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VERTICAL MACHINING CENTER

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Agent

JEENXI TECHNOLOGY CO., LTD.

Linear Guideway Series



JHV-550
X/Y/Z travel:
550x400x460mm



JHV-800
X/Y/Z travel:
800x500x580mm



JHV-1020
X/Y/Z travel:
1020x600x580mm



JHV-1100
X/Y/Z travel:
1100x650x610mm
(opt.Z=810)

JHV-1200
X/Y/Z travel:
1200x650x610mm
(opt.Z=810)

JHV-1300
X/Y/Z travel:
1300x750x700mm
(opt.Z=850)

JHV-1500
X/Y/Z travel:
1500x750x700mm
(opt.Z=850)

JHV-1600
X/Y/Z travel:
1600x750x700mm
(opt.Z=850)



JHV-1800
X/Y/Z travel:
1800x900x750mm
(opt.Z=1000)



JHV-2000
X/Y/Z travel:
2000x900x750mm
(opt.Z=1000)



JHV-1800U
X/Y/Z travel:
1800x900x750mm
Z (hor.): 800mm



Square Guideway Series

JMV-1100
X/Y/Z travel:
1100x650x600mm



JMV-1200A
X/Y/Z travel:
1200x650x600mm
(opt.Z=720/800)



JMV-1400
X/Y/Z travel:
1400x720x610mm
(opt.Z=680/700)

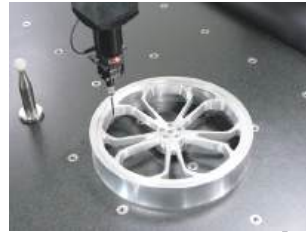


JMV-1600
X/Y/Z travel:
1600x850x750mm

JMV-1800
X/Y/Z travel:
1800x850x750mm

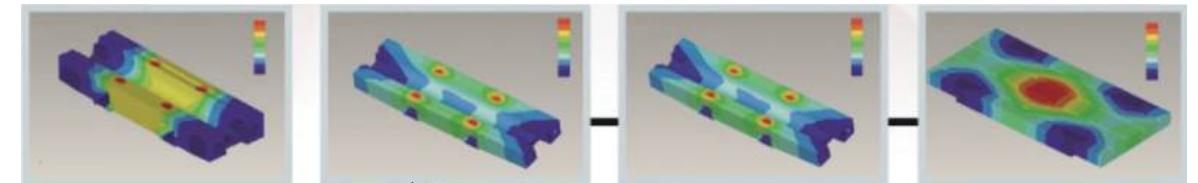


JHV-550



- The high compatibility for application demanding. Machine size small but it can equip with apparatus to complete different works.
Rotary table + strong tailstock + connection plates (Optional Accessories)

JHV-1020



Finite Element Analysis

The structural parts on Jeenxi machine are analyzed and designed by the advanced Finite Element Analysis. It provides a detailed analysis for structural stress/strain conditions, and ensures excellent machine rigidity and lifetime stability.

JHV-800



- All axes is adopted precision linear guideways, which can move rapidly and support heavy load to ensure accurate positioning.
- The bottom of column is specially designed with A-shaped structure to increase machine stability while machining.



- Headstock is mounted spindle air blast system and spindle oil cooling device as standard to eliminate thermal by spindle high rotation, which spindle accuracy and long lifetime.



Precision BallScrew

Pre-tensioned ballscrews on three axes eliminate backlash and reducing thermal growth to maintain excellent accuracy.

