

# ENVISION



# VERTICAL MACHINING CENTERS



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# ENVIS



# SION

## ENVISION

Dragonflies are expert fliers. They can fly straight up and down, hover like a helicopter.

The flight of the dragonfly is so special that it has inspired engineers who dream of making robots that fly like dragonflies. Nearly all of the dragonfly's head is eye, so they have incredible vision that encompasses almost every angle except right behind them.

The dragonfly's ability to envision its surrounding is what makes it incredible. **STM as a machine tool manufacturer in India draws Inspiration from the dragon fly.** Our ability to envision the machinetool industry's needs has helped us deliver world class technology customized for Indian requirements .

S&T Machinery is a co-manufacturing venture of S&T India and MANFORD Taiwan.

Our brand name **STM** has become synonymous with precision machinery that has been installed across India and a few other Asian countries.



# VL 550 / VL 610

#40 Belt Drive Spindle

**8,000 rpm**

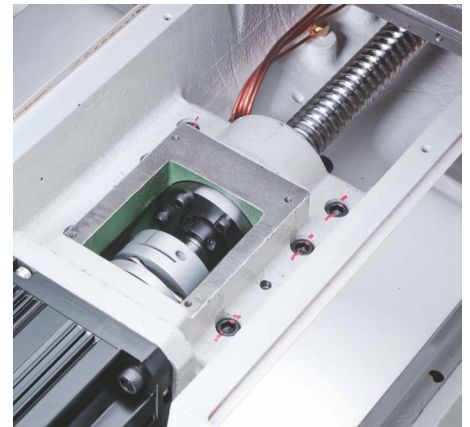
**10,000 rpm / 12,000 rpm (Optional)**

#40 Direct Drive Spindle

**10,000 - 15,000 rpm (Optional)**

#40 Built-in Spindle

**24,000 rpm (Optional)**



Axis motors are direct coupled with ball screws, featuring highly efficient motion control, high response and low noise

# VL610

The compact design of VL-610 has ensured smaller foot print, which is ideal for mould makers job shops where space is constraint. It has many innovative & first-in-class features, each of them contributing to enhanced reliability, performance & productivity.



# VL 800 / VL1000

#40 Belt Drive Spindle

**8,000 rpm**

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

#40 Direct Drive Spindle

**10,000 - 15,000 rpm (Optional)**

## VL 800

The enhanced rigidity of the Spindle head and machine structure is the solid platform for high speed cutting.



Increased inclination of base chute eliminate need of flush coolant



## VL 1050

To match greater accuracy and higher reliability at higher speed, VL-1050 is developed with high dynamic structure support and rapid axis acceleration. Broad base and heavy column improves vibration damping and balance the machine during machining with heavy cutting parameter. Broad table supported by precision LM guideways to offer high load carrying capacity. The series is best suited for high material removal from casting and forging preferred in die mould application.



### Direct Drive Spindle (Optional)

STM Machines can be equipped with Direct Drive Spindle (optional feature) which will have zero transmission loss, stable temperature, low thermal expansion, low noise and low vibration they are suitable for various high speed cutting applications on different materials.



Balanced spindle ensures less vibration during heavy machining



Large flow chip flushing function prevents cutting chips from accumulating inside the chip enclosure, bringing heat out of working area.

