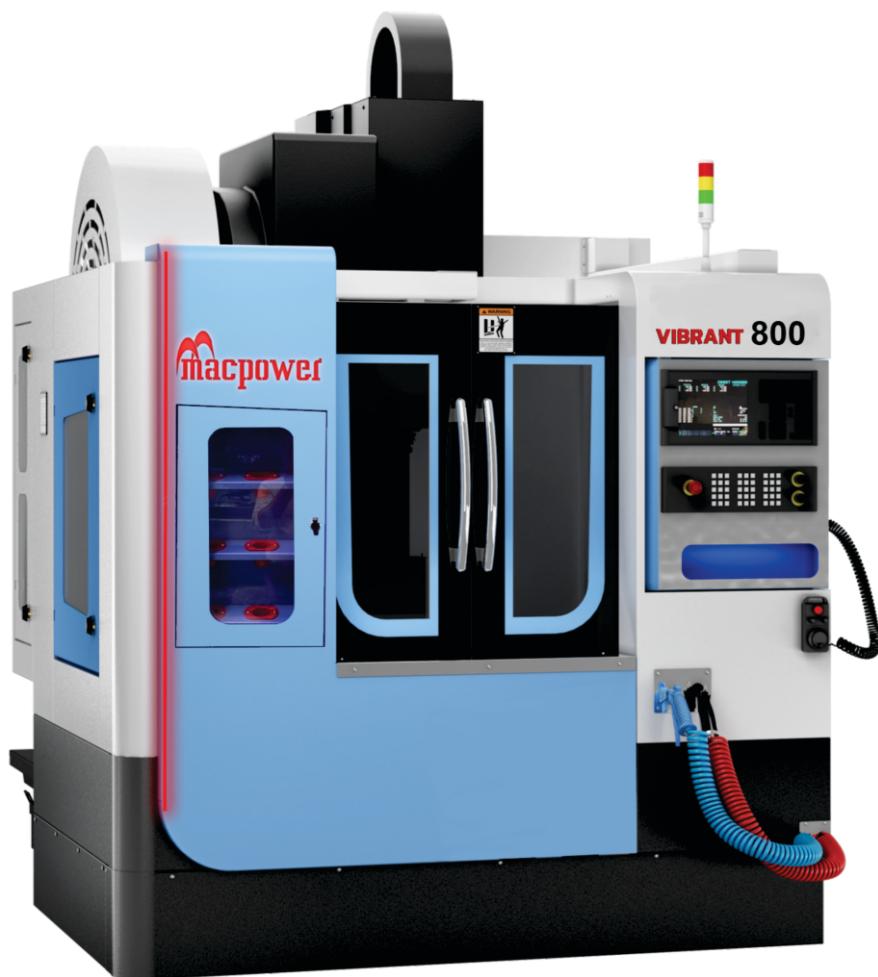




VERTICAL MACHINING CENTER



VIBRANT SERIES

ONE NUMBER - MULTI SOLUTIONS

FOR SALES INQUIRIES & CUSTOMER CARE
7998-7998-16



www.macpowercnc.com



WHY MACPOWER ?

- Totally In-house Manufacturing Capability
- Choose from wide range of products
- Effective "Cost to Performance" solution provider
- Believing in partnership with customers and not as buyer and seller
- Efficient after sales service back up
- Availability of spares
- Emphasis on continuous R & D & Training
- Flexibility & Openness to manufacture customized machines
- Fast decision making process
- Macpower is a company with a modern outlook - giving you contemporary solutions through time-tested expertise.

COMPANY PROFILE

Macpower CNC Machines Limited (Macpower) welcomes to the world of machining excellence. More than one and half decades of experience and the vision towards creating a niche has transformed Macpower into India's fastest growing CNC Manufacturing Company. This meteoric growth is a result of Macpower's vision of par excellence to manufacture state of the art products, adopting the best in technology.

In 2003, Macpower Group started Macpower CNC Machines Limited, CNC Machines manufacturing unit in an area of around 4 acres and has grown to almost double thereafter with 2 units in operation at present situated at Metoda G. I. D.C., Rajkot (India). Macpower is registered to ISO 9001(Design), a universally accepted quality assurance designation and MSE-1 certification for highest financial strength and operational ability by CRISIL.

The modern headquarters contains a spacious State of the Art Machine Shop, Totally Equipped Assembly Shops, All Modern Measuring and Testing Equipments, Technologically Advanced Sheet Metal Unit and One of it's Kind Powder Coating Plant make Macpower Totally In-House Manufacturing Company.

Macpower is currently offering widest range of **9** different product categories namely Turning Center, Twin Spindle Turning Center, VMC, Twin Spindle VMC, TurnMill Center, HMC, VTL, DTC, Grinder with **27** versions and **60+** different models serving **27** industry segment world wide with **8000+** installations.

Sales & Service Team presence in **37** cities across the country with **107** qualified engineers and **9** business associates; establishment of multiple regional offices and technology centers across the country to have better connect with our valued customers.

INFRASTRUCTURE



MACHINE SHOP AREA



ASSEMBLY AREA



POWDER COATING AREA



SHEET METAL AREA

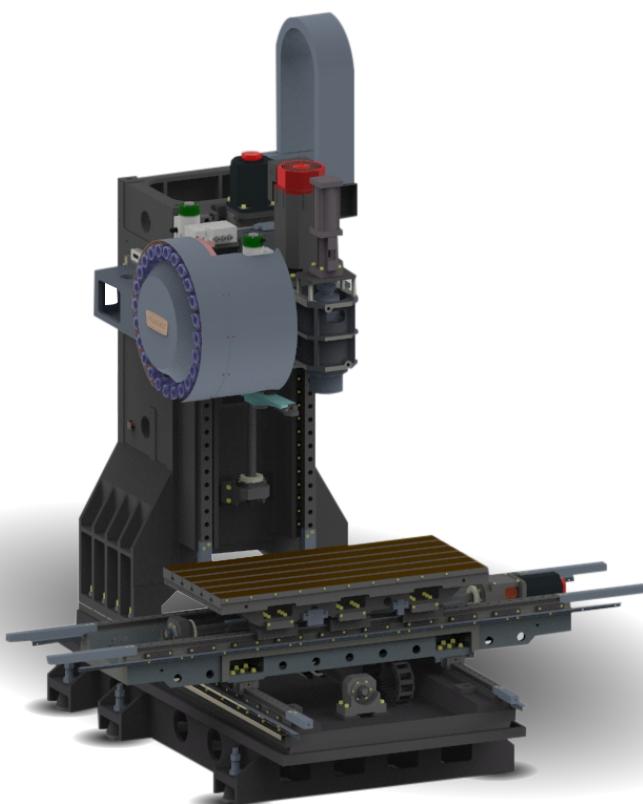


SPINDLE ASSEMBLY AREA



RESEARCH AND DEVELOPMENT

RIGID STRUCTURE



Sturdiness of the foundation determined the soundness of the structure. The major construction parts are based on FG260 grade cast iron, to ensure optimum harmonic stability and maximum damping during cutting. Base and column are reinforced with heavy ribs for stability and least distortion. The uniform dense, fine graded casting distributed stress and heat throughout the machine structure.

HIGH CAPACITY ACCURATE SPINDLE



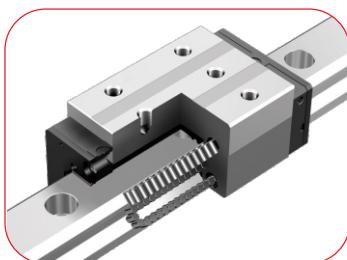
The precision cartridge spindle unit having three super precise angular contact bearings at front and two at rear end, this combination ensures higher stiffness. Bearings are perfectly aligned and grease packed for long life. Spindle is indirectly driven by high speed AC spindle motor with reduced pulley ratio, to achieve high spindle torque and optimal performance of machine.

DOUBLE-ANCHORED BALL SCREWS



Ball Screws are directed by direct coupled AC servo motor with flexible coupling. This greatly improves positioning accuracy, and provides more accurate threading and contouring. Ball Screws are anchored at both ends and inspected for parallelism with axis guide. Pre-loaded ball nuts eliminate backlash.

HEAVY DUTY ROLLER LM GUIDEWAYS



All axes are furnished with precise and heavy load capacity re-circulating roller guide ways enabling high acceleration-de acceleration and hence better rigidity.

RELIABLE ATC



Twin arm type side mounted ATC driven by screw and cam speed up tool changing time with random access and resulted in reduce cycle time and higher productivity. Each subsystem is tested for innumerable cycle at every stage to enhance reliability.

