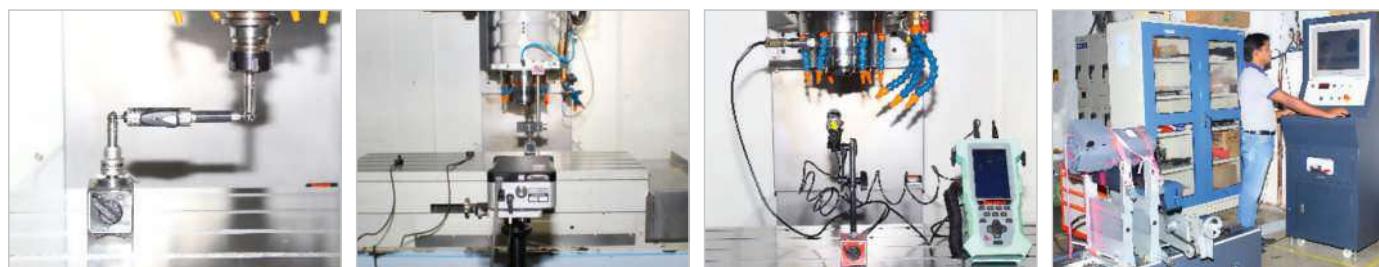
STANDARD ACCESSORIES

1. Mitsubishi M80 Controller	8. Auto Lubrication	15. Spindle Air Blast
2. Full Guarding	9. LED Work Light	16. Tools Box
3. Rigid Tapping	10. Signal Lamp	17. Manuals
4. Coolant Pump	11. Coolant Gun	18. USB/RJ45/RS232 Interface
5. Transformer	12. Air Gun	19. Ring Coolant
6. Handwheel	13. Head Coolant	20. Oil Separator
7. Panel AC	14. Cutting Air	

OPTIONAL ACCESSORIES

1. Fanuc Oi-MF/Siemens 828D SL	11. 4 th Cable Preparation
2. Spindle Chiller	12. 4 th Axis Rotary Table
3. 20/30 Bar Coolant through Spindle	13. Tool Offset Probe (BLUM)
4. Automatic Tool & Workpiece Measurement	14. Work Offset Probe (BLUM)
5. 100/200mm Raiser Block (Selected Model)	15. Half Guarding (std. for VL 1300 / VL 1600 / VL 2090)
6. 24/30T Arm Type ATC	16. 5 th Axis Rotary Table
7. Flush Coolant	17. 5 th Axis Cable Preparation
8. Scrapper Type Chip Conveyer	18. Indexer Preparation
9. Steel Belt Type Chip Conveyer	19. Rear Chip Disposal (Selected Model)
10. Oil Skimmer	

INSPECTION STANDARDS (In house)



Ballbar Test

All machines are inspected by a Ballbar test to ensure machining accuracy.

Circulating - 5µm

Laser Inspection System

All 3 axis are checked by a Laser test to ensure positioning and repeating accuracy.

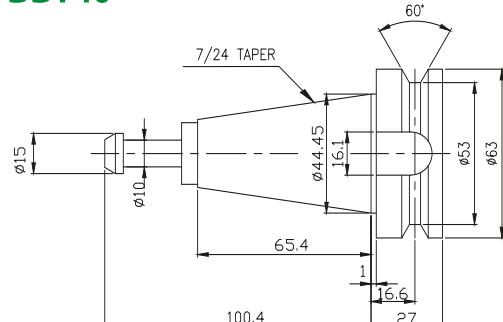
Spindle Noise & Vibration Inspection

All spindles are balanced less than 3microns at 8,000rpm.

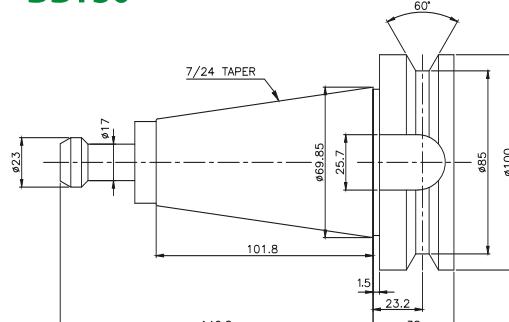
Spindle Motor Balancing

Spindle motors are balanced after assembling pulley and coupling this enhance the life of the spindle and motor.

BBT40



BBT50



OPTIONAL



24/30 Tools Atc



Detron Rotary Table



Tool Length
Measurement System



Chip Conveyor



Through Coolant
(cts - Coolant Through Spindle)



Workpiece
Measurement System



Rear Chip Disposal
(for VL 850 / VL 1050)



Half / Semi Guarding

*Optional On Selected Model

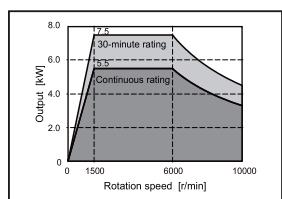


Stand Alone Operating Panel

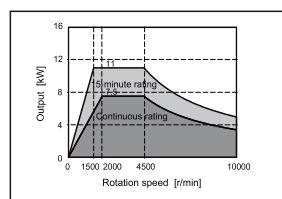
*Optional On Selected Model

SPINDLE SPEED VS TORQUE CHART

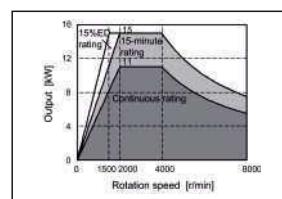
MITSUBISHI



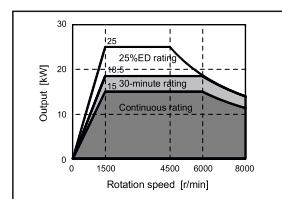
5.5/7.5 KW for VL 510 /
VL 610



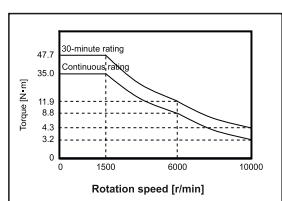
7.5/11 KW for VL 610 VL 850 /
VL 1000 / VL 1050