# VL1100

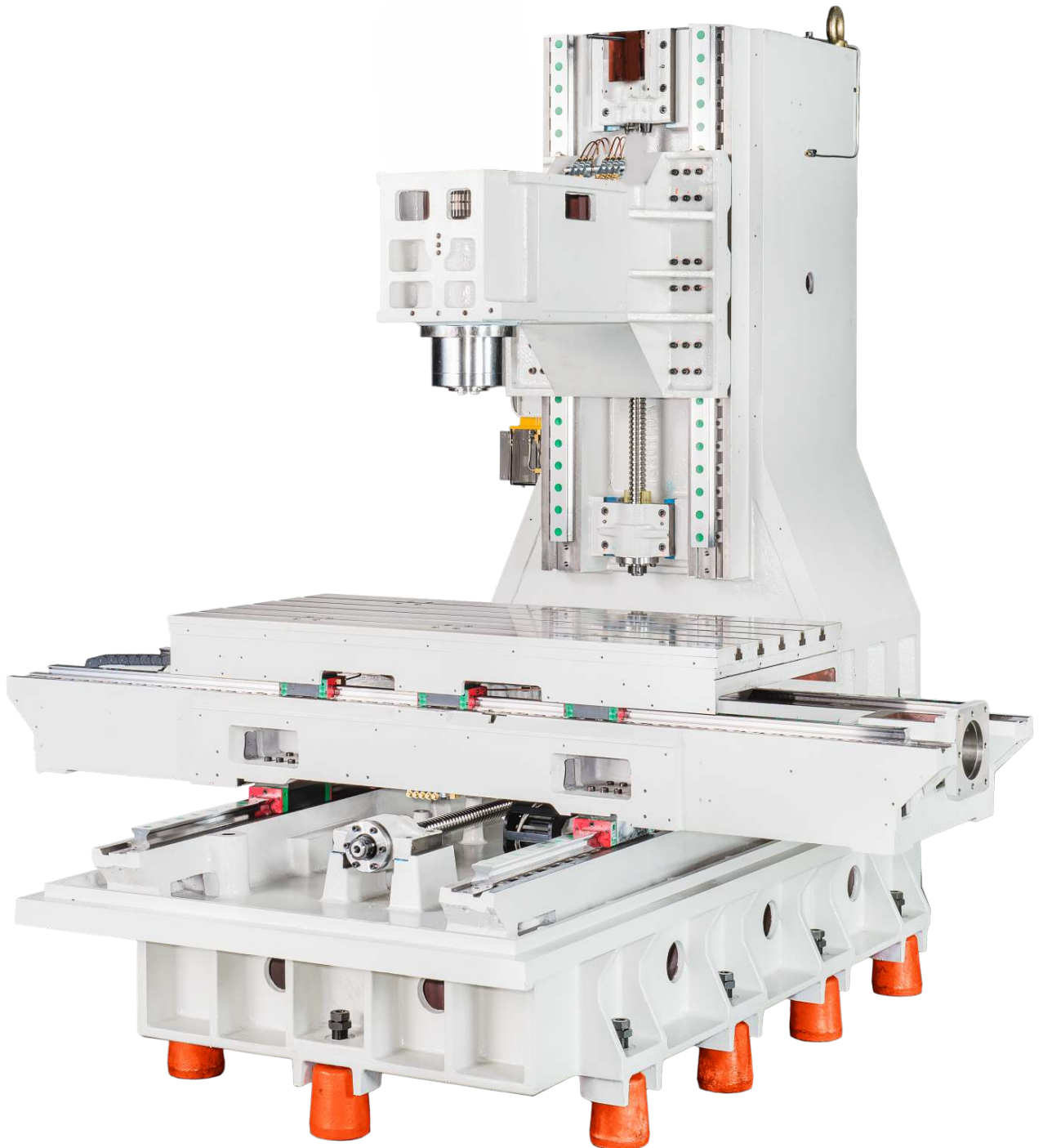
#40 Belt Drive Spindle

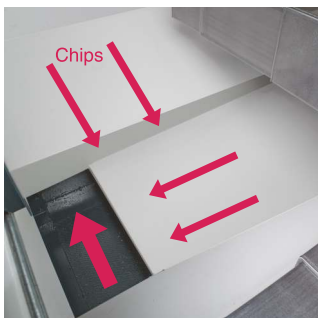
**10,000 rpm**

**12,000 rpm / 15,000 rpm**

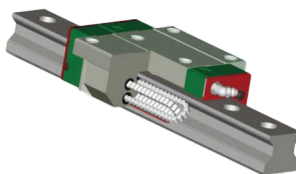
#50 Belt Drive Spindle

**6,000 rpm**





Large flow chip flushing function prevents cutting chips from accumulating inside the chip enclosure, bringing heat out of working area



The Roller Type Linear Motion Guide ways features Low friction and free from stick-and-slip problems. Such the characteristics are especially suitable for high speed cutting and finishing. The quality of workpiece surface is increased; the need of manual polishing of workpiece surfaces is reduced.

# VL 1200

#40 Belt Drive Spindle

**8,000 rpm**

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

#40 Direct Drive Spindle

**10,000 - 15,000 rpm (Optional)**

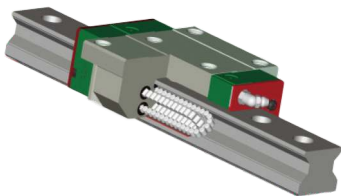
## A UNIQUE FEATURE

The "A" Shaped Machine column which features extra Large conjunction area with the machine base so that the centre of gravity is Lowered. This enhances the cutting stability and damping co-efficient as well as achieving a high surface finish of work pieces.





## Roller Type Linear Guide Ways



The Roller Type Linear Motion Guide ways features Low friction and free from stick-and-slip problems. Such the characteristics are especially suitable for high speed cutting and finishing. The quality of workpiece surface is increased; the need of manual polishing of workpiece surfaces is reduced.



# VL 1300 / VL 1600

#40 Belt Drive Spindle

**8,000 rpm**

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

#40 Direct Drive Spindle

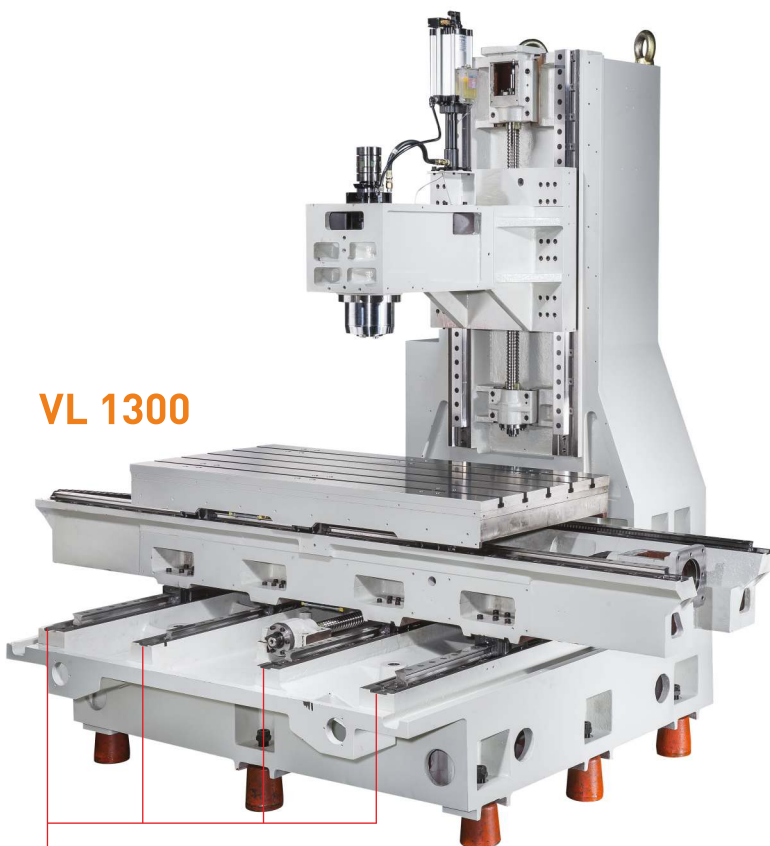
**10,000 - 15,000 rpm**

#50 Belt Drive Spindle

**6,000 rpm**

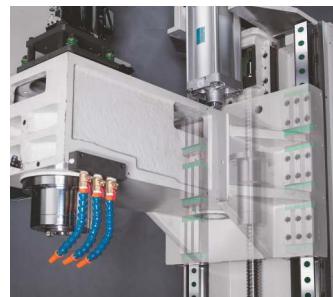


The sufficient depth from spindle center to machine column not only accommodates 700mm Y-axis travel but enables easy access for large diameter face milling cutter.



**VL 1300**

Full support on Y axis with 4 roller linear guide ways.



Six Roller Shoes are employed on the machine column that firmly supports the headstock to perform heavy duty cutting.



The VL1300/1600 employs high precision fine ground ball screws for optimum motion control accuracy.



#### **BT#50, 6000 R.P.M. Spindle (optional)**

BT#50 spindle is ideal for heavy cutting application that results in higher material removal rate. In addition, the spindle also features high precision and low thermal growth.