ADVANCE INSPECTION TECHNOLOGY



Laser Calibration is carried out to insure the linear accuracy, providing accurate compensation for pitch and backlash. The machine facilities the attainment of positional accuracy up to 0.01 mm / 300 mm and repeatability accuracy up to 0.007 mm.

PRODUCTIVITY ENHANCEMENT OPTIONS

4TH & 5TH AXIS CAPABILITY



For maximum application and cutting flexibility, usage of 4th Axis or 5th Axis rotary table with high resolution feedback system can be opted. These rotary tables can be programmed through the control system, that can be used to increase productivity by multiple side workpiece in single setting

COOLANT THROUGH SPINDLE (CTS)



This option provides high pressure filtered coolant directly to the cutting edge minimizing heat distractions, ensuring maximum productivity with today's high performance tooling. High recommended for jobs demanding deep boring and tapping.

GEAR BOX



For application requiring high cutting for harder material or high cutting speed for soft materials, 2-speed gearbox need to be opted. These gearbox provide higher cutting torque at lower RPM with auto shifting mechanism keeping power constant. Such gearbox get directly coupled to main spindle motor giving production flexibility without disturbing precision.

FLUSH COOLANT SYSTEM

Efficient chip remove is one of the important factor for better productivity with un-interrupted machining operations can be efficiently enhanced by selections of flush coolant system, high pressure coolant splash via flexible nozzles can be targeted to area of maximum chip accumulation. such a system enhance reduction in machining down time to operate and hence positively effecting productivity.

CHIP CONVEYOR



Machine can be mounted with chip conveyor option for efficient Swarf removal for entire series. such type of arrangements is very much useful for applications requiring continues machining hours having much metal removal. with help of downtime can be reduce drastically.

PROBES



A wide choice of spindle and surface-sensing probes as tool & job probes with infrared / radio laser transmission technology are available for increased spindle utilization, work piece setup and work piece measurement.

VIBRANT 400

VERTICAL MACHINING CENTER

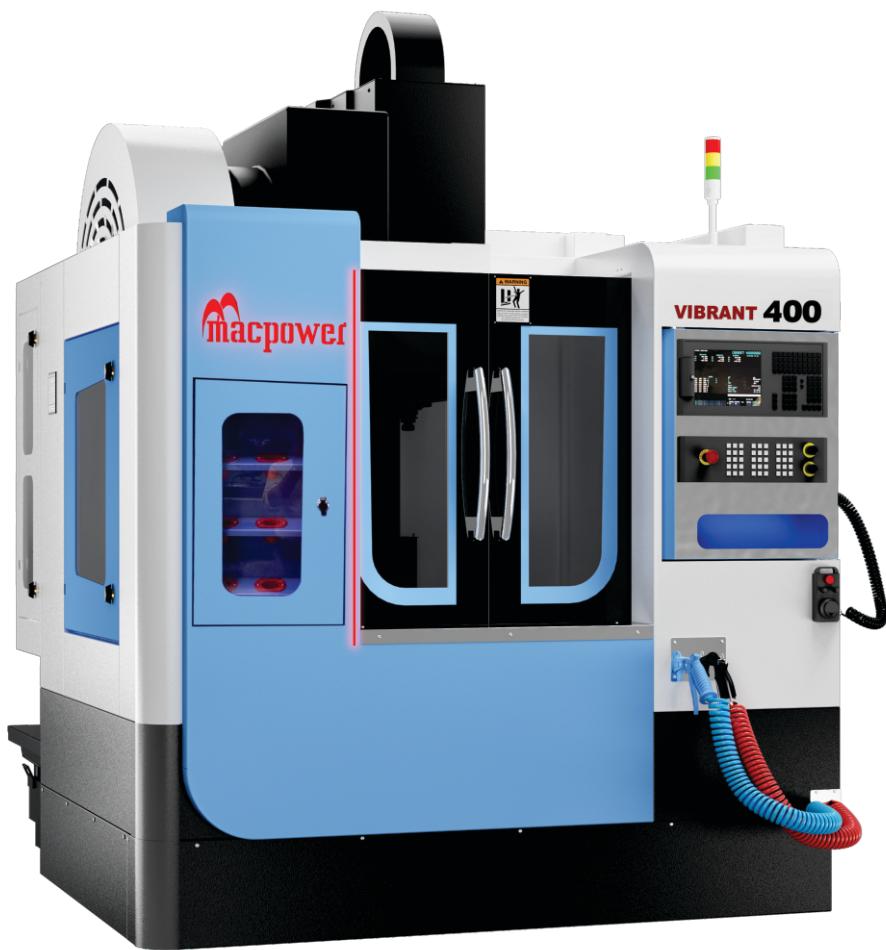
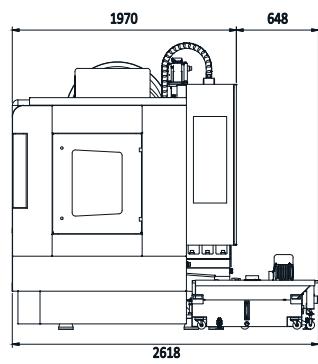
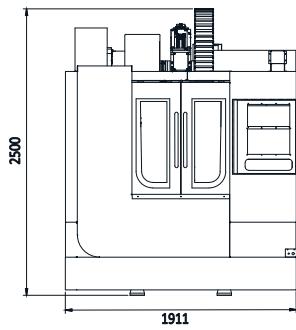


TABLE SIZE	MM	300x600
AXIS STROKE (X / Y / Z)	MM	410 / 300 / 300
RAPID FEED RATES X/Y/Z AXIS	M/MIN	30 / 30 / 30
LOAD CAPACITY	KG	250
SPINDLE	-	BT 40
SPINDLE POWER (FANUC)	KW	5.5 / 7.5
WEIGHT (APPROX)	KG	3150
DIMENSIONS (APPROX) (WXDXH)	MM	1911x2618x2500

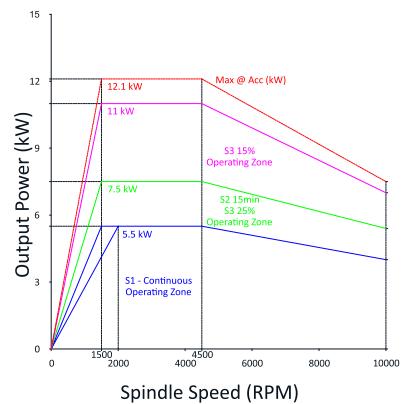
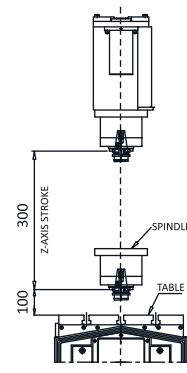
COMPONENTS