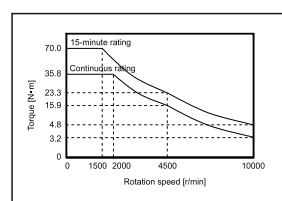
11/15 KW for VL 1050 /
VL 1300 / VL 1600



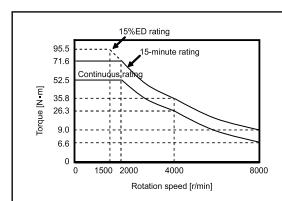
15/18.5 KW for VL 1300 /
VL 1600 / VL 2090



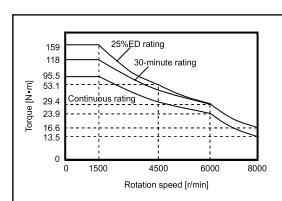
5.5/7.5 KW for VL 510 /
VL 610



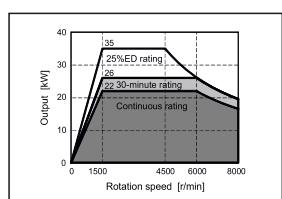
7.5/11 KW for VL 610 / VL 850
VL 1000 / VL 1050



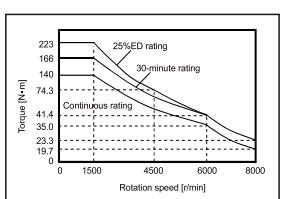
11/15 KW for VL 1050 /
VL 1300 / VL 1600



15/18.5 KW for VL 1300 /
VL 1600 / VL 2090

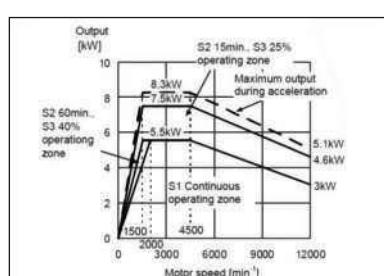


22/26 KW for VL 2090

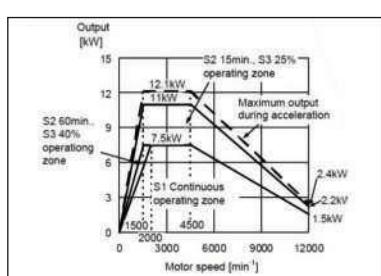


22/26 KW for VL 2090

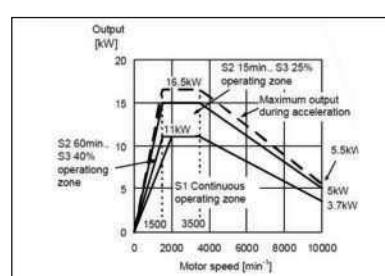
FANUC



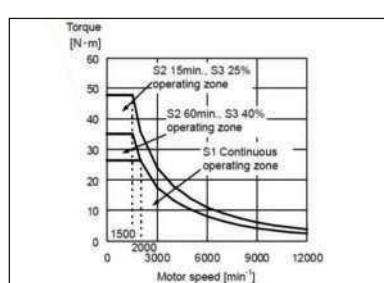
5.5/7.5 KW for VL 610



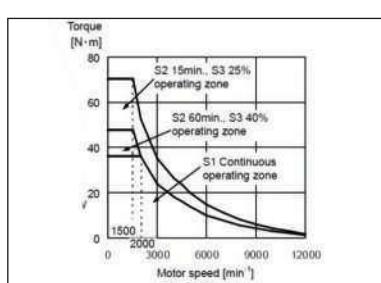
7.5/11 KW for VL 610 /
VL 850 / VL 1050



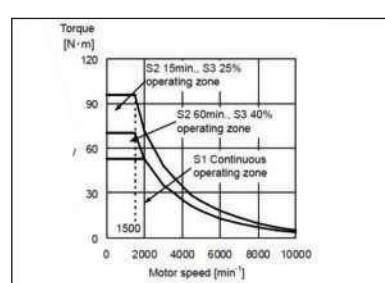
11/15 KW for VL 1050 / VL 1300 /
VL 1600 / VL 2090



5.5/7.5 KW for VL 610



7.5/11 KW for VL 610 /
VL 850 / VL 1050



11/15 KW for VL 1050 / VL 1300 /
VL 1600 / VL 2090



Corporate Office

S&T MACHINERY (P) LTD.

22/1A, Vasanth Nagar, Singanallur, Coimbatore - 641 005.
Tamil Nadu, India.

📞 0422 - 2590810, 2591470, 2593487

✉️ info@stmcnc.com 🌐 www.stmcnc.com



Branches:

**Ahmedabad | Bengaluru | Chennai | Cochin | Coimbatore | Delhi (East)
Delhi (West) | Faridabad | Gurgram | Hosur | Hyderabad | Indore | Kolkata
Ludhiana | Mumbai | Pune | Rajkot | Vapi**

**Due to continuous improvements, we reserve the right to amend any aspect of the
above specifications without further notice.