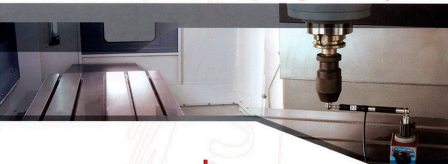


**High Precision,  
High Efficiency, High Quality!**



BOX WAY

JMV-1100

JMV-1300

JMV-1680



## EXTRA RIGID MACHINE STRUCTURE

### Oversized Column

- Increased width on the column bottom, combined with box type structure, greatly upgrades rigidity and stability during machining.
- Box slideways on the 3 axes are high frequency hardened. Way surfaces are coated with Turcite-B and precision scraped.
- Extra wide slideways and distance between slideways eliminate sticking problems at low speed travel while ensuring high stability.
- The major structures are manufactured from Meehanite cast iron with scientific rib reinforcement. This reduces structural deformation to a minimum.



Direct Drive Spindle  
Spindle Speeds:  
10,000 RPM, 12,000 RPM  
15,000 RPM

## JMV-1100 Specification:

<b>TRAVEL</b>	
X axis travel	1,100 mm
Y axis travel	600 mm/650(opt.)
Z axis travel	600 mm
Distance from table surface to spindle nose	120-720 mm
<b>TABLE</b>	
Table area	1,250 x650 mm
Max. load of table	880 kg
T-solt	5 x 18 x 125 mm
<b>SPINDLE</b>	
Spindle taper	BT40/BT50(opt.)
Spindle speed	8,000 / 6,000RPM(opt.)
Spindle drive	Timing belt
Spindle cooling	Oil cooler
Spindle motor	7.5/11KW
<b>FEED RATE</b>	
Rapid traverse(X,Y)	18 m/min
Rapid traverse(Z)	15 m/min
Cutting feed rate	1-10,000 mm/min
Servo motor (Fanuc)	2.5kw
Servo motor (Mitsubishi)	3.5kw
<b>A.T.C.</b>	
Magazine type	Carousel      Arm
Tool magazine capacity	16 pcs      24pcs
Max. tool diameter	100 /150 mm    80/150mm
Max. tool length	300mm      300mm
Max. tool weight	7 kg      7 k9
Tool selection	Fixed type    Random
<b>OTHER</b>	
Power consumption	20 KVA
Floor space (LxWxH)	2,890 x 2,240 x 2,600 mm
Machine weight	7500 kg

## Standard Accessories

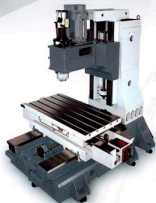
- Full splash guard
- Spindle oil cooler unit
- Cutting coolant unit
- Heat exchanger in control box
- Auto power off
- Auto lubrication system
- Air blast through spindle
- Work lamp
- Call light
- Tool box
- Carousel type ATC (16 tools)
- Screw type chip conveyor
- Rigid tapping
- Mechanical,electrical, operation manuals
- RS-232 interface

## Optional Accesories

- 4th axis interface
- CNC rotary table
- Spindle 10,000 RPM
- Spindle 12,000 RPM
- Arm type ATC (24 tools)
- Link chain type chip conveyor
- Belt type oil simmer
- ZF gear box
- Rear coolant flushing device
- Coolant through tool holder
- Transformer
- Spindle splash ring

NOTE: Specifications are subject to change without prior notice.

# JMV-1300



## HIGH PRECISION SPINDLE

- The Spindle is assembled by our highly skilled technicians. Before mounting on the machine, each spindle is subjected to a long time running test to ensure the optimum condition.
- The spindle runs on preloaded precision angular contact ball bearings and transmitted by a timing belt. Standard spindle speed is 8,000 RPM. On request, 10,000 or 12,000 RPM high speed spindles are available.