MACHINE DIMENSIONS



MACHINING RANGE & POWER DIAGRAM



VIBRANT 500

VERTICAL MACHINING CENTER

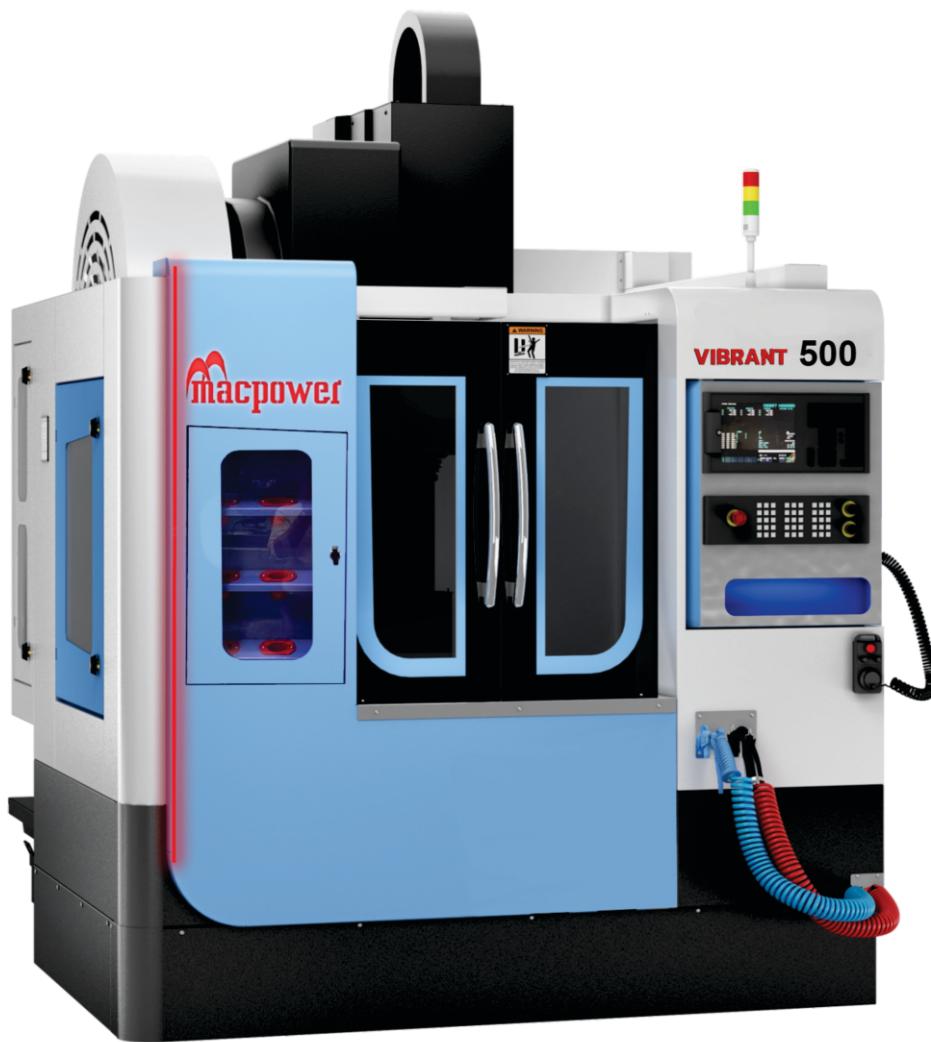
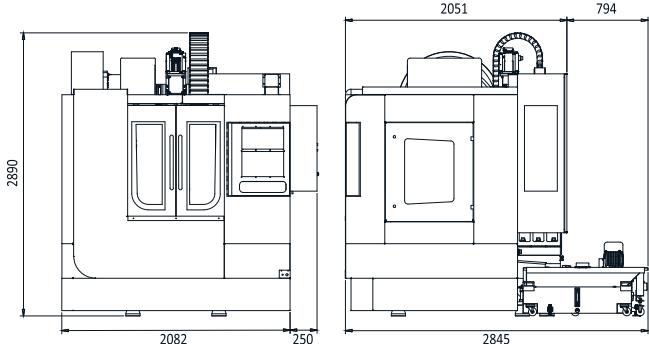


TABLE SIZE (CLAMPING AREA)	MM	450x650
AXIS STROKE (X / Y / Z)	MM	525 / 500 / 500
RAPID FEED RATES X/Y/Z AXIS	M/MIN	30/30/30
LOAD CAPACITY	KG	500
SPINDLE	-	BT 40
RATED POWER(FANUC)	KW	5.5/7.5
WEIGHT (APPROX)	KG	4060
DIMENSIONS (APPROX) (WxDxH)	MM	2332x2845x2890

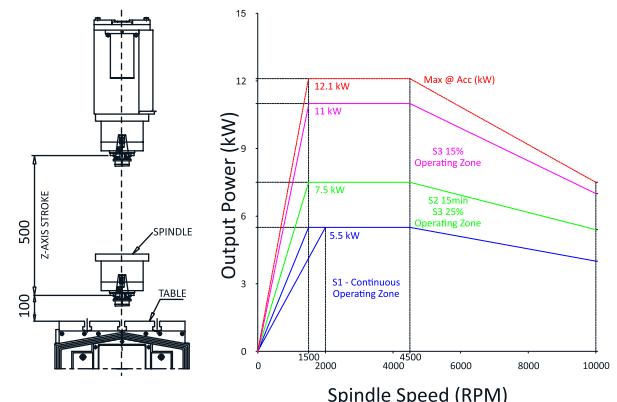
COMPONENTS



MACHINE DIMENSIONS



MACHINING RANGE & POWER DIAGRAM



VIBRANT 600

VERTICAL MACHINING CENTER

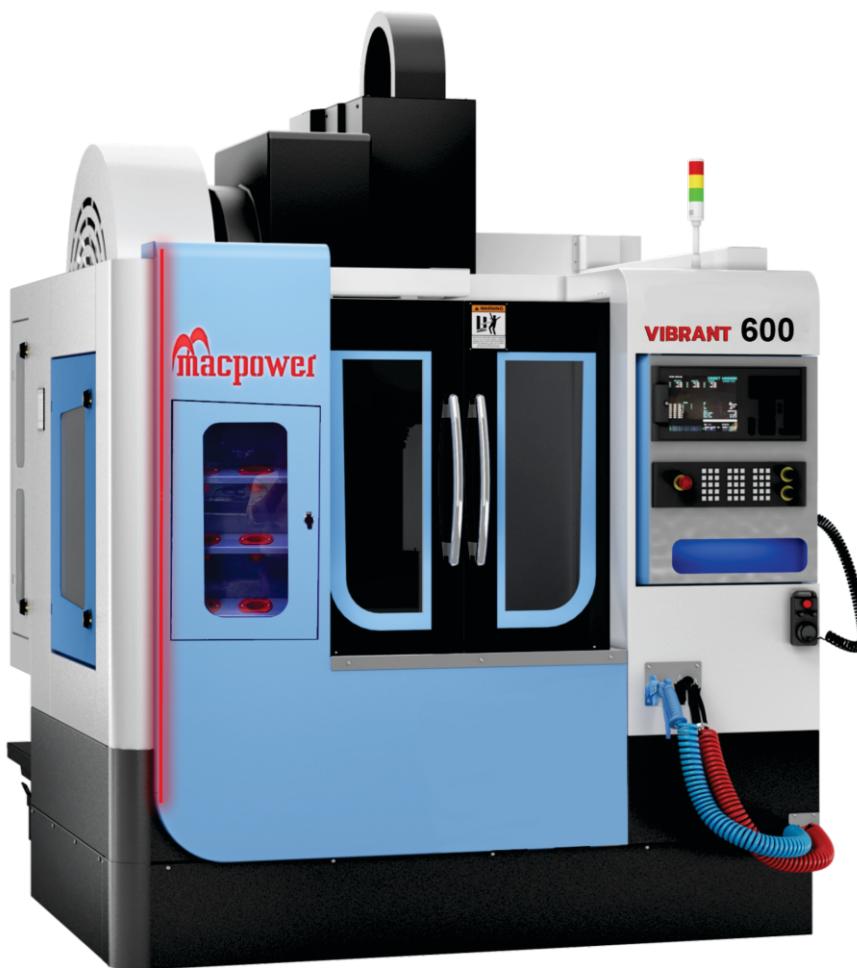
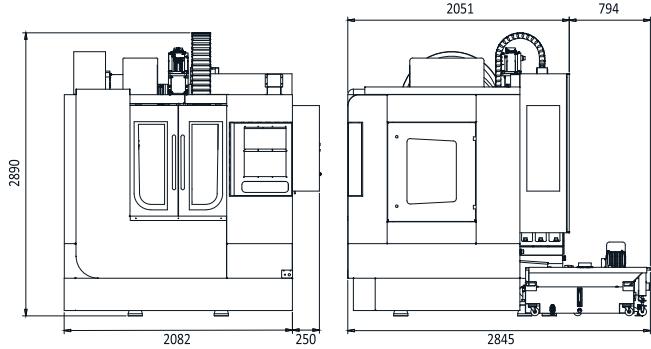


TABLE SIZE (CLAMPING AREA)	MM	500x800
AXIS STROKE (X / Y / Z)	MM	600 / 500 / 500
RAPID FEED RATES X/Y/Z AXIS	M/MIN	30/30/30
LOAD CAPACITY	KG	500
SPINDLE	-	BT 40
RATED POWER(FANUC)	KW	5.5/7.5
WEIGHT (APPROX)	KG	4360
DIMENSIONS (APPROX) (WxDxH)	MM	2332x2845x2890

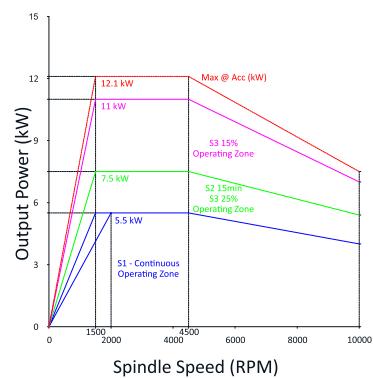
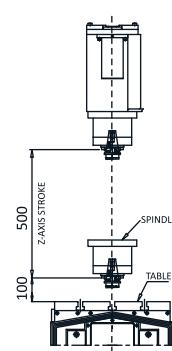
COMPONENTS



