

VMU series

Built-in 4+1/5-Axis Machining Center



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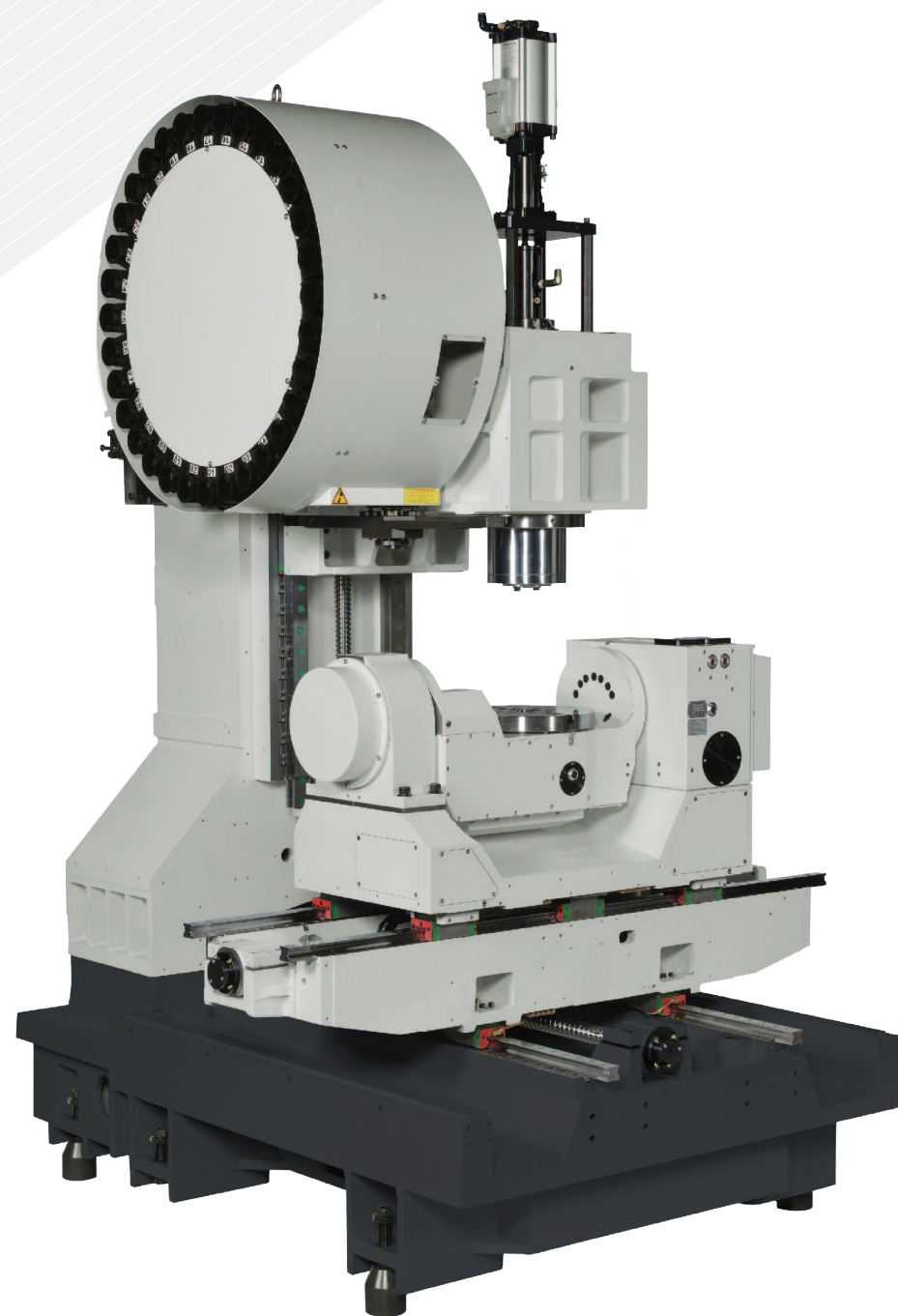
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VMU series

Built-in 4+1/5-Axis Machining Center

- Built -in Spindle as standard
- Reservoir -type Lubricator, Bronze Tube oil Circuit
- 3 Axes Adopted Roller Type Linear Guideways.
- 4 Slide way on base (Y axis) / for over 1100 structure.