#### **Double Chip Augers (Optional)**

The Double chip augers deliver chips out of machine during cutting, that prevent chips from depositing in the machine. Another benefit is time saving in chip removal

# VL1690

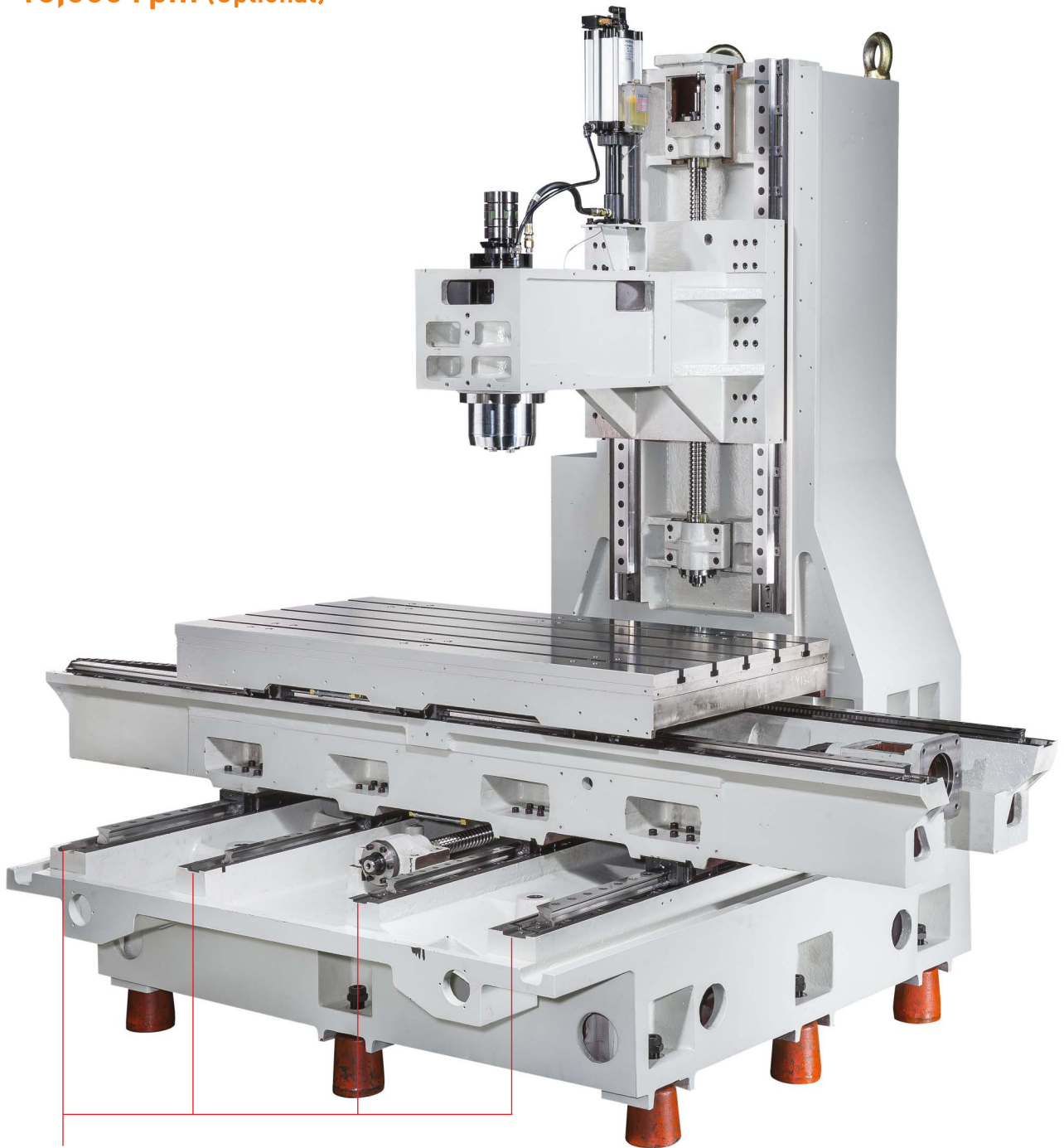
#40 Belt Drive Spindle

**8,000 rpm**

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

#40 Direct Drive Spindle

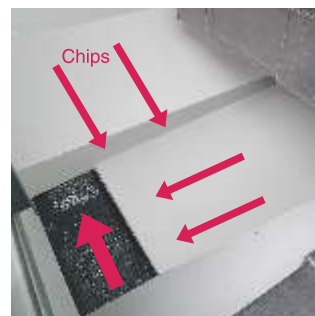
**10,000 - 15,000 rpm (Optional)**



Full support on Y axis with  
4 roller linear guide ways.



The Roller Type Linear Motion Guide ways features Low friction and free from stick-and-slip problems. Such the characteristics are especially suitable for high speed cutting and finishing. The quality of workpiece surface is increased; the need of manual polishing of workpiece surfaces is reduced.



Large flow chip flushing function prevents cutting chips from accumulating inside the chip enclosure, bringing heat out of working area

# VL2090

#40 Belt Drive Spindle

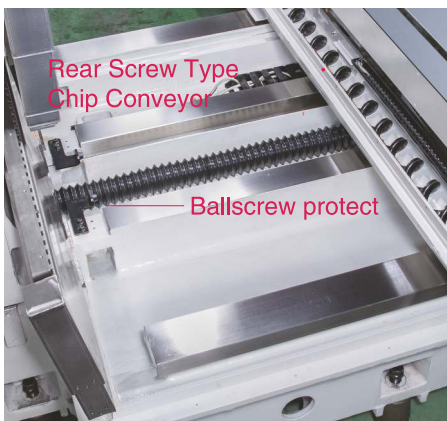
**8,000 rpm**

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

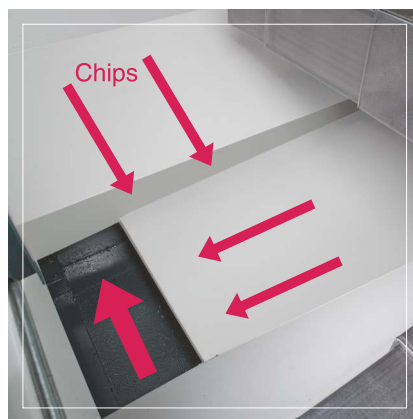
#40 Direct Drive Spindle

**10,000 - 15,000 rpm (Optional)**





Rear screw type chip conveyor and ball screw protect



Large flow chip flushing function prevents cutting chips from accumulating inside the chip enclosure, bringing heat out of working area



