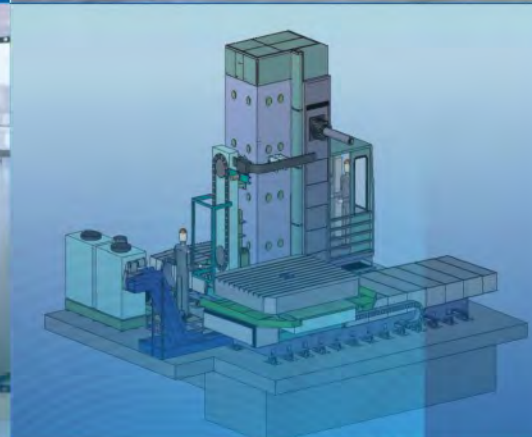




**Professional Manufacturing:  
Horizontal Boring Mills,  
Vertical Turning Centers,  
Precision Vertical Grinder**

**Yinfu Inc. Ltd. – The Best Choice of Heavy Duty  
Machine Manufacturing in the Global**



**Vertical Turning Centers  
Precision Vertical Grinder  
Horizontal Boring Mills**



**胤福股份有限公司 Yinfu Inc. Ltd.**  
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# Vertical Turning Centers

- YVT-1200C
- YVT-1200CM
- YVT-1600C
- YVT-1600CM
- YVT-2000C
- YVT-2000CM
- YVT-2500C
- YVT-2500CM
- YVT-3200C
- YVT-3200CM
- YVT-4500C
- YVT-4500CM



## Standard Features

1. Standard Semi-Hood Enclosure
2. Heat Exchanger with Power Cabinet
3. Drum Type ATC-12T
4. I.D. Tool Holder x 1, O.D. Tool Holder x 1
5. Level Screws and Level Shoes
6. Chip Conveyor with cart
7. Automatic Lubrication System
8. Manually Chuck with 4 Jaws
9. Work Lamps x 2 PCS
10. Operation & Maintenance Manual
11. Electrical Circuit Diagram
12. CNC Controller Manual
13. Hydraulic System with Oil Chiller and Tank

## Options

1. Fanuc 31i-TB
2. SIEMENS 840D
3. Milling Spindle ZF Gearbox
4. X/Z Axes Linear Scales
5. Tool Probe Device
6. Part Probe Device
7. 70 bar of CTS Device
8. 90° Milling Head Device
9. 3/6 Jaw Hydraulic Chuck
10. High Open Top Full Enclosure
11. Automatic Front Door
12. Water Gun
13. Operation Auxiliary Pedal
14. Automatic Grinding Function
15. Simple Grinding Function
16. Air Conditioner with Power Cabinet
17. Extended Type I.D. & O.D. Holder
18. Heightening Type Column
19. 24 Positions ATC-24T
20. CAT50/DIN50 Milling Tool
21. Oil Skimmer
22. Double ATC
23. Double Rams