- 5 Axis Control Vertical Machining Center (4+1 also)
- Rotary Table with External Encoder 10"/arc(Option5" arcc),0.001 minimum Position



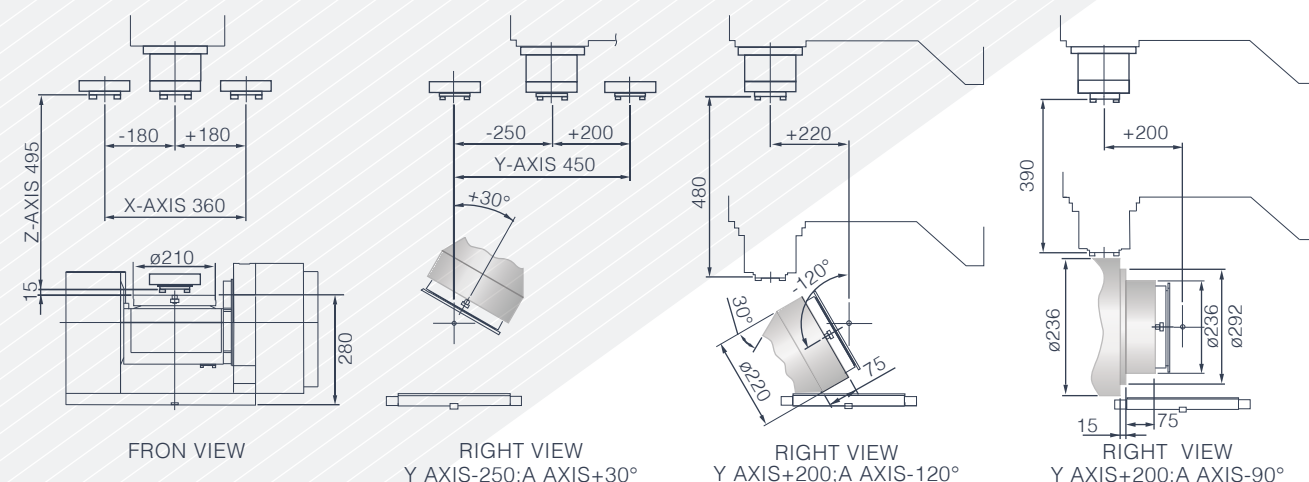
- Movealde Control Panel for Easier Operation
- Small Footprint but Bigger Travel of Machine,
- Aesthetics Design Cover