JHV-1100 / JHV-1200



Z-axis is supported by six slide blocks

Widening design at bottom of column

• Z axis travel(opt.)
BT40:810mm
BT50:720mm

Y:650 mm X:1100mm/1200mm Z:610mm

Double cross design base with superior rigidity

X-axis is supported by six slide blocks



Linear Guideway Series

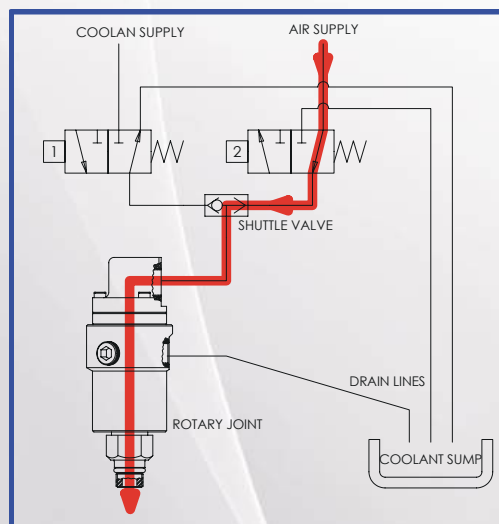
JHV-1300 / JHV-1500 / JHV-1600



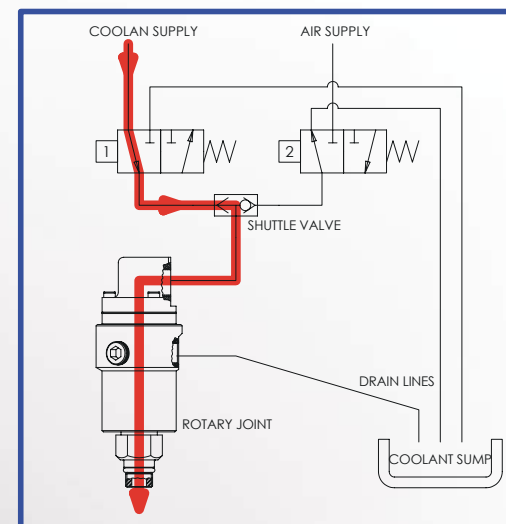
- High precision four linear guideways on Y axis to support heavy load.
- 3 axes roller linear guideways are standard accessories.
- Z axis servo motor upgrade to 7kw, without counter balancing to ensure stable movement in Z axis.
- Big machine but able to be loaded by HQ container. The design reduce machine space and substantially economizes the packing transportation cost.

OPTIONAL ACCESSORIES

CUTTING WITH AIR THROUGH SPINDLE



CUTTING WITH COOLANT THROUGH SPINDLE

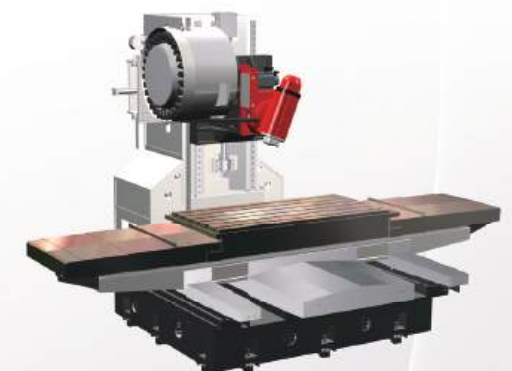


JHV-1800 / JHV-2000



- Linear guideways on X, Y axes, less friction, rapid traverse movement. Box way on Z axis, strengthen cutting ability. JHV-1800/2000 rapid set on 20/20/15M/min.
- Pre-consideration of environmental concept, machine body design can separate oil and water, decrease the injury of nature and easily clean up. Oil Mist Collector or Dust Vacuum Cleaner are available as options.
- The column bottom with U-shaped design, is extended span guarantee heavy load and superior stability.
- The product is analyzed and designed by the advanced Finite Element Analysis; box-cage-type structures to ensure the high quality.

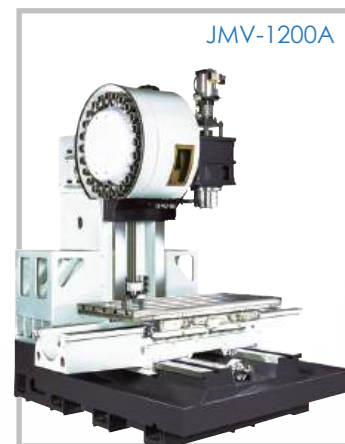
JHV-1800U / JHV-2000U



- Machine with Swivel head (B axis) uses a high-precision, worm-wheel module design which is self-locking and has high rigidity. The minimum angle is 0.001° and max. swiveling range is $\pm 120^\circ$.
- In order to avoid collision issues between spindle and the A.T.C. while the B axis is swinging, this model adopts a movable tool magazine design. The tool magazine is equipped with linear guideways and a hydraulic cylinder drive system. After the tool change, the tool magazine will keep away from the spindle head.
- In response to diversified needs, machine can install rotary table (C axis – opt.) on work table. The variety application to shorten processing time, enhance workpiece accuracy and increase production efficiency.