MACHINE DIMENSIONS



MACHINING RANGE & POWER DIAGRAM



VIBRANT 700

VERTICAL MACHINING CENTER

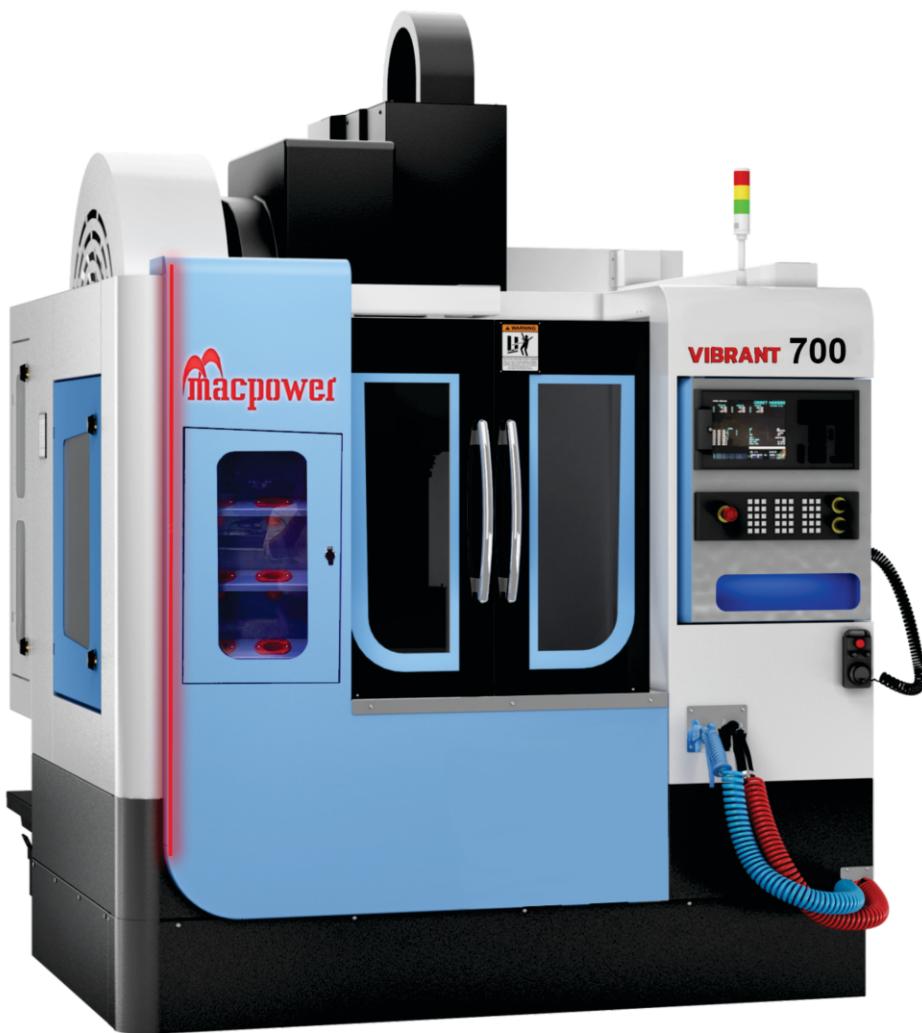
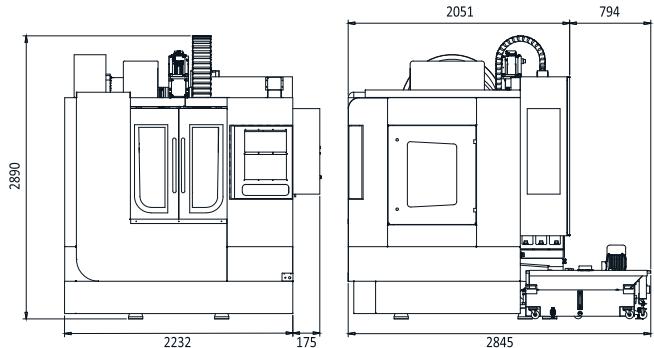


TABLE SIZE (CLAMPING AREA)	MM	500x900
AXIS STROKE (X / Y / Z)	MM	700 / 500 / 500
RAPID FEED RATES X/Y/Z AXIS	M/MIN	30/30/30
LOAD CAPACITY	KG	550
SPINDLE	-	BT 40
RATED POWER(FANUC)	KW	5.5/7.5
WEIGHT (APPROX)	KG	(4400)
DIMENSIONS (APPROX) (WxDxH)	MM	2407x2845x2890

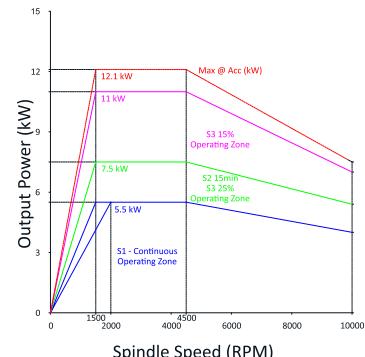
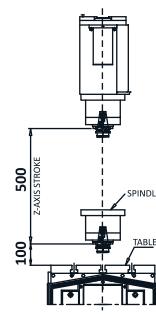
COMPONENTS



MACHINE DIMENSIONS



MACHINING RANGE & POWER DIAGRAM



VIBRANT 800

VERTICAL MACHINING CENTER

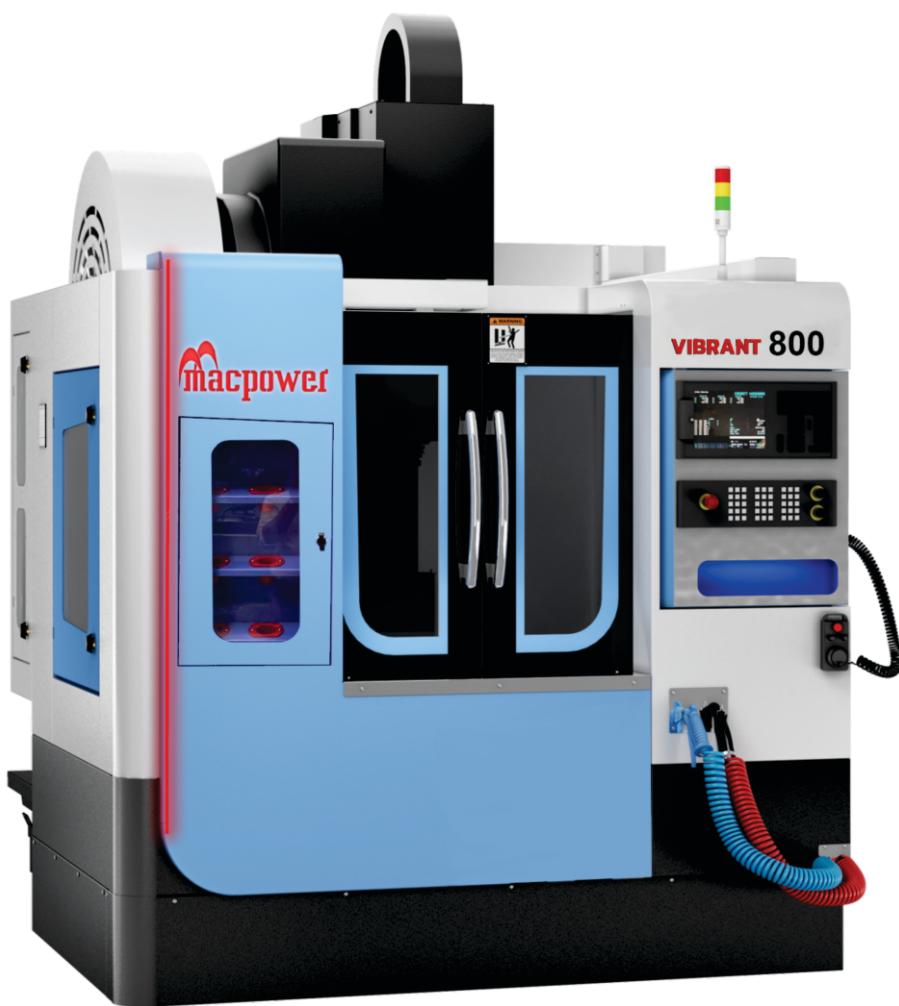
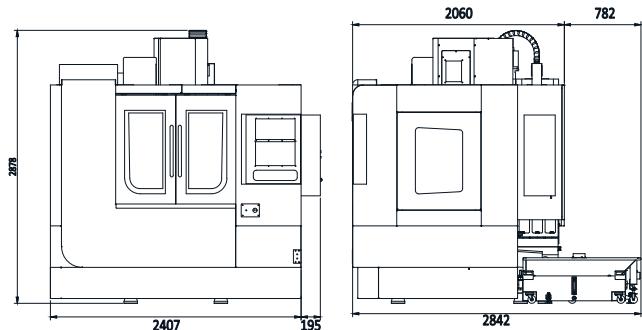