WORKING RANGE

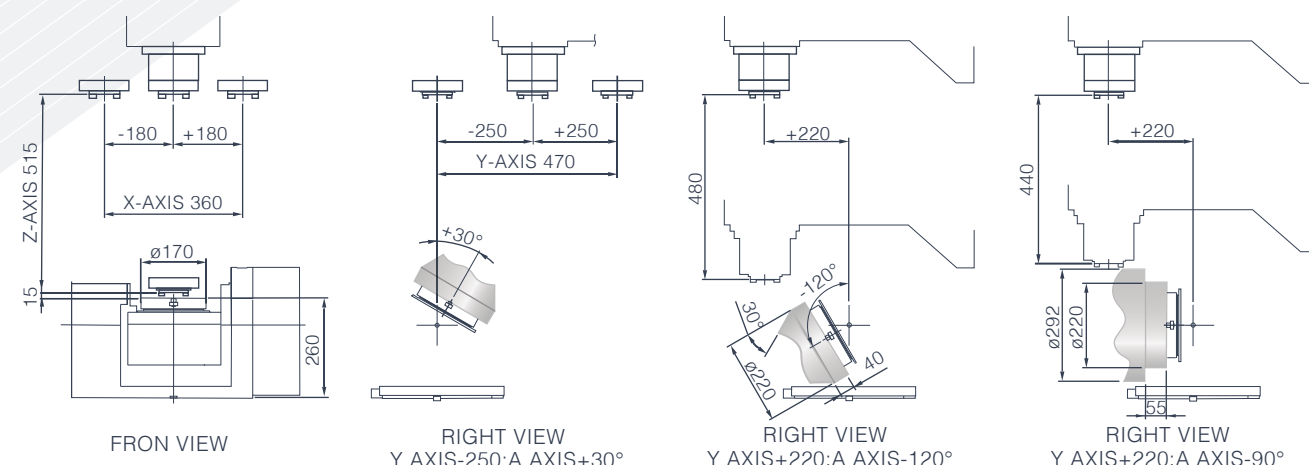
VMU-170

X AXES WORKING AREA : 360
Y AXES WORKING AREA : 470(-250~+220)
Z AXES WORKING AREA : 515(nose distance 15~530) ATLM



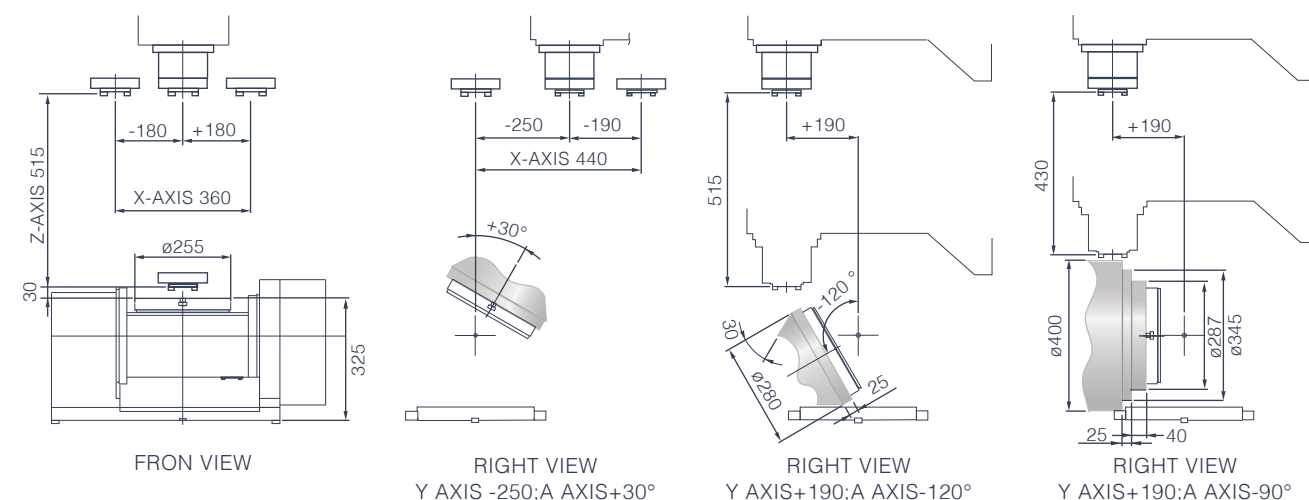
VMU-200

X AXES WORKING AREA : 360
Y AXES WORKING AREA : 450(-250~+200)
Z AXES WORKING AREA : 495(nose distance 15~510) ATLM



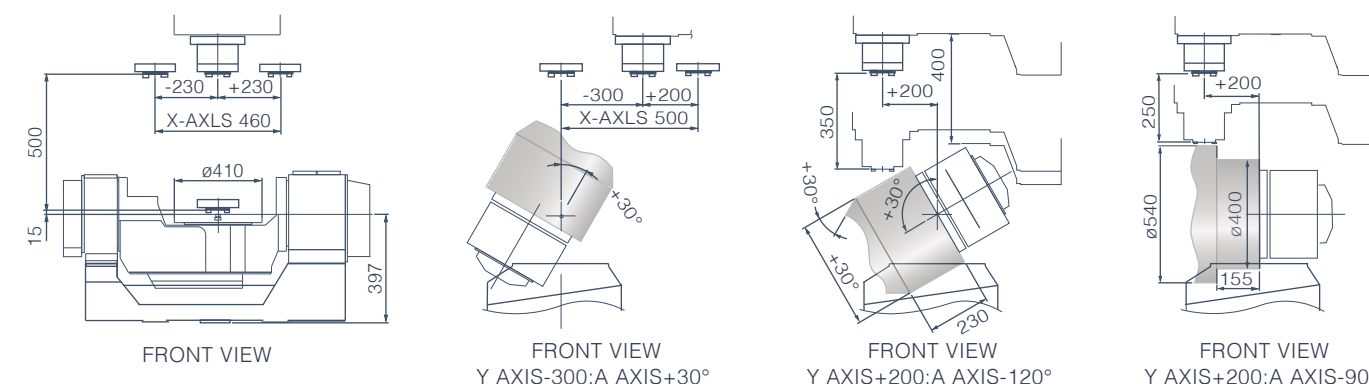
VMU-250

X AXES WORKING AREA : 360
Y AXES WORKING AREA : 440 (-250~+190)
