GT-175V Specification

or river operations				
MODEL	T15P			
Travel (X/Y/Z)	1,100 x 720 x 500 mm			
Cutting feedrate	20 m/min			
Rapid feedrate	48 m/min			
Table area	1,200 x 720 mm		n	
T-slot	18 / 110 x 7 mm 715 mm			
Height of table from ground				
Max. Height of working piece	440 / 500 mm			
Distance from spindle nose to table surface	90 ~ 590 mm			
Max. Load of table (average load)	1,000 kg			
Max. Spindle speed	15,000 rpm			
Type of spindle motor	Direct Drive			
Bearing lubrication	Grease			
Spindle cooling	Oil Cooling			
Spindle taper	BT-40			
Spindle motor	11 / 14.75 kw			
Spindle torque	70 / 94 Nm			
Spindle bearing ins.diameter	Ø70 mm			
ATC capacity	30 tools			
ATC tool system		BT-40		
Max. Tool diameter	Ø75 mm			
Max. Tool length	300 mm			
Max. Tool weight	7 kg			
Motor of tool magazine	375 w 375 w			
Motor of CAM BOX				
Air pressure requirement	7 kgf / cm ²			
Air conditioner	960 / 1,170 w			
Spindle cooler	2,900w (50HZ) / 3,500w (60HZ)			
Automatic lubricator (slideways)	150 w			
Coolant motor	750 w			
Chip flush motor	1,580 w			
Total power consumption (Max.)	40 kw			
Coolant tank capacity	280 Liter			
Controller	SIEMENS	FANUC	HEIDENHAIN	
Servo motor for 3 axes	5.37 kw(X)	8.6 kw(X)		
	4.87 kw (Y,Z)		5.6 kw(Y) 5.1 kw(Z)	
Machine dimension	4,430 x 3,550 x 2,820 mm			
Packing dimension	4,950 x 3,300 x 3,600 mm			
Machine net weight	10,300 kg			
Machine gross weight	12,000 kg			

- * Other spindle speed also available with this machine.
- * All specification, design and characteristics shown in this catalogue are subject to change without prior notice.

Standard Accessories

- Coolant system
- Work lamp
- Toolbox
- Spindle air blow system
- Chip air blow device
- · Air conditioner for electrical cabinet
- MPG
- M30 work end indication light
- Full enclosed splash guard
- Central control lubricator
- Operation and maintenance manual
- Leveling bolts and pads
- Internet function
- Spindle heat compensation system
- Screw chip conveyor and cart
- · Coolant inner 3 axes ballscrew
- Two screw chip conveyor equipped at the base

Optional Accessories

- 3 axes optical scale
- Oil skimmer
- Oil-mist cooling system
- Auto tooling measurement
- Coolant through spindle

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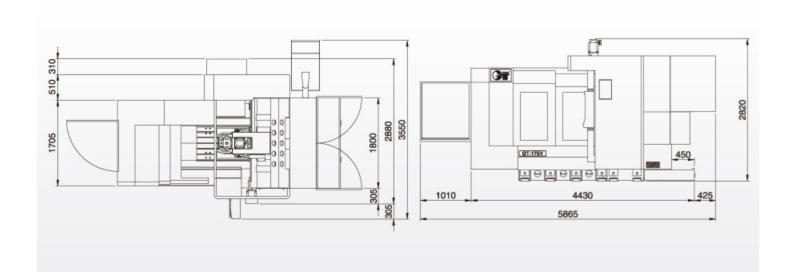
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■ Dimensional Drawings of the Machine

Unit: mm





No.1 Choice for Precision Mold Machining

High Speed Machining Center

notessional machine Aigh Speed Machine GT 175V



Gentiger Machinery Industrial Co., Ltd.



(€ ISO 9001

Gentiger GT-175V of Advanced Design Concept

Exhibiting Extraordinary Performance!

Machine Features

Rigid Structure!

• The Gentiger GT-175V features T-shape machine structure, exhibiting superior rigidity. The width of column is the same as the base. The table is independently installed on the base and is fully supported through the entire stroke. This machine offers high speed, maximum stability and high precision, providing a competitive edge in small type precision mold and die machining.

High Quality Cast Iron Multiple Treatments

 The structural parts of GT-175V are manufactured from high quality cast iron, stress relived and seasoning treated for the deformation-free performance year after year.

Roller Type Linear Guide Ways on Three axes

- Precision roller type linear guide ways on 3 axes achieve high loading resistance, high rigidity and long service life. Another benefit is that the machine provides the best dynamic accuracy at high
- · 3 axes cutting feedrate: 20 m/min.
- 3 axes rapid feedrate: 48 m/min.
- Positioning accuracy: 0.004 / 300 mm (Equipped with optical scale)
- Repeatability: ±0.003 mm (Equipped with optical scale)

Choice of Various High Precision, High Speed, High Efficiency Spindle

T15P

Direct Drive Spindle BT-40 Oil Circulated Cooling

- Maximum spindle speed: 15,000 rpm
- · Bearing lubrication: Grease
- Spindle motor: 11/14.75 kW
- Spindle torque: 70/94 Nm
- Spindle inner diameter: Ø70 mm
- High precision ceramic bearings
- *Other spindle speed also available with this machine.

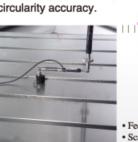


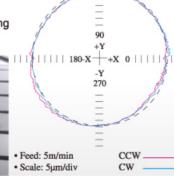




A high precision Renishaw ball bar tester is used for inspecting servo accuracy and geometric errors between two axes, thereby ensuring outstanding circularity accuracy.











Conveyor There is one conveyor each equipped at each side of base, delivering chips to a chip conveyor for

exhausting chips out of the

Ballscrew Coolant inner ballscrews on

3 axes prevent ballscrew deformation, while assuring smooth feed motions and high positioning accuracy.

Outstanding Mold Machining Capability



