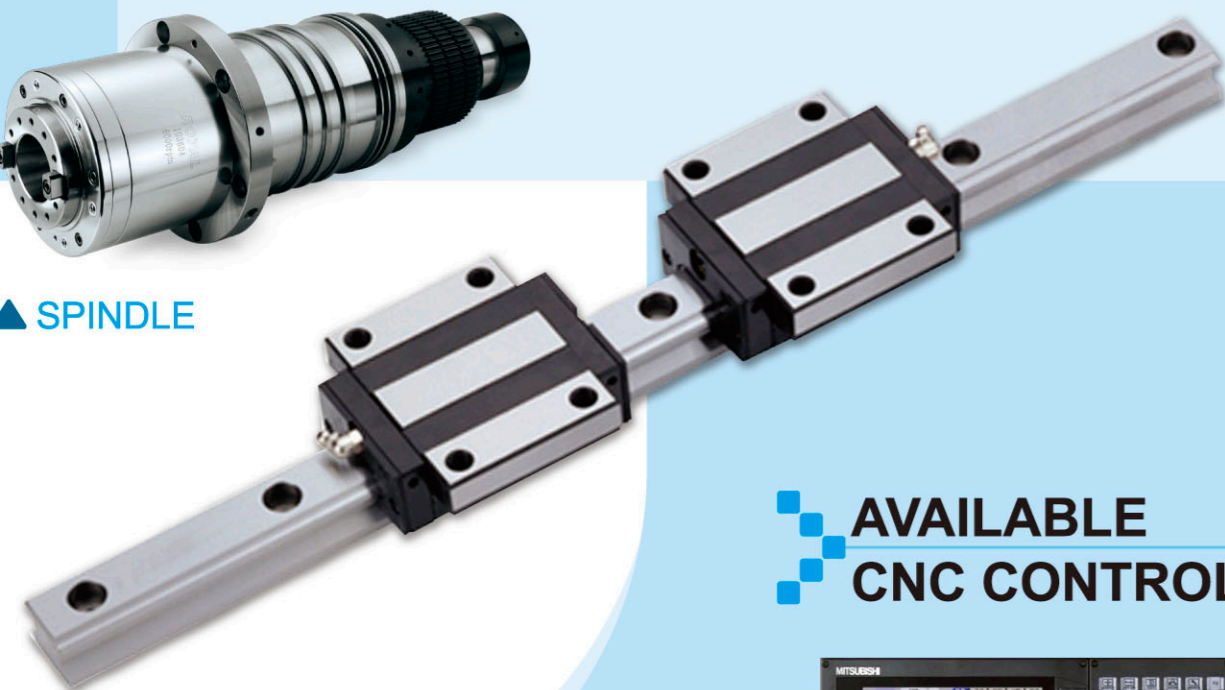


## CONSTRUCTION DESIGN WITH HIGH RIGIDITY AND HIGH PRECISION

- 1 Linear ways with zero gap arc cutting, slant cutting and average surface lines.
- 2 Linear ways with rolling movement instead of sliding movement, low friction, rapid response and high positioning accuracy.
- 3 Suitable for high speed cutting and increasing efficiency.
- 4 Adopting the spindle with high rigidity, it upgrades not only cutting accuracy but also extends working life.



▲ SPINDLE

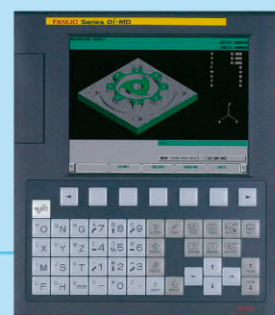


▲ LINEAR WAYS

### AVAILABLE CNC CONTROL



▲ MITSUBISHI



▲ FANUC



▲ FAGOR



▲ SIEMENS

Machine Specification		GMV-900	GMV-1100
Table	Unit		
Worktable	mm/inch	1100 x 520 / 43.3" x 20.4"	1200 x 560 / 47.2" x 22"
T-slot	mm	5 x 18 x 100	5 x 18 x 100
Table load capacity	kgs	600	800
Movement			
X axis travel	mm	900	1100
Y axis travel	mm	520	560
Z axis travel	mm	560	610
Spindle nose to table surface	mm	120-680	120-730
Spindle head			
Spindle taper		BT 40 / CAT 40 / DIN 40	
Spindle speed	rpm	8000 (Opt. 10000, 12000)	
Feed rate	m/min	1-10	
Rapid travel	m/min	30	
Ball screw diameter	mm	40	
Motors			
Spindle	kw	11 / 15	
Servo	kw	X/Y - 1.8, Z - 3	
Tool system			
Armless type	pcs	20 / 24	
Arm type	pcs	24 / 32	
Packing	cm	272 x 228 x 254	302 x 228 x 254
N.W.	kgs	5600	5800
G.W.	kgs	6000	6200

◆ Specification is subject to change without prior notice.