# SPECIFICATIONS

Models	VL550	VL610	VL800	VL1000	VL1050
<b>Travel</b>					
X/Y/Z Travel	550/410/460 mm	610/460/510 mm	800/510/510 mm	1,020/510/560 mm	1,050/610/610mm
XYZ ballscrews	C3 32 mm	C3 40 mm	C3 40 mm	C3 40 mm	C3 40 mm
Spindle nose to table surface	130-590 mm	120-630 mm	140-650 mm	150-710 mm	150-760mm
Spindle center to column surface	430 mm	553 mm	556 mm	608 mm	717 mm
<b>Table</b>					
Table Size	600 x 320 mm	800 x 450 mm	950 x 500 mm	1,200 x 500 mm	1,150 x 600 mm
T-Slot(Size/Qty/Dist)	14 mm x 3 x 100 mm	18 mm x 5 x 100 mm	18 mm x 5 x 100 mm	18 mm x 5 x 100 mm	18 mm x 5 x 100 mm
Max.table load	500 kgs	600 kgs	800 kgs	900 kgs	1,000 kgs
<b>Spindle</b>					
Speed	8,000 rpm	8,000 rpm	8,000 rpm	8,000 rpm	8,000 rpm
Optional	(*10,000-24,000 rpm)	(10,000 - 15,000 rpm)	(10,000 - 15,000 rpm)	(10,000 - 15,000 rpm)	(10,000 - 15,000 rpm)
Taper	BT40	BT 40	BT 40	BT 40	BT 40
Spindle Power	3.5/5.5 KW (*5.5/7.5 KW)	5.5/7.5 KW (*7.5/11 KW)	7.5/11 KW (*11/15 KW)	7.5/11 KW (*11/5 KW)	7.5 / 11 KW (*11/15 KW)
Transmission	Belt Drive	Belt Drive	Belt Drive	Belt Drive	Belt Drive
Guide Ways Type	LM Guideways	LM Guideways	LM Guideways	LM Guideways	LM Guideways
<b>Feed Rate</b>					
Rapid feed rate of X/Y/Z Axis	36/36/36 m/min	36/36/36 m/min	36/36/36 m/min	36/36/36 m/min	36/36/36 m/min
Cutting feed rate	1-10,000 mm/min	1-10,000 mm/min	1-10,000 mm/min	1-10,000 mm/min	1-10,000 mm/min
<b>Automatic Tool Changer</b>					
Tool Storage Capacity	Arm 24 nos	Arm 24 nos	Arm 24 nos	Arm 24 nos	Arm 24 nos
Max.tool diameter (Arm Type)	Full: ø80 mm	Full: ø80 mm	Full: ø80 mm	Full: ø80 mm	Full: ø80 mm
	Next Empty: ø150 mm	Next Empty: ø150 mm	Next Empty: ø150 mm	Next Empty: ø150 mm	Next Empty: ø150 mm
Max.tool length (Arm Type)	300 mm	300 mm	300 mm	300 mm	300 mm
Max.tool Weight (Arm Type)	8 kgs	8 kgs	8 kgs	8 kgs	8 kgs
<b>CNC Control &amp; Motor</b>					
CNC Control	Mitsubishi M80(*Fanuc/Siemens)				
Axis Motors X/Y/Z	1.5 kW	2.0 / 2.0 / 3.0 KW	2.0 / 2.0 / 3.0 KW	2.0 / 2.0 / 3.0 KW	2.0 / 2.0 / 3.0 KW
<b>Coolant</b>					
Pressure	10 kg/cm <sup>2</sup>	10 kg/cm <sup>2</sup>	10 kg/cm <sup>2</sup>	10 kg/cm <sup>2</sup>	10 kg/cm <sup>2</sup>
Coolant Pump	0.75 Hp	0.75 HP	0.75 HP	0.75 HP	0.75 HP
Coolant Tank Capacity	180 L	230 L	230 L	230 L	380 L
<b>Air &amp; Power Supply</b>					
Air Source	5-7 kg/cm <sup>2</sup>	5-7 kg/cm <sup>2</sup>	5-7 kg/cm <sup>2</sup>	5-7 kg/cm <sup>2</sup>	5-7 kg/cm <sup>2</sup>
Power Supply	15 KVA	15 KVA	20 KVA	20 KVA	25 KVA
<b>Machine Size</b>					
Machine dimensions (LxWxH)	2,000 x 2,305 x 2,460 mm	2,170 x 2,450 x 2,840 mm	2,600 x 2,310 x 2,750 mm	2,900 x 2,420 x 2,840 mm	3,450 x 2,890 x 3,600 mm
Machine net weight (approx.)	4,000 kgs	4,500 kgs	5,000 kgs	5,500 kgs	6,800 kgs

## STANDARD ACCESSORIES

- Full Guarding
- Rigid Tapping
- Coolant Pump
- Transformer
- Handwheel
- Panel AC
- Auto Lubrication
- LED Work light
- Signal Lamp
- Coolant Gun
- Air Gun
- Head Coolant
- Cutting Air
- Spindle Air Blast
- Tools Box
- Manuals
- USB/RJ45/RS232 Interface