TABLE SIZE (CLAMPING AREA)	MM	500x1000
AXIS STROKE (X / Y / Z)	MM	800 / 550 / 550
RAPID FEED RATES X/Y/Z AXIS	M/MIN	30/30/30
LOAD CAPACITY	KG	600
SPINDLE	-	BT 40
RATED POWER(FANUC)	KW	7.5/11
WEIGHT (APPROX)	KG	(4800)
DIMENSIONS (APPROX) (WxDxH)	MM	2602x2842x2878

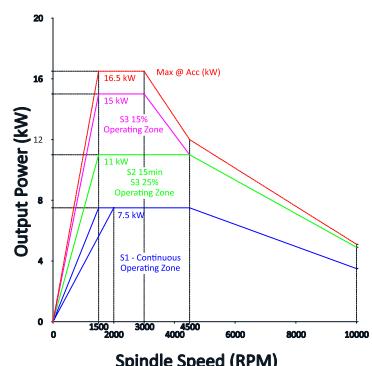
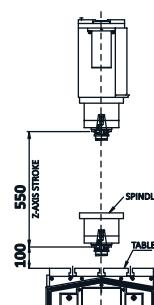
COMPONENTS



MACHINE DIMENSIONS



MACHINING RANGE & POWER DIAGRAM



VIBRANT 900

VERTICAL MACHINING CENTER

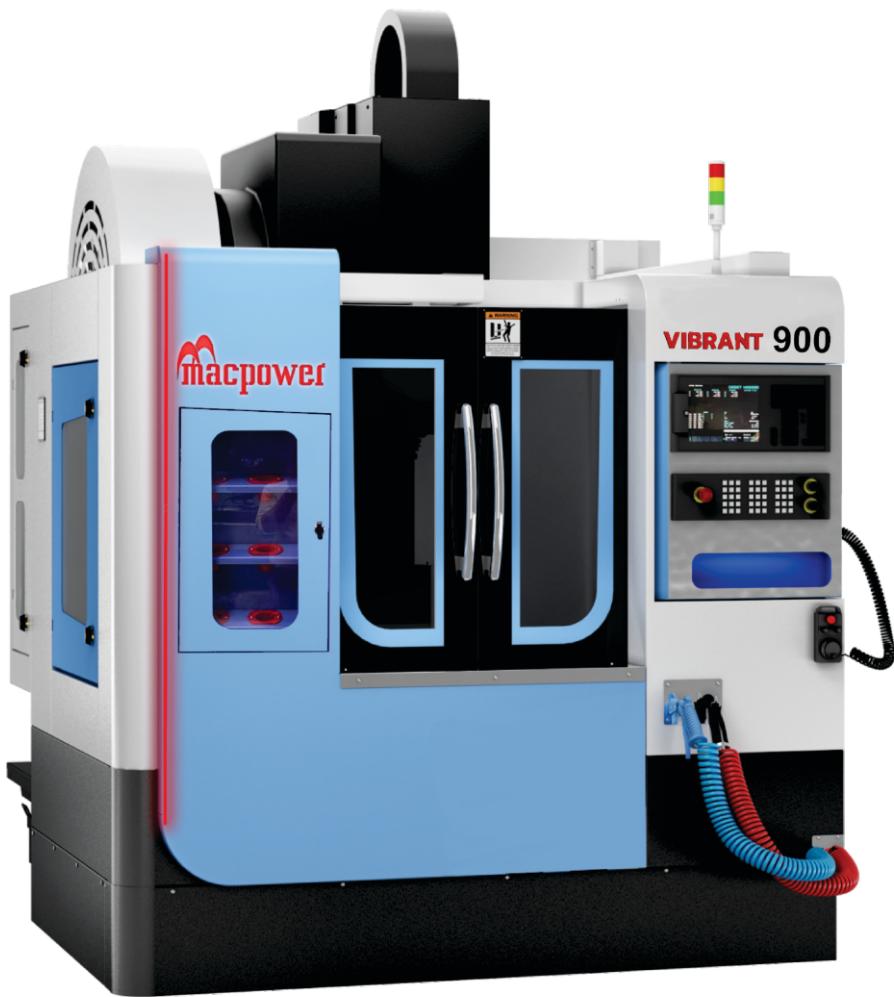
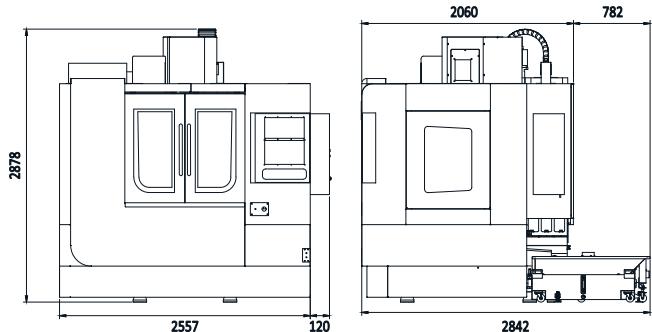


TABLE SIZE (CLAMPING AREA)	MM	500x1100
AXIS STROKE (X / Y / Z)	MM	900 / 550 / 550
RAPID FEED RATES X/Y/Z AXIS	M/MIN	30/30/30
LOAD CAPACITY	KG	900
SPINDLE	-	BT 40
RATED POWER(FANUC)	KW	7.5/11
WEIGHT (APPROX)	KG	5040
DIMENSIONS (APPROX) (WxDxH)	MM	2677x2842x2878

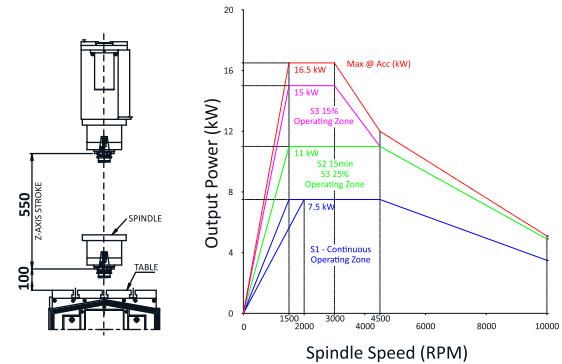
COMPONENTS



MACHINE DIMENSIONS



MACHINING RANGE & POWER DIAGRAM



V 855 SUPER

VERTICAL MACHINING CENTER

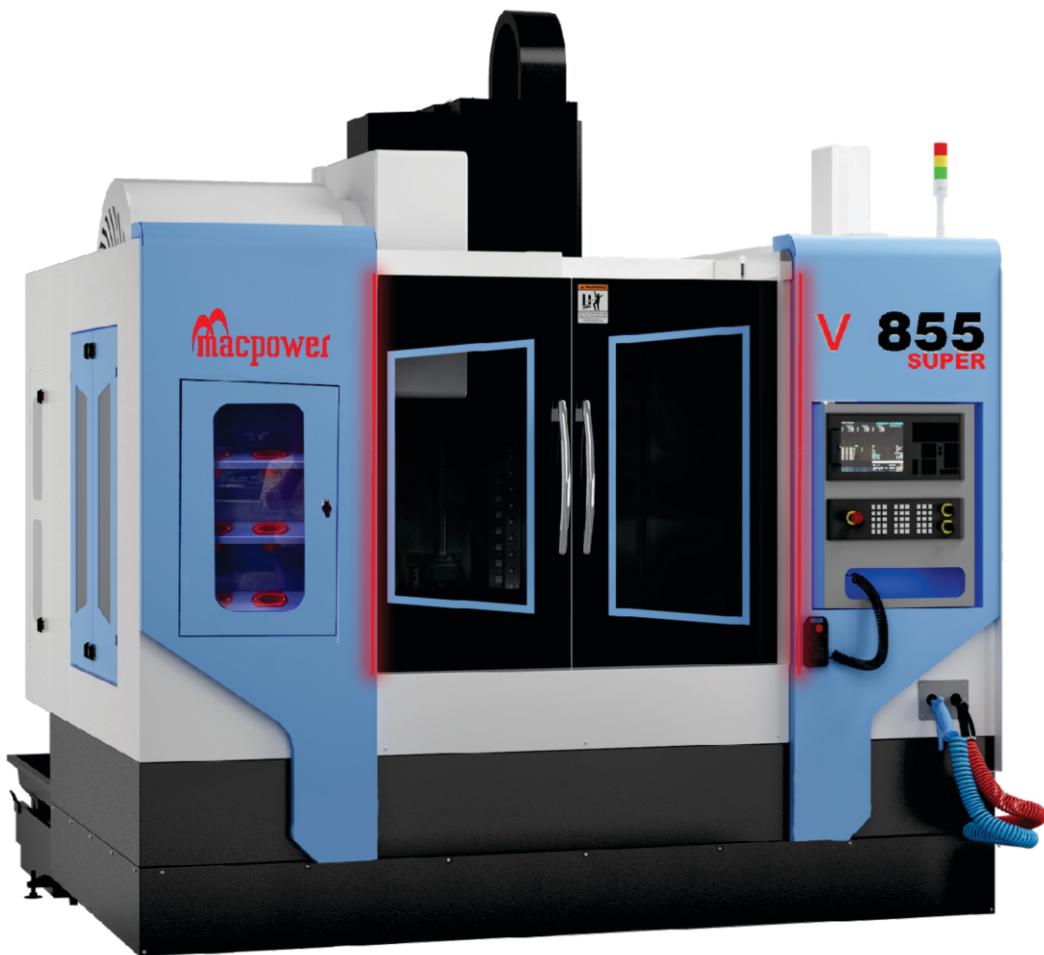
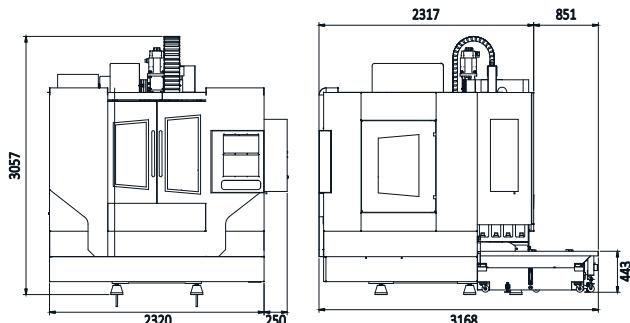