### Standard accessories:

- 1 Full-guarding
- 2 Auto lube system
- 3 Spindle air blast
- 4 Alarm light
- 5 Heat exchanger
- 6 Arm type ATC 24 T
- 7 Coolant unit
- 8 Screw type chip conveyor
- 9 3 axes cover
- 10 Tool box
- 11 Work lamp
- 12 Manual and part list

### Optional accessories:

- 1 Spindle oil cooler
- 2 10000, 12000 rpm spindle
- 3 Armless type ATC 20 T or 24 T
- 4 Coolant thru. spindle
- 5 4<sup>th</sup> axis & 5<sup>th</sup> axis rotary table
- 6 Power source transformer
- 7 ZF gear spindle
- 8 Belt type chip conveyor
- 9 Linear scale with 3 axes
- 10 Auto tool length measuring device
- 11 Auto work piece measuring device
- 12 CE norms

**GSM V CNC** GENG-SHUEN CO., LTD.

No. 37, 23th Rd., Taichung Ind. Park, Taichung 408, Taiwan.  
 TEL: 886-4-2358-8019 • FAX: 886-4-2358-8067  
 E-mail: genshu@ms55.hinet.net  
 Website: www.gsm-cnc.com.tw

AGENTS:



**GMV** series  
Vertical Machining Center

## GMV-900 / 1100

GSM, that provides advanced products and solutions through pursuing high efficiency and high precision



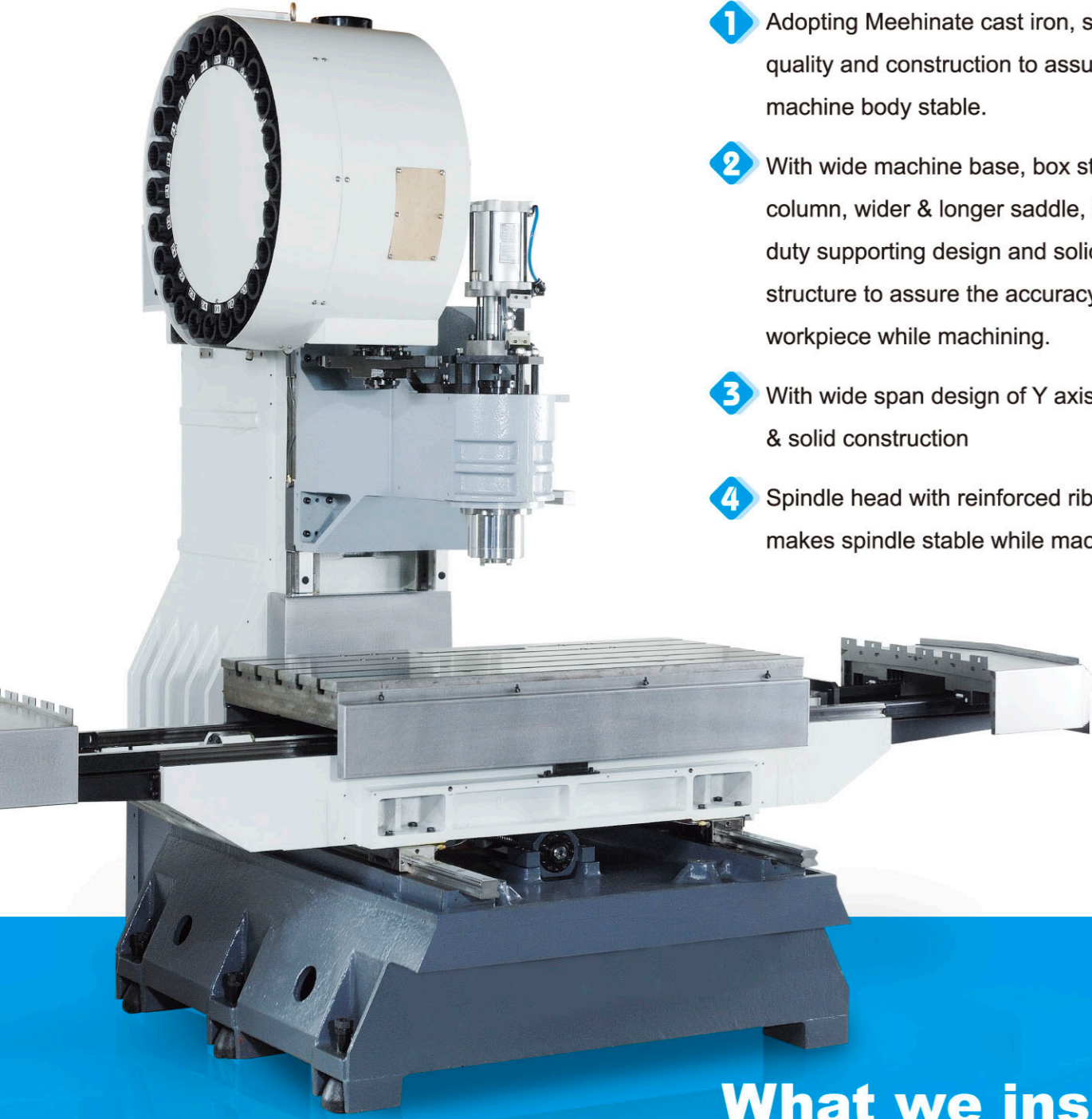
**GSM** GENG-SHUEN CO., LTD.