VL1100 HS	VL1200	VL1300	VL1600	VL1690	VL2090
1,100/700/610mm	1,200/610/610mm	1,300/700/700mm	1,600/700/700mm	1,600/900/750mm	2,000/900/850mm
C3 40 mm	C3 40 mm	C3 45 mm		C3 50 mm	C3 50 mm
120~730mm	150~760mm	BT40:130~830 mm ( Opt. BT 50:100-800 mm		150~900mm	150~1000mm
730 mm	717 mm	750 mm		950 mm	975 mm
1,250 x 630 mm	1,300 x 600 mm	1,450 x 700 mm	1,750 x 700 mm	1,850 x 900 mm	2,050 x 900 mm
18 mm x 5 x 100 mm	18 mm x 5 x 100 mm	18 mm x 5 x 100 mm		18 mm x 5 x 145 mm	18 mm x 5 x 145 mm
1,100 kgs	1,200 kgs	1,400 kgs	1,700 kgs	2,000 kgs	2,200 kgs
10,000 rpm	8,000 rpm	8,000 rpm		8,000 rpm	8,000 rpm
(12,000 - 15,000 rpm)	(10,000 - 15,000 rpm)	(10,000 - 15,000 rpm)		(10,000 - 15,000 rpm)	
BT 40	BT 40	BT 40 (Opt. BT50)		BT 40 (Opt. BT50)	BT 40 (Opt. BT50)
7.5/11 KW (*11/15 KW)	7.5 / 11 KW (*11 / 15 KW)	11 / 15 KW (*15 / 18.5 KW for BT50)		15 / 18.5 (*18.5 / 22 KW for BT50)	
Belt Drive	Belt Drive	Belt Drive		Belt Drive	Belt Drive
LM Roller Guideways	LM Roller Guideways	LM Roller Guideways		LM Guideways	LM Roller Guideways
36/36/36 m/min	36/36/36 m/min	30/30/24 m/min		24/24/15 m/min	24/24/15 m/min
1~15,000 mm/min	1~10,000 mm/min	1~10,000 mm/min		1~10,000 mm/min	1~10,000 mm/min
Arm 24 nos	Arm 24 nos	Arm 24 nos	Arm 24 nos	Arm 24 nos	Arm 24 nos
Full: ø75 mm	Full: ø80 mm	Full: ø80 mm	Full: ø80 mm	Full: ø80 mm	Full: ø80 mm
Next Empty: ø150 mm	Next Empty: ø150 mm	Next Empty: ø150 mm	Next Empty: ø150 mm	Next Empty: ø150 mm	Next Empty: ø150 mm
300 mm	300 mm	300 mm	300 mm	300 mm	300 mm
8 kgs	8 kgs	8 kgs	8 kgs	8 kgs	8 kgs
Mitsubishi M80(*Fanuc/Siemens)					
3.5 / 3.5 / 3.5 KW	3 / 3 / 3 KW	3 / 3 / 3 KW		7.0 / 7.0 / 7.0 KW	7.0 / 7.0 / 7.0 KW
10 kg/cm <sup>2</sup>	10 kg/cm <sup>2</sup>	10kg/cm <sup>2</sup>		10 kg/cm <sup>2</sup>	10 kg/cm <sup>2</sup>
0.75 HP	0.75 HP	0.75 Hp		0.75 HP	0.75 HP
270 L	380 L	490 L		400 L	400 L
5-7 kg/cm <sup>2</sup>	5-7 kg/cm <sup>2</sup>	5-7 kg/cm <sup>2</sup>	5-7 kg/cm <sup>2</sup>	5-7 kg/cm <sup>2</sup>	5-7 kg/cm <sup>2</sup>
25 KVA	25 KVA	25 KVA	25 KVA	25 KVA	35 KVA
3,400 x 2,550 x 2,950 mm	3,450 x 2,890 x 3,600 mm	3,650 x 2,915 x 3,026 mm	4,400 x 2,800 x 3,200 mm	5,800 x 4,000 x 3,650 mm	5,800 x 4,000 x 3,650 mm
7,800 kgs	7,500 kgs	8,850 kgs	11,000 kgs	17,500 kgs	18,500 kgs

## OPTIONAL ACCESSORIES

- Fanuc Oi-MF/Siemens 828D SL
- Spindle Chiller
- 20 Bar Coolant through Spindle
- 16/20T Armless ATC (Selected Model)
- 200 mm Raiser Block (Selected Model)
- TPM
- 20/24/30T Arm Type ATC
- Flush Coolant
- Scraper Type Chip Conveyor
- Screw Type Chip Conveyor
- Dual Type Chip Conveyor
- Automatic Grease Lubrication
- Oil Skimmer
- 4th Axis Cable Preparation
- 4th Axis Rotary Table
- Automatic Tool & Workpiece Measurement
- CE Safety

# VD510

## HIGH DYNAMICS HIGH EFFICIENT

For the part production industry every second counts VD510 is the right answer with higher rapid rates and high spindle rpm, non cutting time is greatly reduced resulting in lesser cycle time.

### BT 30 Direct Drive Spindle

10,000 rpm (Standard)

12,000 rpm (Optional)

20,000 rpm (Optional)



Rapid X & Y Axis : 48m/min  
Z Axis : 60m/min  
Spindle : 10,000 rpm



DIRECT DRIVE  
SPINDLE



REAR CHIP COLLECTOR



CHIP AUGER



SHOWER COOLANT



GREASE LUBRICATION



14 TOOL SERVO DRIVEN ATC

## TP510 APC

For high volume of components, machine is equipped with Rotary type Pallet Changer with reduced component handling time.

### BT 30 Direct Drive Spindle

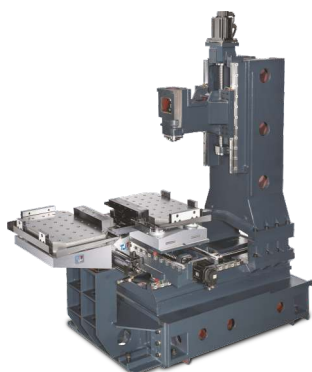
10,000 rpm (Standard)

12,000 rpm (Optional)

20,000 rpm (Optional)



Rapid X & Y Axis : 48m/min  
Z Axis : 60m/min  
Spindle : 10,000rpm



ROTARY PALLET CHANGER



REAR CHIP COLLECTOR



DUAL CHIP AUGER (OPT.)



HEAD COOLANT



14 TOOL SERVO  
DRIVEN ATC

## VL610 APC

For high volume of components, machine is equipped with hydraulic clamping with rack and pinion rotary type pallet changer with reduced pallet changing time.