## JMV-1300 Specification:

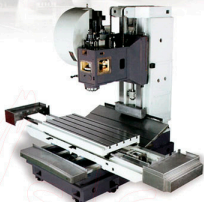
<b>TRAVEL</b>	
X axis travel	1,300mm
Y axis travel	650mm
Z axis travel	600mm
Distance from table surface to spindle nose	120-720 mm
<b>TABLE</b>	
Table area	1,450 x 650mm
Max. load of table	1000kg
T-slot	5 x 18 x 125 mm
<b>SPINDLE</b>	
Spindle taper	BT40/BT50(opt.)
Spindle speed	8,000 / 6,000RPM(opt.)
Spindle drive	Timing belt
Spindle cooling	Oil cooler
Spindle motor	7.5/11kw
<b>FEED RATE</b>	
Rapid traverse(X,Y)	18 m/min
Rapid traverse(Z)	15 m/min
Cutting feed rate	1-10,000 mm/min
Servo motor (Fanuc)	2.5kw
Servo motor (Mitsubishi)	3.5kw
<b>A.T.C.</b>	
Magazine type	Carousel      Arm
Tool magazine capacity	16 pcs      24pcs
Max. tool diameter	100 /150mm    80/150mm
Max. tool length	300mm      300mm
Max. tool weight	7 kg      7 kg
Tool selection	Fixed type    Random
<b>OTHER</b>	
Power consumption	20 KVA
Floor space (LxWxH)	3,650 x 2,240 x 2,600mm
Machine weight	8000kg
<b>Standard Accessories</b>	
<ul style="list-style-type: none"> <li>• Full splash guard</li> <li>• Spindle oil cooler unit</li> <li>• Cutting coolant unit</li> <li>• Heat exchanger in control box</li> <li>• Auto power off</li> <li>• Auto lubrication system</li> <li>• Air blast through spindle</li> <li>• Work lamp</li> <li>• Call light</li> <li>• Tool box</li> <li>• Carousel type ATC (16 tools)</li> <li>• Screw type chip conveyor</li> <li>• Rigid tapping</li> <li>• Mechanical,electrical, operation manuals</li> <li>• RS-232 interface</li> </ul>	
<b>Optional Accessories</b>	
<ul style="list-style-type: none"> <li>• 4th axis interface</li> <li>• CNC rotary table</li> <li>• Spindle 10,000 RPM</li> <li>• Spindle 12,000 RPM</li> <li>• Arm type ATC (24 tools)</li> <li>• Link chain type chip conveyor</li> <li>• Belt type oil simmer</li> <li>• ZF gear box</li> <li>• Rear coolant flushing device</li> <li>• Coolant through tool holder</li> <li>• Transformer</li> <li>• Spindle splash ring</li> </ul>	

NOTE: Specifications are subject to change without prior notice.

# JMV-1680



GEAR BOX HEADSTOCK



### JMV-1680 Specification:

<b>TRAVEL</b>	
X axis travel	1,600 mm
Y axis travel	800 mm
Z axis travel	700 mm
Distance from table surface to spindle nose	200-900 mm
<b>TABLE</b>	
Table area	1,700 x 815 mm
Max. load of table	2100 kg
T-slot	5 x 18 x 150 mm
<b>SPINDLE</b>	
Spindle taper	BT50(ISO50)
Spindle speed	6,000RPM
Spindle change of speed (two-step infinite variable)	L : 0-1000 H : 1001-6000
Spindle drive	gear type
Spindle cooling	oil cooler
Spindle motor	11 / 15KW
<b>FEED RATE</b>	
Rapid traverse(X,Y)	15 m/min
Rapid traverse(Z)	12 m/min
Cutting feed rate	1-4,000 mm/min
Servo motor (Fanuc)	4.2kw
Servo motor (Mitsubishi)	4.5kw
<b>A.T.C.</b>	
Magazine type	Arm
Tool magazine capacity	24 pcs
Max. tool diameter	128mm/200 mm
Max. tool length	300mm
Max. tool weight	15 kg
Tool selection	Random
<b>OTHER</b>	
Power consumption	40 KVA
Floor space (LxWxH)	4,600 x 3,300 x 3,300 mm
Machine weight	13,000 kg