Z AXES WORKING AREA : 515(nose distance 30~545)ATLM



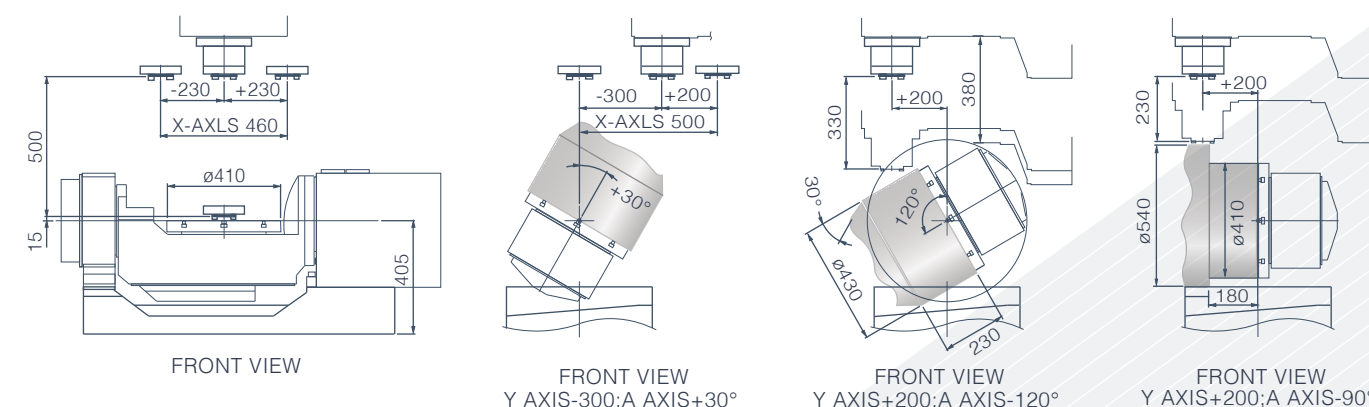
VMU-320

X AXES WORKING AREA : 460
Y AXES WORKING AREA : 500 (-300~+200)
Z AXES WORKING AREA : 500(Long nose distance 15~515)
Max tool length 250mm



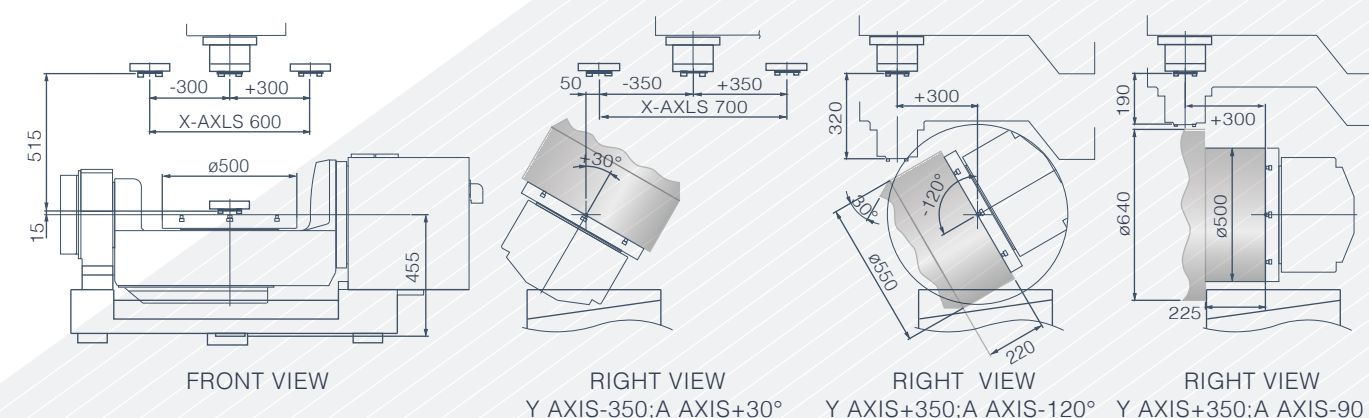
VMU-400

X AXES WORKING AREA : 460
Y AXES WORKING AREA : 500 (-300~+200)
Z AXES WORKING AREA : 500(Long nose distance 15~515)
Max tool length 250mm