## Machine Tool Specifications

Specifications / Models		Unit	YVT-1600C	YVT-1600CM	YVT-2000C	YVT-2000CM	YVT-2500C	YVT-2500CM	YVT-3200C	YVT-3200CM	YVT-4500C	YVT-4500CM
Work Disc	Work Disc Diameter	mm	φ 1600	φ 1600	φ 2000	φ 2000	φ 2500	φ 2500	φ 3200	φ 3200	φ 4000	φ 4000
	Max. Swing Diameter	mm	φ 1700	φ 1700	φ 2100	φ 2100	φ 2800	φ 2800	φ 3400	φ 3400	φ 4500	φ 4500
	Max. Cutting Diameter	mm	φ 1600	φ 1600	φ 2000	φ 2000	φ 2500	φ 2500	φ 3200	φ 3200	φ 4000	φ 4000
	Max. Cutting Height	mm	1000	1000	1000	1000	1600	1600	1600	1600	2500	2500
	Crossrail Movement Height	mm	800(4 Step)	800(4 Step)	1000(6 Step)	1000(6 Step)	1250(6 Step)	1250(6 Step)	1250(6 Step)	1250(6 Step)	1600(5 Step)	1600(5 Step)
	Max. Loading of Work Disc	kg	12000	12000	20000	20000	30000	30000	40000	40000	80000	80000
Spindle	Work Disc Spindle Speed Range	rpm	10-650	10-650	10-450	10-450	10-260	10-260	10-190	10-190	1-80	1-80
	Gearbox Gear	step	3	3	3	3	3	3	3	3	3	3
	Cutlery Spindle Speed Range	rpm		3000		3000		3000		3000		3000
	Spindle Ram Size	mm <sup>2</sup>	254x254	254x254	254x254	254x254	254x254	254x254	254x254	254x254	305x305	305x305
ATC System	ATC Cutter		12 / 24	12 / 24	12 / 24	12 / 24	12 / 24	12 / 24	12 / 24	12 / 24	12 / 24	12 / 24
	Tool Specification	mm	□ 25 □ 32 □ 40	□ 25 □ 32 □ 40	□ 25 □ 32 □ 40	□ 25 □ 32 □ 40	□ 25 □ 32 □ 40	□ 25 □ 32 □ 40	□ 25 □ 32 □ 40	□ 25 □ 32 □ 40	□ 25 □ 32 □ 40	□ 25 □ 32 □ 40
	Toolholder Specification	mm	300x300	300x300/BT-50	300x300	300x300/BT-50	300x300	300x300/BT-50	300x300	300x300/BT-50	305x240	305x240/BT-50
Feeds	Rapid Traverse (X axis)	m/min	12	12	12	12	10	10	10	10	10	10
	Rapid Traverse (Z axis)	m/min	12	12	12	12	10	10	10	10	10	10
	Horizontal Movement Travel (X Axis)	mm	-300 ~ 1200	-300 ~ 1200	-300 ~ 1700	-300 ~ 1700						
	Vertical Movement Travel (Z Axis)	mm	800	800	800	800	1250	1250	1250	1250	1600	1600
Cutting Feedrate	mm/rev	0.01-1000	0.01-1000	0.01-1000	0.01-1000	0.01-1000	0.01-1000	0.01-1000	0.01-1000	0.01-1000	0.01-1000	
CNC Controller	Fanuc		0i-TD / 31i-TB	Fanuc 0i-TD / 31i-TB	Fanuc 0i-TD / 31i-TB	Fanuc 0i-TD / 31i-TB	Fanuc 0i-TD / 31i-TB	Fanuc 0i-TD / 31i-TB	Fanuc 0i-TD / 31i-TB	Fanuc 0i-TD / 31i-TB	Fanuc 0i-TD / 31i-TB	Fanuc 0i-TD / 31i-TB
	Siemens		840D	840D	840D	840D	840D	840D	840D	840D	840D	840D
Motors	Work Disc Spindle Motor	kw	α 40(37kw/45HP)	α 40(37kw/45HP)	α 50(37kw/45HP)	α 50(37kw/45HP)	α 60(60kw/80HP)	α 60(60kw/80HP)	α 60(60kw/80HP)	α 60(60kw/80HP)	α 120(120kw/160HP)	α 120(120kw/160HP)
	Feed Motor X	kw	α iF30(7kw/9.3HP)	α iF30(7kw/9.3HP)	α iF30(7kw/9.3HP)	α iF30(7kw/9.3HP)	α iS30(5.5kw/7.4HP)	α iS30(5.5kw/7.4HP)	α iS30(5.5kw/7.4HP)	α iS30(5.5kw/7.4HP)	α iS40(5.5kw/7.4HP)	α iS40(5.5kw/7.4HP)
	Tool Spindle Motor Z	kw	α iF40(9kw/12HP)	α iF40(9kw/12HP)	α iF40(9kw/12HP)	α iF40(9kw/12HP)	α iS40(5.5kw/7.4HP)	α iS40(5.5kw/7.4HP)	α iS40(5.5kw/7.4HP)	α iS40(5.5kw/7.4HP)	α iS40(5.5kw/7.4HP)	α iS40(5.5kw/7.4HP)