### Standard Accessories

- Full splash guard
- Spindle oil cooler unit
- Arm type ATC (24 tools)
- Cutting coolant unit
- Heat exchanger in control box
- Auto power off
- Auto lubrication system
- Air blast through spindle
- Work lamp
- Call light
- Tool box
- Rigid tapping
- Mechanical, electrical, operation manuals
- RS-232 Interface

### Optional Accessories

- 4th axis interface
- CNC rotary table
- Link chain type chip conveyor
- Belt coolant flushing device
- Rear coolant flushing device
- Coolant through tool holder
- Transformer
- Spindle splash ring

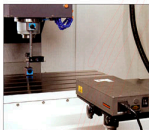
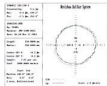
NOTE: Specifications are subject to change without prior notice.

## QC TEST PRIOR TO DELIVERY



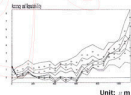
### BALL BAR TEST

Through ball bar testing, the circularity, geometry error and backlash can be accurately obtained allowing the machine to be adjusted to the best possible accuracy.



### LASER INSPECTION

An advanced laser instrument is employed for inspecting and compensating linear accuracy and pitch error. This assures optimum axis travel accuracy.



### INSPECTION TEST

- Full running test 24 hours before delivery
- Practical workpiece machining test
- Water tank leakage test
- Machine functional test

### CNC CONTROL



MITSUBISHI  
M70/M700V  
(Japan)



FANUC  
o-MD/311-MB  
(Japan)



FAGOR  
8055MA / 8055MB  
(Spain)



### CONTROL PANEL

Acrylic keys on the control panel are damage free.



### HIGH PRECISION CLASS C3

High precision class C3 ball screws are preloaded to eliminate thermal strain.



### CAROUSEL TYPE MAGAZINE (STANDARD)

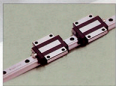
The carousel type magazine is standard equipment. It carries 16 tools for various types of machining applications. Fixed type tool selection for quick tool changing that reduces non-cutting time.



### ARM TYPE MAGAZINE (OPTIONAL)

The magazine is driven by a precision cam for rapid and stable tool change motion. Tool loading capacity provides 20 or 24 tools to choose from. Bi-directional random tool selection provides quick tool changing that reduces non-cutting time.

• STANDARD & OPTIONAL ACCESSORIES



**LINEAR MOTION GUIDE**

High precision 45mm width linear motion guide



**DIRECTLY COUPLED SERVOMOTORS**

The three axial ball screws are directly coupled to servomotors through backlash-free couplings. This ensure dependable positioning accuracy.



**COOLANT FLUSHING DEVICE (OPTIONAL)**

Three coolant nozzles are provided on both sides of the table featuring high pressure flushing to remove chips from the table



**HEAT EXCHANGER FOR CONTROL CABINET**

To maintain a constant temperature inside the control cabinet, the machine is equipped with a heat exchanger. It provides effective protection for the controller and electronic components. The high performance heat exchanger features high efficiency heat exchange and power saving



**SPINDLE OIL COOLER**

It prevents spindle thermal deformation due to oil temperature variation while ensuring high machining accuracy, especially at high spindle speeds.



**CLEAR ILLUMINATION**

The working area is equipped with one fluorescent light combined with a halogen work light. This provides clear lighting for the entire working area.

**SPINDLE**

**Belt Drive Spindle**

Spindle Speeds:  
8,000 RPM, 10,000 RPM,  
12,000 RPM



**Direct Drive Spindle**

Spindle Speeds:  
10,000 RPM, 12,000 RPM,  
15,000 RPM



**LINK CHAIN TYPE CHIP CONVEYOR**



**SCREW TYPE CHIP CONVEYOR**



**4th AXIS ROTARY TABLE**

Rotary table dia. 200 or 250mm for JMV-1100/JMV-1300  
Rotary table dia. 320 or 400mm for JMV-1680



**BELT TYPE OIL SKIMMER**

Oil-friendly belt design can remove floating oil completely from cutting coolant





## JEENXI TECHNOLOGY CO., LTD.

**Sunmill**  
*your best partner*

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