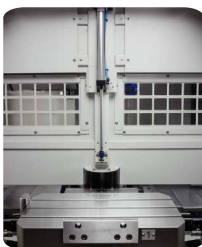
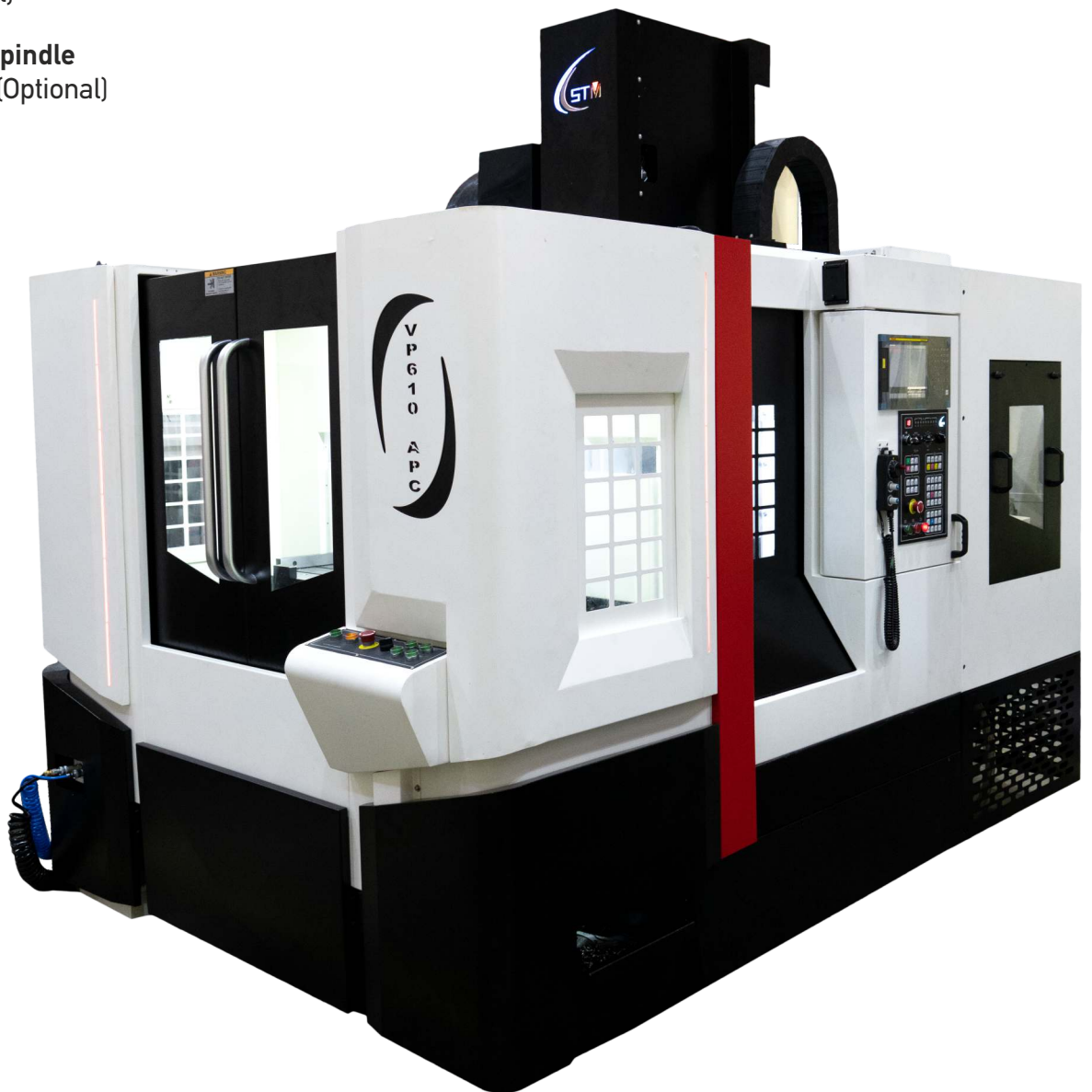
### BT 40 Belt Drive Spindle

8,000 rpm (Standard)

10,000 rpm (Optional)

### BT 40 Direct Drive Spindle

10,000 - 15,000 rpm (Optional)



AUTO SHIELD DOOR  
FOR APC



AUTO PALLET CHANGER



COOLANT FLUSH DEVICE  
FOR APC SHIELD



LINEAR MOTION  
GUIDEWAYS

# SPECIFICATIONS



SPECIFICATION	VD510	TP510 APC	VL610 APC
<b>Travel</b>			
X/Y/Z Travel	510 / 406 / 330 mm	510 / 400 / 330 mm	550/400/460 mm
X Y Z Ball Screws	C3 32 mm	C3 32 mm	C3 32 mm
Spindle Nose To Pallet Surface	170 - 500 mm	200~530 mm	120~580 mm
Spindle Center To Column Surface	460 mm	429 mm	510 mm
Table Size	650 X 400 mm	600 x 400 mm	600 x 400 mm
T-Slot (Size / Qty / Dist.)	14mm x 3 x 125 mm	14mm x 3 x 100 mm	14mm x 3 x 100 mm
Max. Table Load	300 kgs	250 kgs	200 kgs x 2 Pallet
<b>Spindle</b>			
Speed	10,000 (Opt.12,000) rpm	10,000 (Opt. 12,000 / 20,000) rpm	8,000 (Opt. 10,000/15,000 ) rpm
Taper	BT 30	BT 30	BT 40
Transmission	Direct Drive	Direct Drive	Belt Drive (Opt. Direct Drive)
<b>Feed Rate</b>			
Rapid Feed Rate X,Y,Z Axes	48/48/60 m/mm	48/48/60 m/mm	36/36/36 m/mm
Cutting Feed Rate	1~12,000 mm/min	1~20,000 mm/mm	1-10,000 mm/mm
Automatic Tool Changer Type	Disc Type *(Servo Driven)	Disc Type *(Servo Driven)	Arm Type
Tool Storage Capacity	14 Tools	14 tools (Opt. 21 Tools)	24 Tools
Max. Tool Diameter	Ø 80 mm	Ø 80 mm	Ø 80 mm
Max. Tool Length	200 mm	200 mm	300 mm
Max. Tool Weight	3 kgs	3 kgs	8 kgs
CNC Controller	Mistubishi M80 (*Fanuc / Siemens)		
Spindle Motor	3.5 / 5.5 kW	3.5/5.5 kW	5.5 / 7.5 (*7.5/11 )
Axis Motors	1.5 / 1.5 / 3.0 kW	1.5 / 1.5 / 3.0 kW	2.0 / 2.0 / 3.0 kW
<b>Coolant</b>			
Pressure	10 kg/cm <sup>2</sup>	10 kg/cm <sup>2</sup>	10 kg/cm <sup>2</sup>
Pump Power	0.75 HP	0.75 HP	0.75 HP
Tank Capacity	150 L	150 L	150 L
Power Supply	15 KVA	15 KVA	20 KVA
<b>Machine Size</b>			
Machine Dimensions (LxWxH)	1600 x 2150 x 2320 mm	3197 x 1650 x 2435 mm	2000 x 2960 x 2740 mm
Machine Weight	2800 kgs	3500 kgs	4200 kgs

## STANDARD ACCESSORIES

(\* optional)

- Air Gun
- Panel AC
- Work light
- Coolant Gun
- Transformer
- Signal Lamp
- Full Guarding
- Rigid Tapping
- Remote Handwheel
- Manuals
- Tools Box
- Cutting Air
- Spindle Air Blast
- Head Coolant system
- USB/RJ45/RS232 Interface
- Electronic Counter Balance
- Automatic Centralized Lubrication System

## OPTIONAL ACCESSORIES

- Oil Skimmer
- Flush Coolant
- Rotary Indexer
- Oil Mist Collector
- Spindle Oil Cooler
- 200 mm Raiser Column
- Dual Type Chip Conveyor
- Spindle Power 5.5/7.5 KW
- Scraper Type Chip Conveyor
- Steel Belt Type Chip Conveyor
- Coolant Through Spindle 30 Bar
- Automatic Workpiece Measurement
- Automatic Tool Length Measurement
- 4th Axis Rotary table with cable preparation

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



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

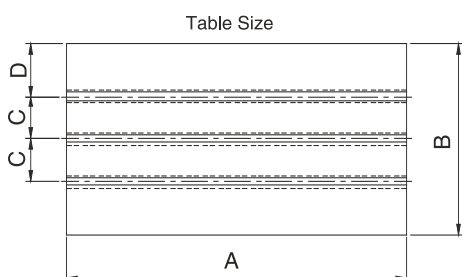


All spindles are balanced  
less than 3μ at 8000 rpm
































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

Technical drawing of a mechanical part, likely a valve or fitting, showing dimensions and a 7/24 taper. The drawing includes a side view and a cross-sectional view. Key dimensions include diameters ( $\phi 15$ ,  $\phi 10$ ,  $\phi 44.45$ ,  $\phi 53$ ,  $\phi 63$ ), lengths (100.4, 65.4, 27, 6.6, 2), and a  $60^\circ$  angle. A 7/24 taper is indicated on the conical section.