TABLE SIZE (CLAMPING AREA)	MM	500X1050
RAPID FEED RATES X/Y/Z AXIS	M/MIN	30/30/30
LOAD CAPACITY	KG	800
SPINDLE	-	BT 40
RATED POWER(FANUC)	KW	7.5/11
WEIGHT (APPROX)	KG	5500
DIMENSIONS (APPROX) (WXDXH)	MM	2570X3168X3057

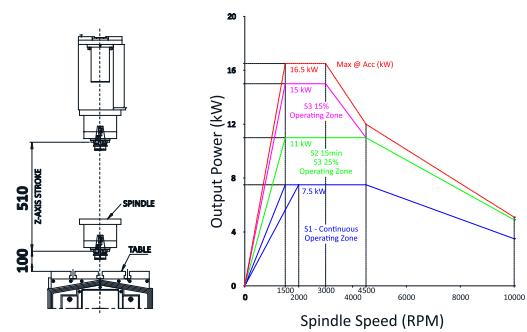
COMPONENTS



MACHINE DIMENSIONS



MACHINING RANGE & POWER DIAGRAM



VIBRANT 1166

VERTICAL MACHINING CENTER

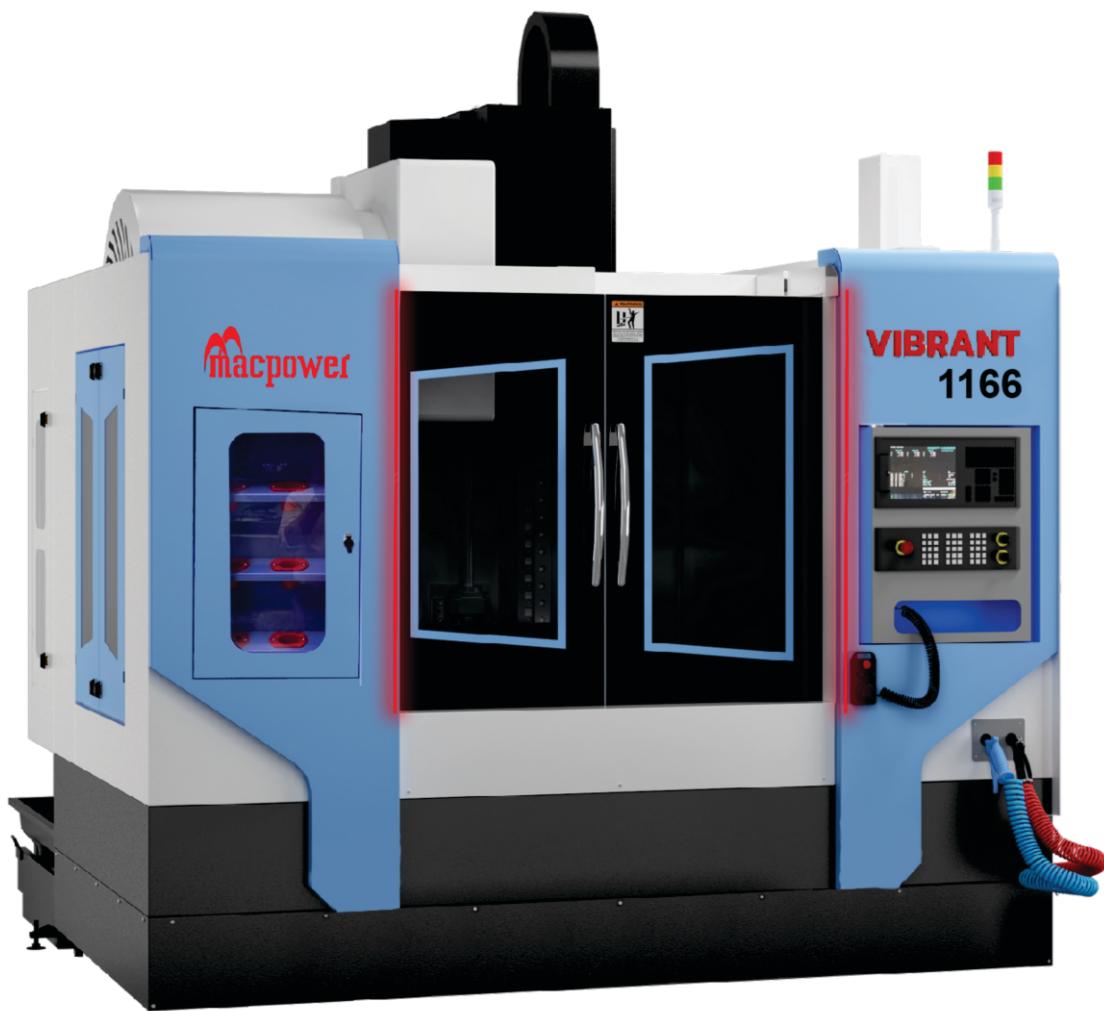
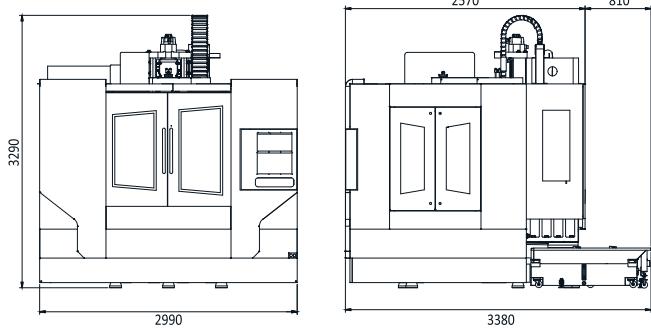


TABLE SIZE (CLAMPING AREA)	MM	600x1300
AXIS STROKE (X / Y / Z)	MM	1100 / 650 / 650
RAPID FEED RATES X/Y/Z AXIS	M/MIN	30/30/24
LOAD CAPACITY	KG	1100
SPINDLE	-	BT 40 / BT 50
RATED POWER(FANUC)	KW	11 / 15
WEIGHT (APPROX)	KG	7170/(7860)
DIMENSIONS (APPROX) (WxDxH)	MM	2990x3380x3290