Square Guideway Series

JMV-1100 / JMV-1200A



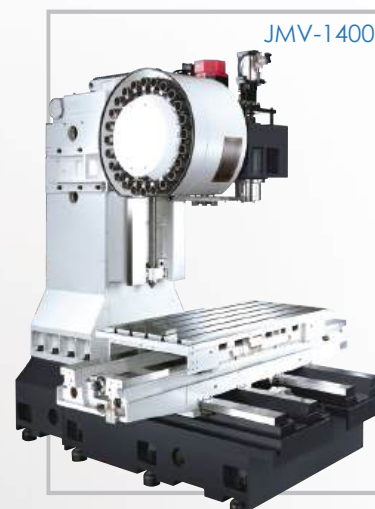
JMV-1600 / JMV-1800



DESIGNED FOR MOLD & DIE OR PRECISE PARTS MACHINING !

- Fully supported 4-way bed, rigid column provides best support for heavy cutting.
- Full enclosed splash guard with wider door opening.
- 6000rpm Gear driven(Optional) is available for efficient roughing and precise finishing.
- Pre-tensioned C3 ball screws with directly coupled feeding design.
- Spindle cooling system is equipped to keep continuously stable machining.
- All structural mating surfaces are superior scraped to ensure geometric accuracy and loading balance.
- Absolute encoder servo motors directly coupled with ball screws assure best drive performance and accuracy.

JMV-1400

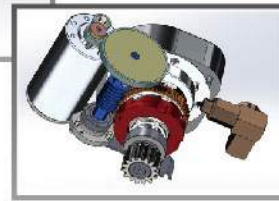
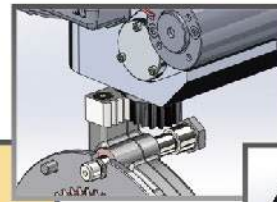
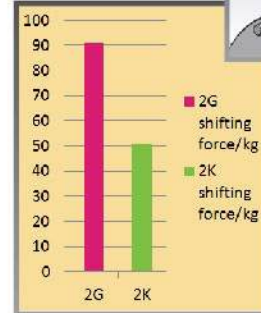
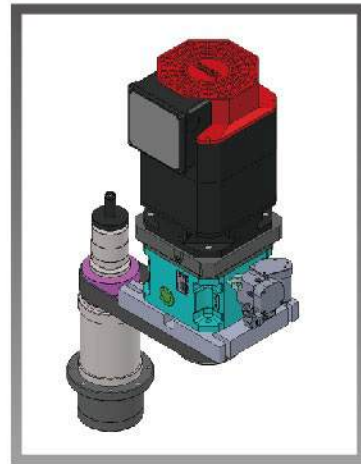


TOOLING SYSTEM

BT40	CAT40	DIN40	HSK63
BT50	CAT50	DIN50	HSK100

GTP Gearbox

The two-speed gearbox achieves output speed range, improves flexibility and machining accuracy, and effectively extends the output power of motor and increases machining torque.

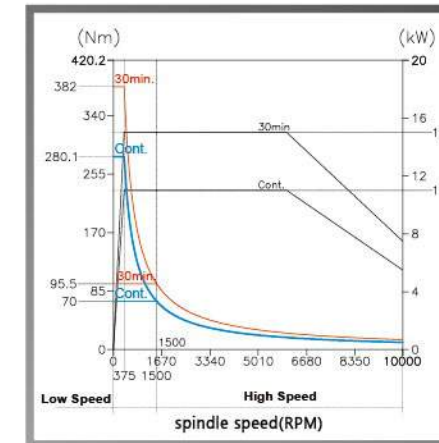


- Superior performance, less backlash, low vibration
- Reduced thermal growth, reliable shift performance
- High torque, High efficiency

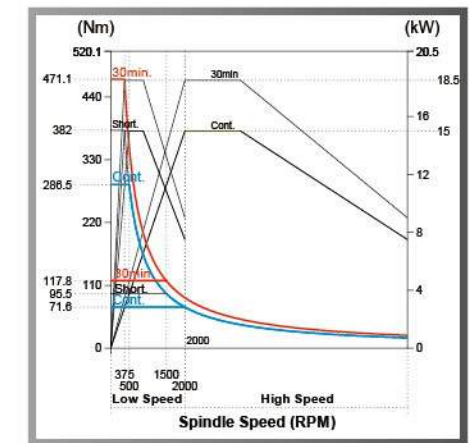
Power Chart

Model:
for linear guideway series
& JMV-1100
(optional)