Technical drawing of a tapered plug (50#). The drawing shows a side view of the plug with a 7/24 TAPER. Key dimensions include: overall length 146.8, outer diameter at the base 42.3, outer diameter at the top 49.85, taper length 101.8, and a 60° angle at the top. A detail view shows the top of the plug with a 60° angle and a 23.2 diameter.

MODEL	A	B	C	D	T-slot Q'ty
VL 510	600	320	100	60	3
VL610	800	450	100	125	3
VL800	1000	500	100	50	5
VL1000	1200	500	100	50	5
VL1050	1150	600	100	100	5
VL1200	1300	600	100	100	5
VL1300	1450	700	125	100	5
VL1600	1750	700	125	100	5

CHIP CONVEYOR ▼	TYPES OF CHIPS ►	Curly Iron	Metallic	Non-Curly	Foundry	Curly Aluminum	Aluminum	Brass	Non-Metallic
Steel belt / Standard Model									
Scraper Type / Standard model (Suitable for dry chip under 60mm)									
Scraper Type / Precision model (Suitable for chips between 2 - 60 mm)									
Scraper Type / Magnetic Model (Suitable for dry chip under 60mm)									
Scraper Type / Precision Magnetic Model (Suitable for chips between 2 - 60 mm)									
Roller Type Tiny (Internal / External) (Suitable for Chip under 100mm)									
Dual Belt Type									

## OPTIONAL



24 TOOLS ATC



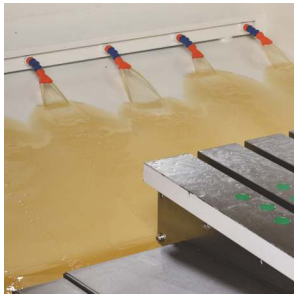
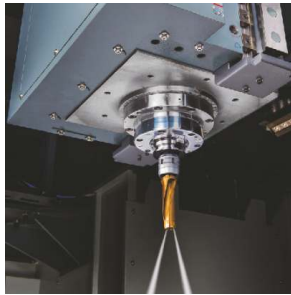
ROTARY TABLE



RING COOLANT

TOOL LENGTH MEASUREMENT  
SYSTEM

CHIP CONVEYOR

FLUSH  
COOLANTTHROUGH COOLANT (CTS -  
COOLANT THROUGH SPINDLE)WORK PIECE  
MEASUREMENT SYSTEM

GREASE LUBRICATION

REAR CHIP DISPOSAL ON  
VL800 MACHINES

Semi Guarding

\*Optional Selected Model

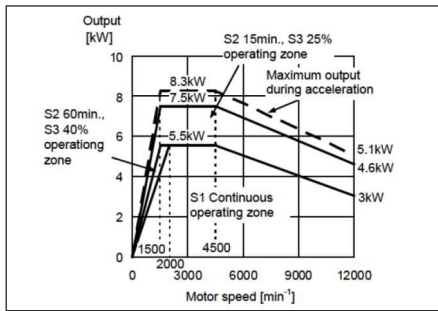


Stand Alone Operating Panel

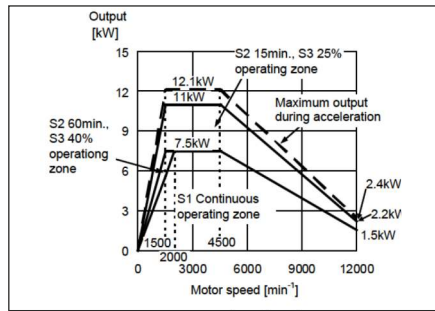
\*Optional Selected Model

# SPINDLE SPEED VS TORQUE CHART

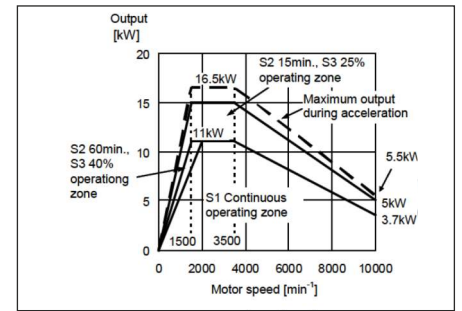
## FANUC



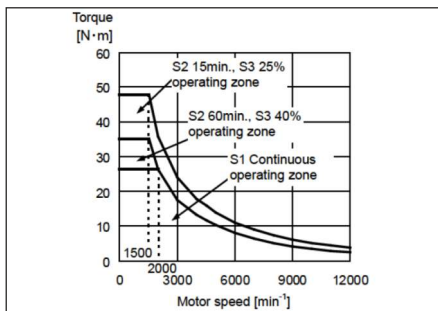
5.5/7.5 KW for VL550



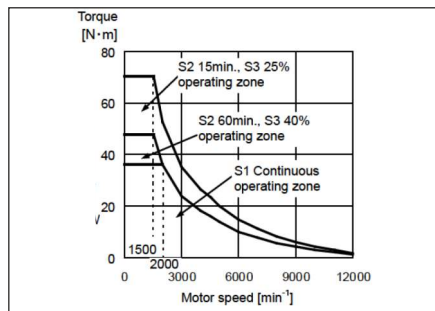
7.5/11 KW for VL 610 / VL 800 / VL 1000 / VL1050



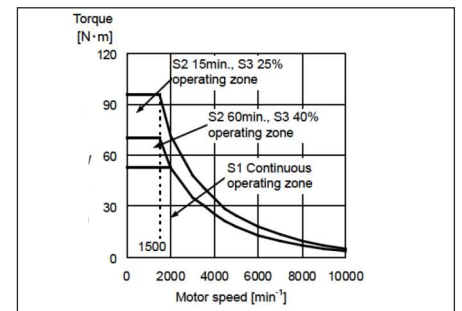
11/15 KW for VL 1100 / VL 1200 / VL 1300 / VL 1600 / VL 1690 / 2090