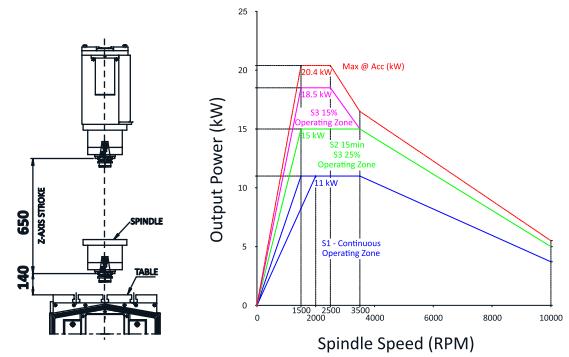
COMPONENTS



MACHINE DIMENSIONS



MACHINING RANGE & POWER DIAGRAM



VIBRANT 1366

VERTICAL MACHINING CENTER

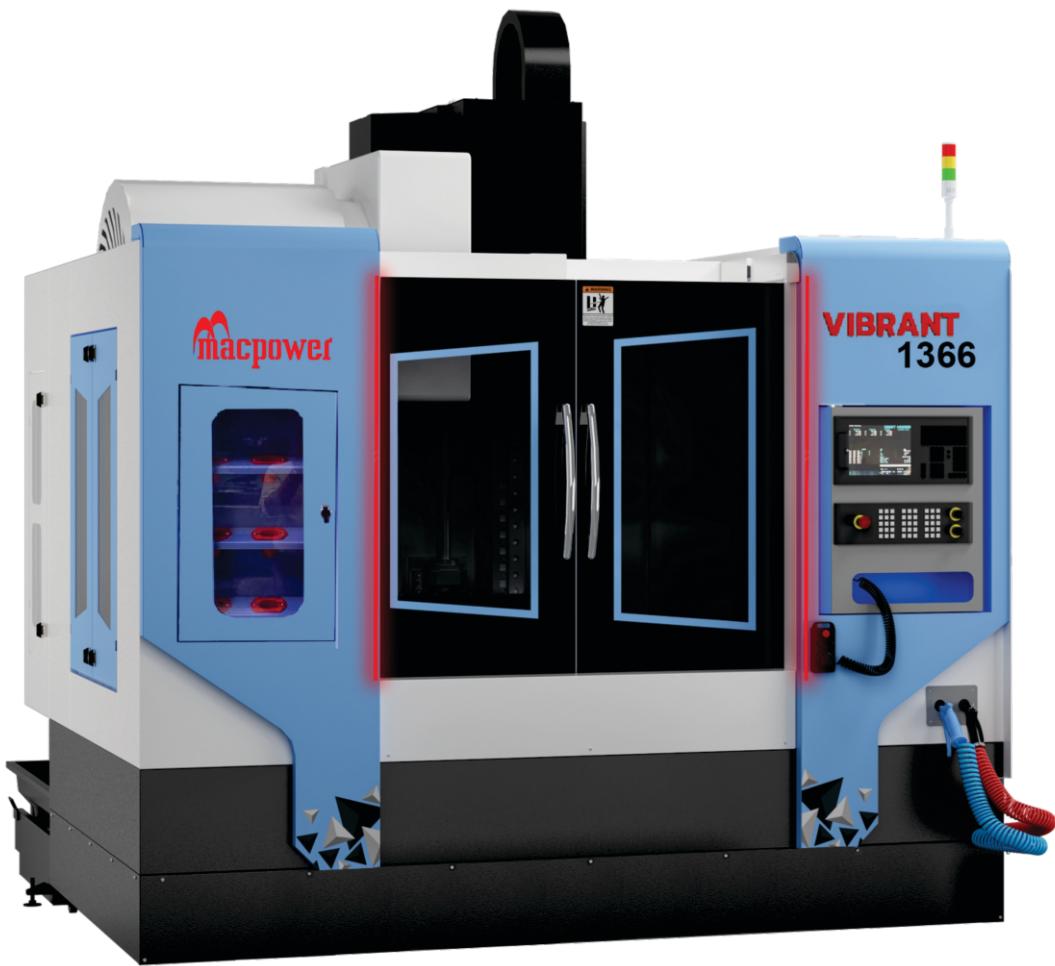
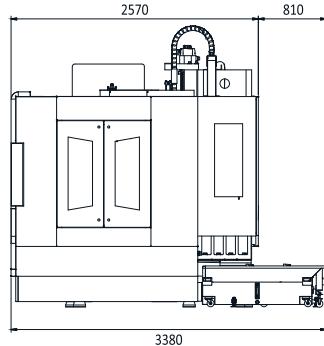
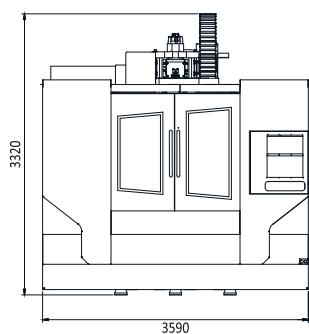


TABLE SIZE (CLAMPING AREA)	MM	650x1450
AXIS STROKE (X / Y / Z)	MM	1310 / 650 / 650
RAPID FEED RATES X/Y/Z AXIS	M/MIN	24/24/20
LOAD CAPACITY	KG	1300
SPINDLE	-	BT 40 / BT 50
RATED POWER(FANUC)	KW	11 / 15
WEIGHT (APPROX)	KG	7405 / 8055
DIMENSIONS (APPROX) (WXDXH)	MM	3590x3380x3320

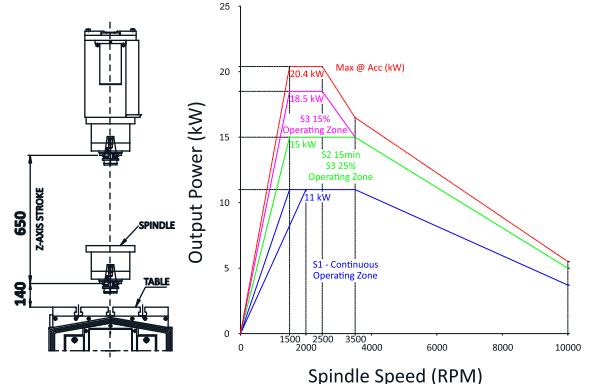
COMPONENTS



MACHINE DIMENSIONS



MACHINING RANGE & POWER DIAGRAM



VIBRANT SERIES MACHINE CONFIGURATIONS

DESCRIPTION	UNIT	VIBRANT 400	VIBRANT 500
CAPACITY			
X AXIS TRAVEL	MM	410	525
Y AXIS TRAVEL	MM	300	500
Z AXIS TRAVEL	MM	300	500
RAPID FEED RATES X/Y/Z AXIS	M/MIN	30/30/30	30/30/30
DISTANCE FROM TABLE			
TO SPINDLE FACE	MM	100-400	100-600
TABLE			
TABLE SIZE (CLAMPING AREA)	MM	300x600	450x650
NO./WIDTH/CD OF T-SLOTS	MM	2/14/100	3/18/125
MAX SAFE LOAD ON TABLE	KG	250	500
MAIN SPINDLE			
TAPER	-	BT40	BT40
SPEED	RPM	80-8000	80-8000
CUTTING FEED RATE	MM/MIN.	1-10000	1-10000
RATED POWER (FANUC)	KW	5.5 / 7.5	5.5 / 7.5
AUTO TOOL CHANGER			
TYPE	-	TWIN ARM	TWIN ARM
NO. OF TOOLS	-	20	24
TOOL SELECTION	-	RANDOM	RANDOM
MAX. TOOL DIA. (POCKET FULL/EMPTY)	MM	80/150	80/150
TOOL LENGTH	MM	300	300
TOOL WEIGHT	KG	7	7
ACCURACY (AS PER JIS)			
POSITIONING	MM	0.01	0.01
REPEATABILITY	MM	0.007	0.007
INSTALLATION DATA			
PNEUAMTIC SUPPLY	BAR	6	6
MACHINE WEIGHT (APPROX)	KG	3150	4060
TOTAL CONNECTED LOAD	KVA	16	16
POWER SUPPLY	-	"AC 440 V, 50HZ, 3 PH."	"AC 440 V, 50HZ, 3 PH."
MACHINE DIMENSIONS (WXDXH) (APPROX)	MM	1911 x 2618 x 2500	2332 x 2845 x 2890
SYSTEM			
FANUC	-	0I MF PLUS	0I MF PLUS
SIEMENS	-	828D	828D
MITSUBISHI	-	M80 V	M80 V

VIBRANT 600	VIBRANT 700	VIBRANT 800	VIBRANT 900
600	700	800	900
500	500	550	550
500	500	550	550
30/30/30	30/30/30	30/30/30	30/30/30
100-600	100-600	100-650	100-650
500X800	500X900	500X1000	500X1100
4/18/100	4/18/100	4/18/100	4/18/100
500	550	600	900
Bt40	BT40	BT40	Bt40
80-8000	80-8000	80-8000	80-8000
1-10000	1-10000	1-10000	1-10000
5.5 / 7.5	5.5 / 7.5	7.5 / 11	7.5 / 11
TWIN ARM	TWIN ARM	TWIN ARM	TWIN ARM
24	24	24	24
RANDOM	RANDOM	RANDOM	RANDOM
80/150	80/150	80/150	80/150
300	300	300	300
7	7	7	7
0.01	0.01	0.01	0.01
0.007	0.007	0.007	0.007
6	6	6	6
4360	(4400)	(4800)	5040
16	16	19	19
"AC 440 V, 50HZ, 3 PH."			
2332 x 2845 x 2890	2407 x 2845 x 2890	2602 x 2842 x 2878	2677 x 2842 x 2878
OI MF PLUS	OI MF PLUS	OI MF PLUS	OI MF PLUS
828D	828D	828D	828D
M80 V	M80 V	M80 V	M80 V