## Precision Vertical Grinder

# Precision Vertical Grinder



YVG-1100  
YVG-1600  
YVG-2100  
YVG-2600  
YVG-3100



## Standard Features



## Options



## Machine Tool Specifications

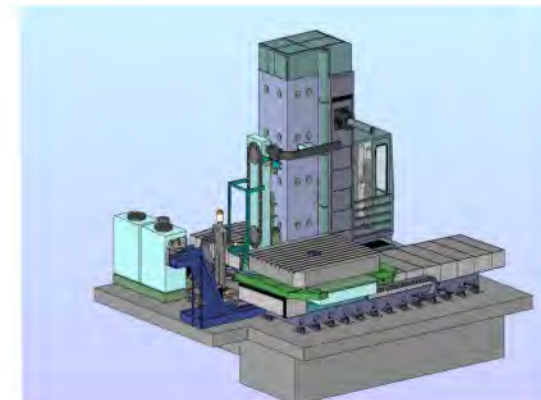
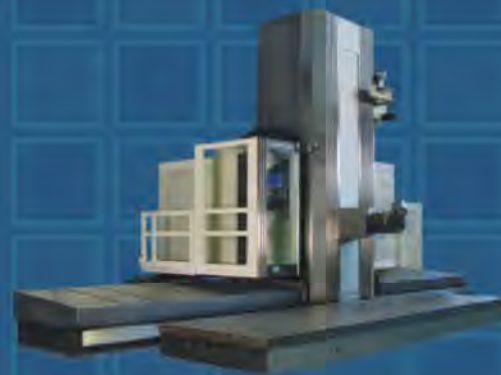
SPEC / Models	YVG-1100	YVG-1600	YVG-2100	YVG-2600	YVG-3100
Table Diameter – mm (in)	1100 (43.3)	1600 (63)	2100 (82.7)	2600 (102.4)	3100 (122.0)
Max. Swing – mm (in)	1250 (49.2)	1700 (66.9)	2200 (86.6)	2700 (106.3)	3200 (126.0)
Z Axis Travel – mm (in)	300 (11.8)	400 (15.8)	500 (19.7)	500 (19.7)	500 (19.7)
<b>Table Power</b>					
Max. Speed Range – RPM	120	100	100	85	75
Output Torque – Nm (lbft)	2500 (1845)	3500 (2580)	5500 (4055)	7000 (5160)	10000 (7375)
Loading – Kg (lbs)	3000 (6600)	4000 (8800)	5000 (11000)	6000 (13200)	8000 (17600)
<b>Grinding Spindle</b>					
Max. Speed Range – RPM	8000	8000	6500	6500	6500
Max. Power – KW (HP)	36 (48)	36 (48)	72 (96)	72 (96)	72 (96)
Max. Dia. of Wheel – mm (in)	300 (11.8)	300 (11.8)	400 (15.8)	400 (15.8)	400 (15.8)
Positioning Accuracy – X & Z Axes	+/- 0.003mm / 300 mm				
Positioning Repeatability Accuracy – X & Z Axes	+/- 0.002mm				
CNC Controller	FANUC 0iTD / 31i-MB				
Voltage	220V				





## Technical Specifications

Specifications		YBMT-13	YBMT-16
<b>Spindle</b>			
Boring Bar Diameter	(in)	130 (5.1)	165 (6.5)
Spindle Taper		BT50/ISO50	BT50/ISO50
Max. Spindle Speed	RPM	4000	3150
Max. Torque	(lbs ft)	2500 (1844)	4150 (3060)
Power	(HP)	37 (50)	51 (68)
<b>Travel</b>			
X Axis (Table)	(in)	2000 (78.7)	2500 (98.4)
Options		2500 (98.4)	3000 (118.1)
		3000 (118.1)	3500 (137.8)
		3500 (137.8)	4000 (157.5)
Y Axis (Spindle Head)	(in)	1600 (63)	2000 (78.7)
Options		2000 (78.7)	2500 (98.4)
		2500 (98.4)	3000 (118.1)
			3500 (137.8)
Z Axis (Vertical Movement)	(in)	1250 (49.2)	1500 (59)
W Axis (Forward and Backward)	(in)	750 (29.5)	1000 (39.4)
<b>Horizontal Movement Table</b>			
Size	(in)	1250X1600 (49.2x63)	1600X2000 (63X78.7)
Max. Loading	kg (lbs)	10000 (22000)	20000 (44000)
Available Sizes	mm (in)	1600X2000 (63x78.7)	1600x2500 (63x98.4)
		1600x2500 (63x98.4)	2000x3000 (78.7x118.1)
		1600X3000 (63x118.1)	2000X3500 (78.7x137.8)
<b>Feedrate</b>			
X & Y & Z Axes	mm/min (in/min)	20000 (787)	16000 (630)
X & Y & Z Axes (Options)	mm/min (in/min)	25000 (984)	20000 (787)
W Axis	mm/min (in/min)	10000 (394)	
<b>Rotary Table (Option)</b>			
Size	mm (in)	1250x1600 (49.2x63)	1600X2000 (63X78.7)
Available Rotary Table Sizes	mm (in)	1600x2000 (63x78.7)	2000x2500 (78.7x98.4)
		2000x2500 (78.7x98.4)	2500x3000 (78.7x118.1)



## Horizontal Boring Mills

### Machine Tool Basic Configuration

- Siemens 840D Control
- Heavy Casting Structure
- Square / Hydrostatic Guideway Combination
- Telescopic Guideway
- 165mm Boring Bar Diameter
- Spindle Oil Chiller
- Spindle Box Hydraulic Balance Unit
- 1600x2000 Rotary Table Loading 20 Tons, Top T-slot
- Linear Scale
- 40 Positions of Tool Magazine
- Chip Conveyer
- Table Rounded with Splash Guard
- Work Lamp and Alarm Lamp

YBMT-13  
YBMT-16