5.5/7.5 KW for VL550

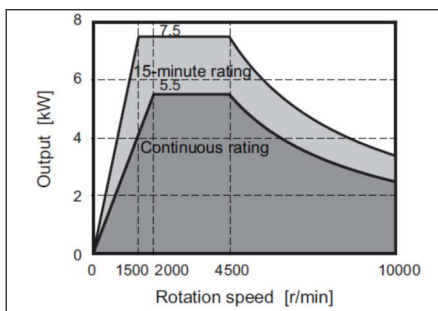


7.5/11 KW for VL 610 / VL 800 / VL 1000 / VL1050

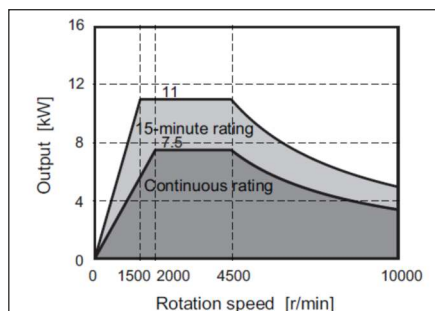


11/15 KW for VL 1100 / VL 1200 / VL 1300 / VL 1600 / VL 1690 / 2090

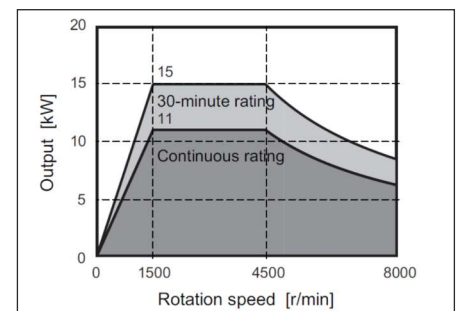
## MITSUBISHI



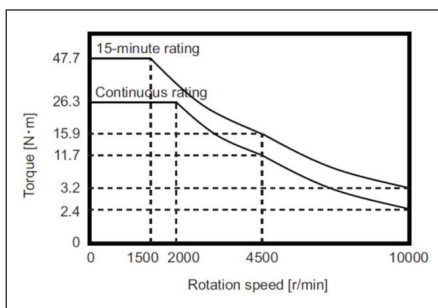
5.5/7.5 KW for VL550



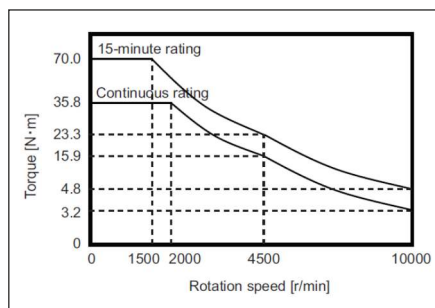
7.5/11 KW for VL 610 / VL 800 / VL 1000 / VL1050



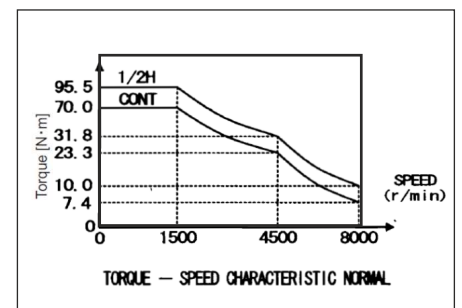
11/15 KW for VL 1100 / VL 1200 / VL 1300 / VL 1600 / VL 1690 / 2090



5.5/7.5 KW for VL550



7.5/11 KW for VL 610 / VL 800 / VL 1000 / VL1050



11/15 KW for VL 1100 / VL 1200 / VL 1300 / VL 1600 / VL 1690 / 2090

## CORPORATE OFFICE

### S & T MACHINERY PVT LTD

**Corporate Office:** 22, Vasanth Nagar, Singanallur, Coimbatore - 641 005. INDIA.

**Factory:** 60/4, 2,3, Mahatma Gandhi Road, Near SIHS Colony,  
Coimbatore-641014. Phone No 0422 - 2590810

## S&T SALES & SERVICE NETWORK

### AHMEDABAD

Shed No.115,Parisikhar Cottage Industrial Estate, Part - I, Near Ramol Toll Plaza, Ramol, SP Ring Road, Ahmedabad (East) - 382 449.  
Phone No: 9909010389

### BENGALURU

Site No. 12 1st Main, 1st Cross, Sharadhamba Nagar Jalahalli, Bangalore: 560 013.  
Phone No: 9901213827

### CHENNAI

Bo: 12/30 4th Pillayar Koil Street, Ekkatuthangal, Chennai -97.  
Phone No : 9789989655

### COIMBATORE

1st Floor, 22, Vasanth Nagar, Singanallur, Coimbatore - 641 005. INDIA.  
Phone No: 9842257363

### HOSUR

No.4/318, Moovendar Nagar, Bagalur Road, Hosur- 635 109.  
Phone No : 9972500090

### HYDERABAD

Plot no: 175, Prashanthi Nager, I.E, Kukkatpully, Hyderabad - 500 072.  
Phone No : 9000012586

### KERALA

40/90/F, Second Floor, Pimco Tower Eloor Road, Appolo Tyres Junction, North Kalamassery, Ernakulam-683104.  
Phone No : 9947201511

### KOLKATA

Gitangali Apartment, Flat no-6-C-3, 406 Garfa Main Road, Kolkata-700075.  
Phone No: 8420017311

### PUNJAB

Chandigarh  
Phone No: 9988426614

### MUMBAI

Unit No. 220, 2nd floor, Blue Rose Industrial Estate, Western Express Highway, Borivali East, Mumbai 400 066.  
Phone No : 7506418256

### PUNE

No: 17, Jai Tulje Bhavani Industrial Premises, Plot No: bg- 74(a) Midc, Bhosari, Pune- 411039.  
Phone No : 9970764621

### VAPI

18, 1st Floor, Mohid Tower, Beside HDFC Bank, Daman Road Chala. Vapi, Gujarat. 396191.  
Phone No : 9099096705

### NOIDA

C/o S&T Welcare pvt Ltd B-40, sector -65 noida -201307  
Phone No : 9718883008

### FARIDABAD & GURGAON

3A/169 NIT Faridabad -121001  
Phone No : 9718883196, 9718889219



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