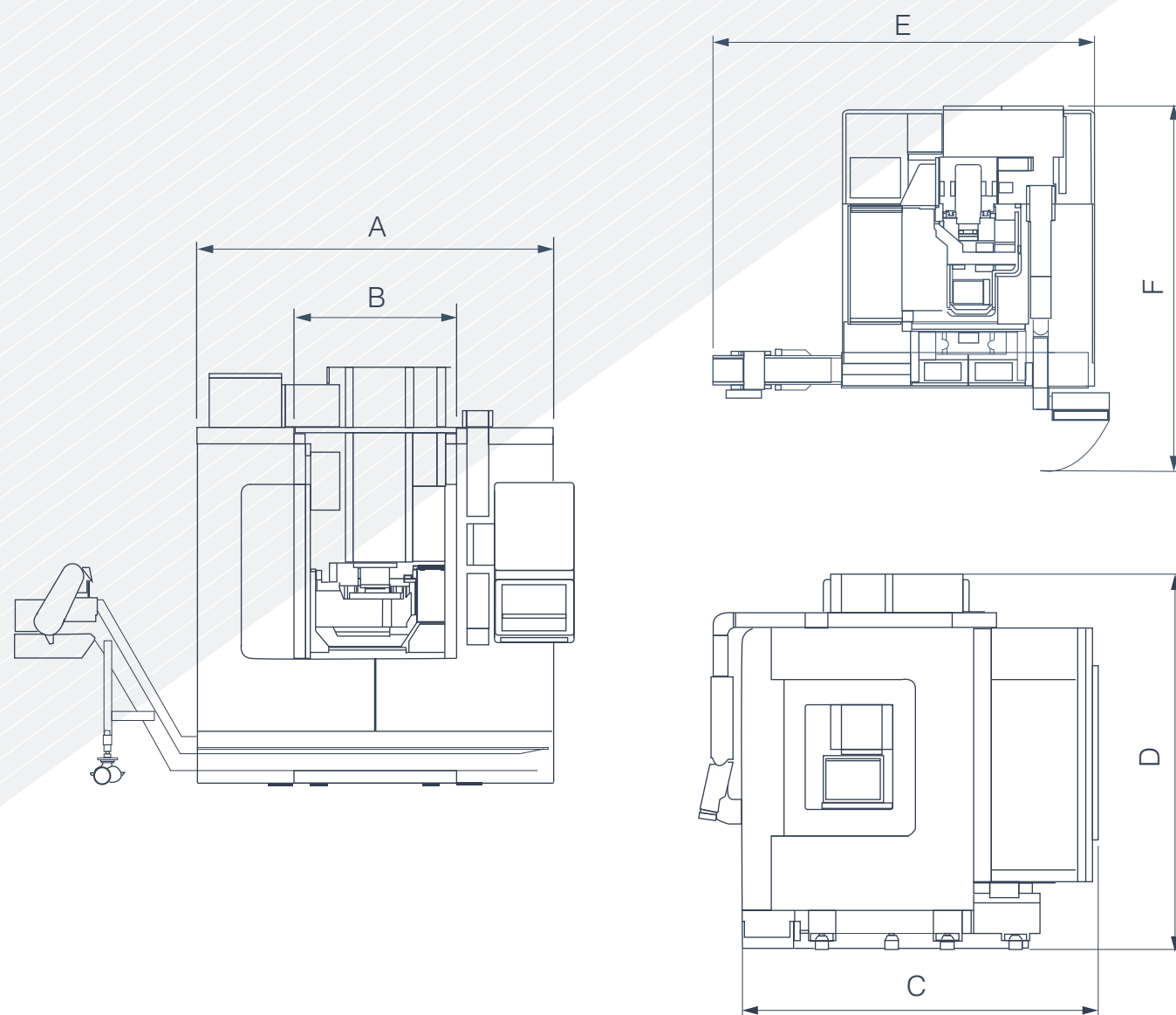


VMU-500

X AXES WORKING AREA : 600
Y AXES WORKING AREA : 700 (Center Shift -50mm)
Z AXES WORKING AREA : 500(Long nose distance 15~515)
Max tool length 240mm