α12i + 2G Gear box



β15i + 2G Gear box



2 Steps Gear driven

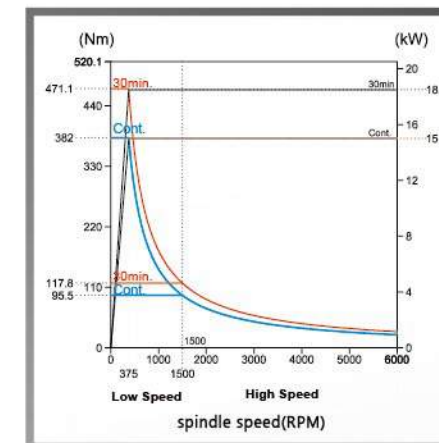
Spindle is driven by two-steps gear shifting with high power, the spindle motor produces super-strong cutting rate. It adopts JIS 1 (DIN 5) level gears with various gears, bearings and spindle oil cooling system, which advance high transmission efficiency, low noise, less thermal deformation and long service life.



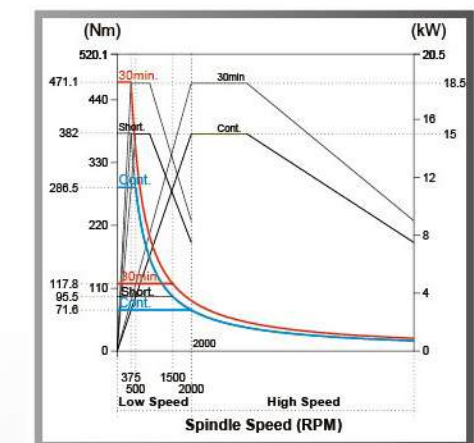
Power Chart

Model:
JMV-1200A/JMV-1400
JMV-1600/JMV-1800
(optional)

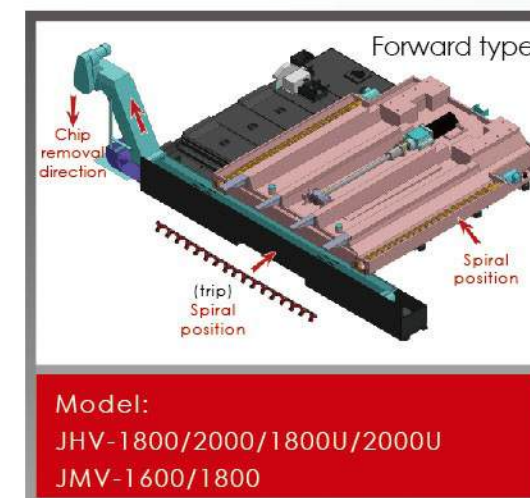
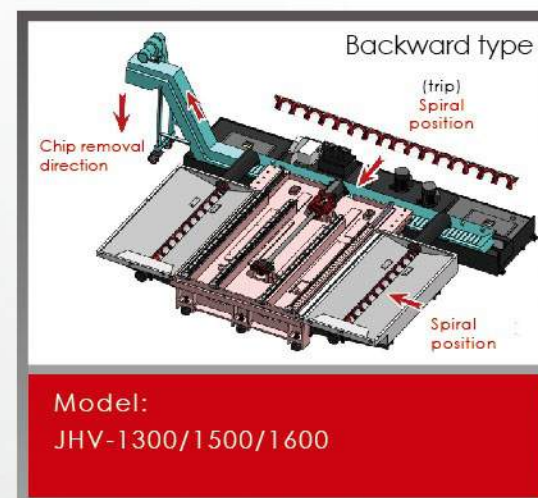
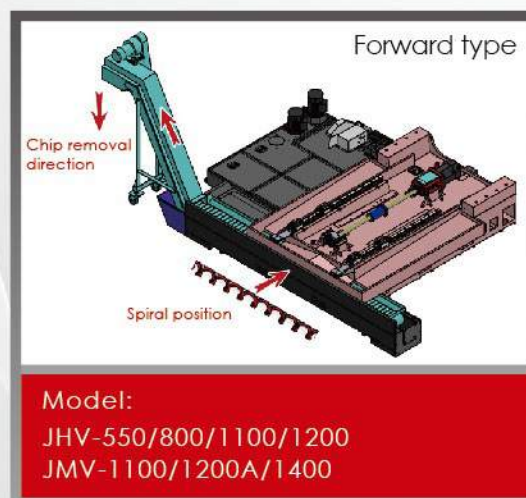
α15i + Gear driven