# HIGH SPEED

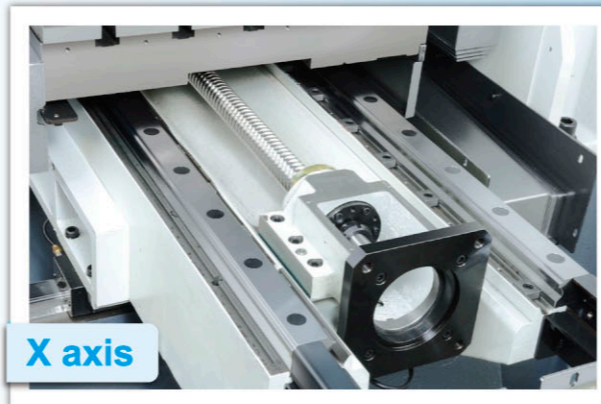
## HIGH PRECISION MACHINING CENTER

EXCELLENT DESIGN OF MACHINE CONSTRUCTION

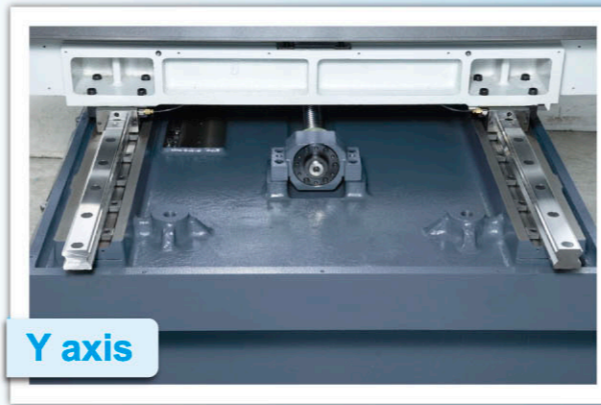
HIGH RIGIDITY / HIGH STABILITY / OUTSTANDING PERFORMANCE



- 1 Adopting Meehinat cast iron, stable quality and construction to assure machine body stable.
- 2 With wide machine base, box structure column, wider & longer saddle, heavy duty supporting design and solid structure to assure the accuracy of workpiece while machining.
- 3 With wide span design of Y axis, entire & solid construction
- 4 Spindle head with reinforced ribs makes spindle stable while machining.



X axis



Y axis



Z axis

### ◆ Three Axes Linear Ways

X, Y, Z axes are equipped with high precision linear ways with features, including low friction co-efficiency, zero gap at vertical and cross directions and resistance to full loads. It provides dynamic stability and precise position & accuracy of liner ways.

### ◆ Precision Ball Screw

The class C3 high precision ball screws with pretensioned treatment upgrades the rigidity of the transmission system and minimize positioning errors due to thermal expansion of ball screws and assure machining accuracy at all times.

### ◆ Direct-drive Ball screws

The three axes ball screws are directly driven by 3 axes servo motors through couplings to promote accuracy and repeatability accuracy.

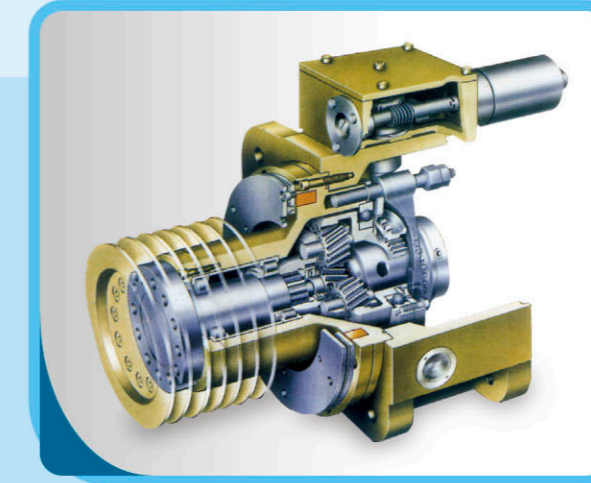
### ◆ Direct-drive on Z axis

The Z axis is directly driven by strong horse power to assure smooth and rapid movement on Z axis, immediate response and upgraded efficiency.

## What we insist

- Quality is essential factor of machine.
- Efficiency is the condition to raise production capacity.
- Service is basic attitude after selling.

# OPTIONS



▲ ZF Gear spindle



▲ Coolant thru spindle



▲ Oil skimmer



▲ 4<sup>th</sup> axis & 5<sup>th</sup> axis rotary table & tilting head



▲ Spindle oil cooler



▲ Belt type chip conveyor