DIMENSIONAL DRAWINGS



Outline Dimensions						
	A	B	C	D	E	F
VMU-170 VMU-200	1900	760	2410	Min.2330 Max.2830	2560 (Chip Auger) 3010 (Chip Conveyor)	3310
VMU-250	1900	760	2410	Min.2395 Max.2910	2560 (Chip Auger) 3010 (Chip Conveyor)	3310
VMU-320 VMU-400	2200	1000	2440	Min.2545 Max.3045	2880 (Chip Auger) 3330 (Chip Conveyor)	3200
VMU-500	2900	1350	2270	Min.2750 Max.3250	3560 (Chip Auger) 4010 (Chip Conveyor)	3170

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MACHINE SPECIFICATIONS

	UNIT	FUV-170	FUV-200	FUV-250	FUV-320	FUV-400	FUV-500
TABLE							
Table Size	(mm)	Ø170	Ø200	Ø255	Ø320	Ø410	Ø500
Tavel Range (X/Y/Z)	(mm)	360 x 470 x 515	360 x 450 x 495	360 x 440 x 515	460 x 500 x 500	460 x 500 x 500	600 x 700 x 500
T-Slot Size	(mm)	12H7					
Max. TableLoad (0°/90°)	(kg)	30 / 30		100 / 70	200 / 100	200 / 150	300 / 250
Dia. of TableCenter Hole	(mm)	Ø40			Ø70		Ø50
Spindle Nose To Table Surface	(mm)	15 ~ 530	15 ~ 510	30 ~ 545	15 ~ 515	15 ~ 515	15 ~ 515
A Axis, Tilt	(deg)	+30° ~ -120°					
C Axis, Rotary	(deg)	360°					
SPINDLE							
Spindle Transmission		Direct (Built-in)					
Spindle Motor	(kw)	5.5/7.5(12/15)			7.5/11(15/18.5)		
Spindle Speed (Direct)	(rpm)	12000(15000)			10000(12000/15000)		10000(12000/15000)
Spindle Speed (Built-in)	(rpm)	15000(18000/24000)					
ATC							
Tool Shank		ISO 40					
Tool Capacity	(T)	24 (30/36)		24 (30/36)		24 (30/40)	
Max. Tool Length	(mm)	250					
Max. Tool Dia.	(mm)	24/30T: Ø75/Ø150 36T: Ø65/Ø130			24/30T: Ø75/Ø150 40T: Ø75/Ø127		
RAPID SPEED							
X/Y/Z Axis	(m/ min)	36		36 / 36 / 30		36 / 36 / 30	
A/C Axis	(rpm)	33 / 22		25 / 25		16 / 11	
Cutting Feedrate	(m/min)	12					
OTHERS							
Machine Dimension (with chip auger)	(mm)	2560 x 3310 x 2830		2560 x 3310 x 2910	2880 x 3200 x 3045		3560 x 3170 x 3250
Machine Dimension (with chip conveyor)	(mm)	3010 x 3310 x 2830		3010 x 3310 x 2910	3330 x 3200 x 3045		4010 x 3170 x 3250
Machine Weight	(kgs)	4500			6600		8700
Coolant Capacity	(L)	180			350		400

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STANDARD ACCESSORIES :

- Arm Type Automatic Tool Changer (24 Tools)
- Fully Enclosed Guard
- Swivel Control Box
- Work Light & AI arm Light
- Coolant & Chip Flushing System
- Auto Power Off
- Rigid Tapping
- Tool Box
- Leveling Bolts & Pads
- Operation Manual
- Spindle Coolant Ring
- Chip Auger

OPTIONAL ACCESSORIES :

- Control System : Fanuc, Mitsubishi, Heidenhain, Fagor
- Transformer
- Chip Conveyor
- Auto Tool Length Measurement
- Auto Workpiece Measurement
- Linear Scale
- Coolant Through Spindle (30 bar, 50 bar, 70 bar)
- Spindle Splash Ring
- A.T.C. 30 or 36 Tools (Arm Type)
40 Tools (Chain Type) (VMU-500)
- Spindle Speed : Direct :12000/15000 rpm
Built-in : 15000/18000/24000 rpm
- Rear Coolant Flash Device