β15i + Gear driven



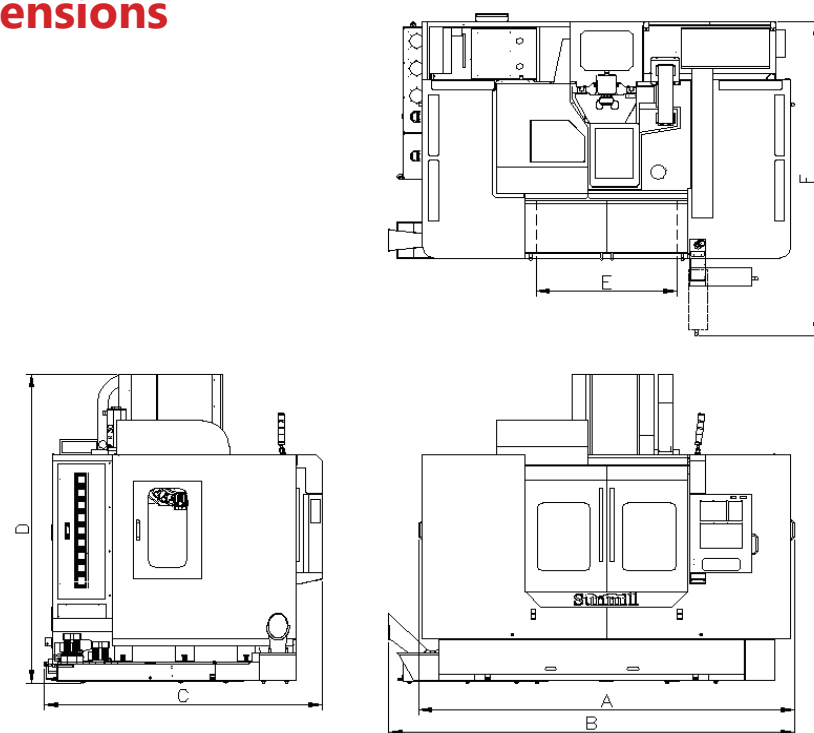
Chip conveyor



- Standard accessory: screw type chip conveyor
- Optional accessory: chain type chip conveyor



Machine Dimensions



MODEL/ITEM	A	B	C	D	E	F
JHV-550	2010	2400	2450	Min.2190	Max.2650	700
JHV-800	2150	2450	2570	Min.2220	Max.2800	670
JHV-1020	3010	3450	2650	Min.2270	Max.2920	1140
JHV-1100	3470	3750	2570	Min.2340	Max.2950	1300
JHV-1200	3470	3750	2570	Min.2340	Max.2950	1300
JHV-1300	4000	4680	4070	Min.2220	Max.2970	1500
JHV-1500	4000	4680	4070	Min.2220	Max.2970	1500
JHV-1600	4000	4680	4070	Min.2270	Max.2970	1500
JHV-1800	5260	5710	4450	Min.2600	Max.3350	2180
JHV-2000	5260	5710	4450	Min.2600	Max.3350	2180
JHV-1800U	5260	5710	4450	Min.2600	Max.3350	2180
JHV-2000U	5260	5710	4450	Min.2600	Max.3350	2180
JMV-1100	3050	3470	2580	Min.2280	Max.2880	1120
JMV-1200A	3270	3600	2580	Min.2350	Max.2950	1200
JMV-1400	3890	4120	3900	Min.2235	Max.2845	1420
JMV-1600	4250	4900	3750	Min.2610	Max.3360	1750
JMV-1800	4650	5100	3750	Min.2610	Max.3360	1950

