



Travel paths	G700	G1000
X-axis (mm)	750	1,020
Y-axis (mm)	600	700
Z-axis (mm)	500	
Distance from table to spindle nose (mm)	150 ~ 650	180 ~ 680
Distance between columns (mm)	850	1,080
<b>Table</b>		
Size (mm)	810 x 620	1,050 x 700
Maximum table load (kg)	500	800
T-slots (mm) number x width x distance	5 x 18 x 125	6 x 18 x 125
<b>Spindle</b>		
Type	Motor spindle	
Spindle speed (rpm)	25,000	
Motor output in kW (cont. /S6 - 40%)	20 / 26	
Spindle tool holder	HSK-E50	
<b>Feed</b>		
High speed (m/min) X/Y/Z-axis	30 / 30 / 30	
Machining feed (mm/min)	20,000	
Output (kW) of X/Y/Z-axis	5.1 / 5.1 / 5.1	5.1 / 5.4 / 5.1
<b>Tool changer and magazine</b>		
Tool changer type	Swivel head	
Magazine positions	24	30
Max. tool dia. (mm) – next position occupied/empty	75 / 120	
Max. tool length (mm)	300	
Max. tool weight (kg)	7	
<b>General data</b>		
Compressed-air system (bar)	6	
Electrical connection (kVA/ A)	50 / 125	
Net weight of machine (kg)	7,000	9,100
Max. installation space (mm) W x L x H	2,890 x 4,510 x 2,870	3,950 x 4,600 x 2,950

All listed specifications refer to machines with the standard scope of delivery. Depending on selected options, machine data may be different. You can obtain detailed information from your dealer or Takumi sales representative.



The industry standard

# G SERIES

G700 | G1000

The industry standard | [www.takumicnc.eu](http://www.takumicnc.eu)

## HIGH-SPEED GRAPHITE MACHINING CENTERS



A member of HURCO companies  
Gewerbestrasse 5 a, 85652 Pliening / Germany  
Phone: +49-89-90 50 94 - 99  
Fax: +49-89-90 50 94 - 90  
info@takumicnc.de  
www.takumicnc.eu

Standard

- > Heidenhain TNC 640 control system
- > Absolute position measuring systems
- > System for thermal spindle expansion compensation
- > Graphite extraction system
- > Complete encapsulation of the working area
- > Ethernet interface

Optional

- > Touch probe system for workpiece measurement
- > Touch probe system for tool measurement
- > Programmable cooling air through spindle
- > Programmable external cooling air
- > Electronic handwheel

One-of-a-kind performance and accuracy

- > First-class performance for high-speed applications in the areas of tool-making and mold-making or aerospace applications
- > Stable and rigid portal structure with resistance to high temperatures
- > Designed for workpieces that require maximum speed, accuracy and surface quality
- > Low distance between spindle and portal structure lowers projection
- > Portal frame in a ladder-type construction improves the load distribution of the spindle head
- > Swiveling control unit for optimal use of space
- > Doors open extra-wide for easier loading and unloading
- > Generously dimensioned cabin windows for optimal view
- > Rugged precision-machined cast components
- > Roller guides on all axes for additional rigidity
- > Dust protection for guide paths and ball screws
- > Pre-tensioned ball screw double nuts for higher accuracy
- > Absolute direct measuring systems for fast machine startup
- > Inline high-speed spindles
- > Built-in high-speed motor spindle



Standard

- > Plain text programming
- > ISO NC programming
- > FK free contour programming
- > Expanded milling and boring cycles
- > Touch probe system cycles
- > Programming in parallel mode
- > Integrated help system
- > Simulation graphics
- > Block scan of up to 1,024 blocks
- > Block processing time of 0.5 ms
- > ≥21 GB data memory capacity
- > ≥2 GB RAM
- > 15.1-inch LCD display
- > Smallest input increment of 0.01µm or 0.0001°
- > 2x gigabit Ethernet adapter
- > 4x USB ports
- > RS-232-C and RS-422 interface
- > Expanded data interface for remote access
- > Lift-off function in case of power failure

Optional

- > DXF converter
- > CAD viewer
- > Dynamic collision monitoring (DCM)
- > Heidenhain DNC
- > Remote Desktop Manager
- > Expanded tool management
- > Dynamic precision
- > Dynamic efficiency



Image source: HEIDENHAIN

- > Astronautics
- > Aviation
- > Automotive
- > Energy
- > Machines and systems
- > Tool-making and mold-making
- > Medical technology
- > Optics
- > Science and research



Since the company's founding in 1988, Takumi has been dedicated to the development, production and technical application of high-speed machining centers. The most important markets are Europe, America, Taiwan and China.

Takumi develops and produces CNC high-speed portal machining centers primarily for tool-making and mold-making. The company knows the requirements of customers well. It strives to provide a complete product line and fulfill these diverse customer requirements.

All products are developed based on market analyses and are thus geared toward customer requirements.

Furthermore, Takumi has maintained long-term partnerships with important suppliers. All the components used in these machines originate from first class brand manufacturers and specialist suppliers. Takumi produces high-quality and highly efficient machines in accordance with the quality management standard ISO 9001:2008.

In July 2015, Takumi was acquired by HURCO, the American CNC machinery manufacturer. HURCO is based in Indianapolis, Indiana (USA), and has production operations in Taiwan, Italy and China. The company sells its products in Europe, Asia and North America. HURCO GmbH Germany in Plening, near Munich, is a HURCO subsidiary with a key function: the sales and customer support for all of Europe are managed from this location. The subsidiary in Germany was established in 1988 and now employs just under 100 people. | [www.hurco.de](http://www.hurco.de)