V 855 SUPER	VIBRANT 1166	VIBRANT 1366
850	1100	1310
510	650	650
510	650	650
30/30/30	30/30/24	24/24/20
100-610	140-790	140 - 790
500X1050	600X1300	650X1450
4/18/100	5/18/100	5/18/100
800	1100	1300
BT40	BT 40 / BT 50	BT 40 / BT 50
80-8000	80-8000/60-6000	80-8000/60-6000
1-10000	1-10000	1-10000
7.5 / 11	11 / 15	11 / 15
TWIN ARM	TWIN ARM	TWIN ARM
24	24 / 20	24 / 20
RANDOM	RANDOM	RANDOM
80/150	80/150, 125/200	80/150, 125/200
300	300/400	300/400
7	7/20	7/20
0.01	0.01	0.01
0.007	0.007	0.007
6	6	6
5500	7170/(7860)	7405 / 8095
19	25	26
"AC 440 V, 50HZ, 3 PH."	"AC 440 V, 50HZ, 3 PH."	"AC 415 V, 50HZ, 3 PH."
2570 x 3168 x 3057	2990 x 2570 x 3290 (BT 40)	3590 x 2570 x 3320 (BT 40)
	2990 x 3380 x 3375 (BT 50)	3590 x 3380 x 3405 (BT 50)
OI MF PLUS	OI MF PLUS	OI MF PLUS
828D	828D	828D
M80 V	M80 V	M80 V

ACCESSORIES

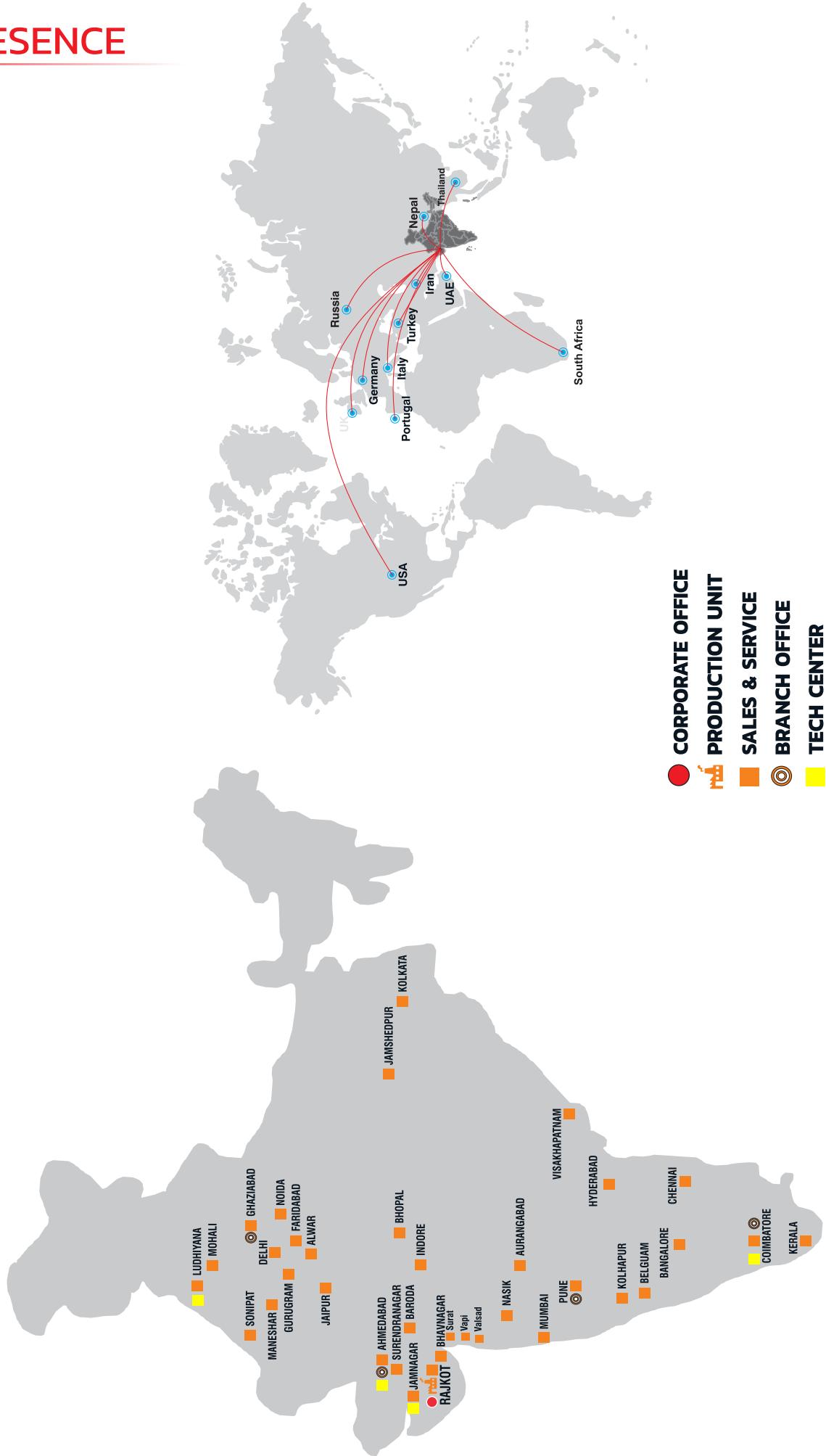
STANDARD

- ROLLER GUIDEWAYS
- 24 TOOL ATC
- WORK LIGHT
- HAND WHEEL
- LEVELING PAD
- RING COOLANT
- PATROL LIGHT
- AIR GUN
- CENTRALIZED LUBRICATION SYSTEM
- PULL STUD
- DRY AIR CUTTING

OPTIONAL

- COOLANT GUN
- AUTO DOOR
- CHIP CONVEYOR
- LINEAR SCALE
- STABILIZER
- FLUSH COOLANT
- COOLANT THROUGH SPINDLE
- 30 TOOL ATC
- ROTARY TABLE
- ROTARY TILTING TABLE
- GEAR BOX
- HIGHER RPM SPINDLES
- SPINDLE CHILLER
- INDEXER
- TOOL PROBE
- WORK PROBE
- TOOLED UP SOLUTIONS
- VERTICAL AXIS PULL UP DURING POWER FAILURE

OUR PRESENCE



FOR MORE INFORMATION PLEASE CONTACT

WEST ZONE

Rajkot	:	93777 87930
Jamnagar	:	74860 42366
Surendranagar	:	74860 42366
Morbi	:	93777 87930
Bhavnagar	:	93777 87930
Ahmedabad	:	93775 87930
Sanand	:	93775 87930
Anand	:	93775 87930
Baroda	:	63560 02810
Halol	:	63560 02810
Surat	:	93753 87930
Vapi	:	93753 87930
Mumbai	:	93203 87930
Nasik	:	93713 87930
Aurangabad	:	93456 87930
Kolhapur	:	72858 55955
Pune	:	93210 87930
Ahmednagar	:	93210 87930

NORTH ZONE

Delhi	:	76000 10288
Faridabad	:	74860 29853
Ghaziabad	:	72111 02820
Noida	:	76000 10288
Gurugram	:	63588 811123
Haryana	:	89504 69265
Sonipat	:	89504 69265
Ludhiana	:	99886 93302
Mohali	:	99886 93302
Jaipur	:	72111 88869
Alwar	:	72111 88869
Jodhpur	:	72111 88869

EAST ZONE

Kolkata	:	93758 45361
Jameshpur	:	93758 45361

SOUTH ZONE

Hyderabad	:	72111 03869
Bangalore	:	72111 03869
Chennai	:	63560 02822
Belgaum	:	91641 02610
Coimbatore	:	72111 02822
Trichy	:	72111 02822
Kerala	:	72111 02822

CENTRAL ZONE

Indore	:	99747 97756
Bhopal	:	87706 96570

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Note : Technical Specifications and Colors are subject to change as a part of continuous development.