Specifications

MODEL	UNIT	JHV-550	JHV-800	JHV-1020
3-axis travel		Linear Guideway Series	Linear Guideway Series	Linear Guideway Series
X axis travel	mm	550	800	1020
Y axis travel	mm	400	500	600
Z axis travel	mm	460	580	580
Distance from spindle nose to table surface	mm	120-580	120-700	120-700
TABLE				
Table area	mm	650x410	900x500	1190x580
Max. table load	kgs	250	500	800
T-slot	mm	3x14x100	5x18x100	4x18x125
SPINDLE				
Spindle taper	type	BT-40	BT-40	BT-40
Belt type	rpm	10000	10000	10000
Direct type-opt.	rpm	10000/12000/15000	10000/12000/15000	10000/12000/15000
Spindle motor	kw	5.5/7.5	5.5/7.5	7.5 / 11
Spindle cooling	type	oil cooler	oil cooler	oil cooler
FEED RATE				
Rapid traverse(X,Y,Z)	m/min	36/36/36	30/30/24	30 / 30 / 24
Cutting feed rate	mm/min	1-15000	1-15000	1-15000
X,Y,Z axes servo motor (FANUC)	kw	1.2/1.2/3.0	1.2/1.8/3.0	1.8 / 1.8 / 3.0
X,Y,Z axes servo motor (Mitsubishi)	kw	1.5/1.5/2	1.5/1.5/2	3.5 / 3.5 / 3.5
ATC				
Magazine type	type	Arm type	Arm type	Arm type
Tool magazine capacity	pcs	24	24	24
Max. tool diameter	mm	75/150	75/150	75 / 150
Max. tool length	mm	200	250	250
Max. tool weight	kgs	7	7	7
Tool selection	type	Random	Random	Random
OTHER				
Power consumption	KVA	20	20	20
Floor space(L x W x H)	mm	2400x2450x2650	2450x2570x2800	3450x2650x2920
Machine weight	kgs	3400	4500	6800



Design and specifications are subject to change without prior notice.

Specifications

MODEL	UNIT	JHV-1100		JHV-1200		JHV-1300		JHV-1500		JHV-1600		JHV-1800		JHV-2000		JHV-1800U		
3-axis travel		Linear Guideway Series		Linear Guideway Series		Linear Guideway Series		Linear Guideway Series		Linear Guideway Series		Linear Guideway + Box way Series						
X axis travel	mm	1100		1200		1300		1500		1600		1800		2000		1800		
Y axis travel	mm	650		650		750		750		750		900		900		900		
Z axis travel	mm	610	810 [BT40] opt.	720 [BT50] opt.		700 [850] opt.		700 [850] opt.		700 [850] opt.		750 [1000] opt.		750 [1000] opt.		750 [1000] opt.		
Distance from spindle nose to table surface	mm	120-730	120-930	150-870		100-800 [100-950 opt.]		100-800 [100-950 opt.]		100-800 [100-950 opt.]		150-900 [150-1150 opt.]		150-900 [150-1150 opt.]		150-900 [150-1150 opt.]		
TABLE																		
Table area	mm	1250x630		1350x630		1350x750		1550x750		1650x750		1850x900		2050x900		1850x900		
Max. table load	kgs	800		800		1000		1000		1200		2500		3000		2500		
T-slot	mm	5x18x100		5x18x100		5x18x150		5x18x150		5x18x150		6x18x145		6x18x145		6x18x145		
SPINDLE																		
Spindle taper	type	BT-40 [BT-50 opt.]		BT-40 [BT-50 opt.]		BT-40[BT-50 opt.]		BT-40[BT-50 opt.]		BT-40[BT-50 opt.]		BT-50		BT-50		BBT-40 / HSKA63(opt.)		
Belt type	rpm	10000		10000		10000		10000		10000		6000		6000		Built-in		
Direct type-opt.	rpm	10000/12000/15000		10000/12000/15000		10000/12000/15000		10000/12000/15000		10000/12000/15000		10000		10000		15000		
Spindle motor	kw	7.5 / 11		7.5 / 11		11 / 15		11 / 15		11 / 15		15 / 18.5		15 / 18.5		15 / 18.5		
Spindle cooling	type	oil cooler		oil cooler		oil cooler		oil cooler		oil cooler		oil cooler		oil cooler		oil cooler		
FEED RATE																		
Rapid traverse(X,Y,Z)	m/min	30 / 30 / 24		30 / 30 /24		24 / 24 / 24		24 / 24 / 24		24 / 24 / 24		20 / 20 / 15		20 / 20 / 15		20 / 20 / 15		
Cutting feed rate	mm/min	1-15000		1-15000		1-15000		1-15000		1-15000		1-10000		1-10000		1-10000		
X,Y,Z axes servo motor (FANUC)	kw	3 / 3 / 3		3 / 3 / 3		4 / 4 / 7		4 / 4 / 7		4 / 4 / 7		7 / 7 / 7		7 / 7 / 7		7 / 7 / 6		
X,Y,Z axes servo motor (Mitsubishi)	kw	3.5 / 3.5 / 3.5		3.5 / 3.5 / 3.5		4.5 / 4.5 / 7		4.5 / 4.5 / 7		4.5 / 4.5 / 7		7 / 7 / 7		7 / 7 / 7		—		
ATC																		
Magazine type	type	Arm type		Arm type		Arm type		Arm type		Arm type		Arm type		Chain type	Arm type	Chain type	Mobile type	Mobile type
Tool magazine capacity	pcs	24		24		24		24		24		24		32 [opt.]	24	32 [opt.]	24	30[opt.]
Max. tool diameter	mm	75 / 150		75 / 150		75 / 150		75 / 150		75 / 150		110 / 220		125 / 250	110 / 220	125 / 250	75 / 150	75 / 150
Max. tool length	mm	250		250		300		300		300		300		300	300	300	300	300
Max. tool weight	kgs	7		7		7		7		7		15		15	15	15	7	7
Tool selection	type	Random		Random		Random		Random		Random		Random		Random		Random		Random
OTHER																		
Power consumption	KVA	30		30		30 [40 opt.]		30 [40 opt.]		30 [40 opt.]		40		40		40		
Floor space(L x W x H)	mm	3750x2600x2950		3750x2600x2950		4680x4070x2970		4680x4070x2970		4680x4070x2970		5710x4450x3350		5710x4450x3350		5710x4450x3350		
Machine weight	kgs	7300		7800		9000		10000		11000		17500		18500		17500		

● Design and specifications are subject to change without prior notice

Specifications

MODEL	UNIT	JMV-1100	JMV-1200A	JMV-1400	JMV-1600	JMV-1800
3-axis travel		Box way Series	Box way Series	Box way Series	Box way Series	Box way Series
X axis travel	mm	1100	1200	1400	1600	1800
Y axis travel	mm	650	650	720	850	850
Z axis travel	mm	600 [120-720*]	600 [120-720*]	610 [150-760*]	750	750
Z axis travel(BT40)-opt.	mm	-	800 [120-920*]	700 [150-850*]	670 [120-790*]-opt.	670 [120-790*]-opt.
Z axis travel(BT50 belt type)-opt.	mm	-	720 [150-870*]	680 [170-850*]	750 [150-900*]-st.	750 [150-900*]-st.
Z axis travel(BT50 gear head)-opt.	mm	-	600 [120-720*]	680 [170-850*]	750 [150-900*]-opt.	750 [150-900*]-opt.
TABLE						
Table area	mm	1250x650	1350x650	1550x700	1800x850	2000x850
Max. table load	kgs	880	1000	2000	2000	2500
T-slot	mm	5x18x125	5x18x125	5x18x130	5x18x150	5x18x150
SPINDLE						
Spindle taper	type	BT-40	BT-40	BT-40	BT-50	BT-50
Belt type	rpm	10000	10000	10000	6000	6000
Direct type-opt.	rpm	10000/12000	10000/12000	10000/12000	Gear head 6000[opt.]	Gear head 6000[opt.]
Spindle motor	kw	7.5 / 11	7.5 / 11	11 / 15	15 / 18.5	15 / 18.5
Spindle cooling	type	oil cooler	oil cooler	oil cooler	oil cooler	oil cooler
FEED RATE						
Rapid traverse(X,Y,Z)	m/min	18 / 18 / 15	18 / 18 / 15	18 / 18 / 15	18 / 18 / 15	18 / 18 / 15
Cutting feed rate	mm/min	1-10000	1-10000	1-10000	1-10000	1-10000
X,Y,Z axes servo motor (FANUC)	kw	2.5 / 2.5 / 3	2.5 / 2.5 / 3	3 / 3 / 3	7 / 7 / 7	7 / 7 / 7
X,Y,Z axes servo motor (Mitsubishi)	kw	3.5 / 3.5 / 3.5	3.5 / 3.5 / 3.5	3.5 / 3.5 / 3.5	7 / 7 / 7	7 / 7 / 7
ATC						
Magazine type	type	Arm type	Arm type	Arm type	Arm type	Chain type[opt.]
Tool magazine capacity	pcs	24	24	24	24	32
Max. tool diameter	mm	75 / 150	75 / 150	75 / 150	110 / 220	125 / 250
Max. tool length	mm	300	300	300	300	300
Max. tool weight	kgs	7	7	7	15	25
Tool selection	type	Random	Random	Random	Random	Random
OTHER						
Power consumption	KVA	20	20	30	40	40
Floor space(L x W x H)	mm	3470x2580x2880	3600x2580x2950	4120x3900x2845	4900x3750x3360	5100x3750x3360
Machine weight	kgs	7500	8200	11000	14000	16000

● Remarks «*» : distance from spindle nose to table surface

● Design and specifications are subject to change without prior notice .

Specifications

● Basic Version ★ Option — Not possible

MODEL	JHV-550	JHV-800	JHV-1020	JHV-1100/1200	JHV-1300/1500/1600	JHV-1800/2000	JHV-1800U/2000U	JMV-1100/1200A/1400	JMV-1600/1800
Full splash guard	●	●	●	●	●	●	●	●	●
Belt type spindle speed 10000rpm,BT40	●	●	●	●	●	★	—	●	—
Arm type ATC 24 tools,BT40	●	●	●	●	●	★	●	●	★
Ring coolant for spindle	●	●	●	●	●	●	●	●	●
Cooling system	●	●	●	●	●	●	●	●	●
Air blast/release tool blast/air curtain	●	●	●	●	●	●	●	●	●
Rigid tapping	●	●	●	●	●	●	●	●	●
Auto POWER OFF	●	●	●	●	●	●	●	●	●
Auto lubrication system	●	●	●	●	●	●	●	●	●
Spindle oil cooler unit	●	●	●	●	●	●	●	●	●
Heat exchanger	●	●	●	●	●	●	●	●	●
Telescopic covers for 3 axes	●	●	●	●	●	●	●	●	●
LED Work lamp	●	●	●	●	●	●	●	●	●
LED Three-color call light	●	●	●	●	●	●	●	●	●
Tool box	●	●	●	●	●	●	●	●	●
Coolant gun	●	●	●	●	●	●	●	●	●
Air gun	●	●	●	●	●	●	●	●	●
Screw type chip conveyor+chip cart	●	●	●	●	●	●	●	●	●
Chain type chip conveyor+chip cart	★	★	★	★	★	★	★	★	★
Transformer	★	★	★	★	★	★	★	★	★
CE mark	★	★	★	★	★	★	★	★	★
Arm type ATC 30 tools,BT40	—	—	★	★	★	★	★	★	★
Chain type ATC 40 tools,BT40	—	—	—	—	★	★	—	★	★
Arm type ATC 24 tools,BT50	—	—	—	★	★	●	—	★	●
Chain type ATC 32 tools,BT50	—	—	—	—	—	★	—	—	★
Chain type ATC 40 tools,BT50	—	—	—	—	—	★	—	—	★
Belt type spindle speed 12000rpm,BT40	★	★	★	★	★	★	—	★	—
Belt type spindle speed 6000rpm,BT50	—	—	—	★	★	●	—	★	●
Direct drive spindle speed 10000/12000 rpm,BT40	★	★	★	★	★	★	—	★	★
Built- in type spindle speed 24000/30000/36000 rpm	★	★	—	—	—	—	—	—	—
Built- in type spindle speed 16000/20000/24000/30000 rpm	—	—	★	★	★	★	15000rpm	—	—
Coolant flushing device	★	★	★	★	★	★	★	★	★
Oil skimmer	★	★	★	★	★	★	★	★	★
Air conditioner for electrical cabinet	★	★	★	★	★	★	★	★	★
Coolant through spindle (With sealed splash guard)	★	★	★	★	★	★	★	★	★
Roller type linear guideway	★	★	★	★	●	●	●	—	—
Gear box	—	—	★	★	★	★	—	★ / — / —	—
Gear headstock* (Armless ATC not available)	—	—	—	—	—	—	—	— / ★ / ★	★
4th axis rotary table	★	★	★	★	★	★	★	★	★
4/5th axes tilting and rotary table	★	★	★	★	★	★	★	★	★

● Design and specifications are subject to change without prior notice