

The Industry Standard

G SERIES

G700 | G1000

HIGH SPEED BRIDGE TYPE
GRAPHITE MACHINING CENTERS



A member of HURCO companies

Outstanding Surface Finish, Precision and Throughput

Standard:

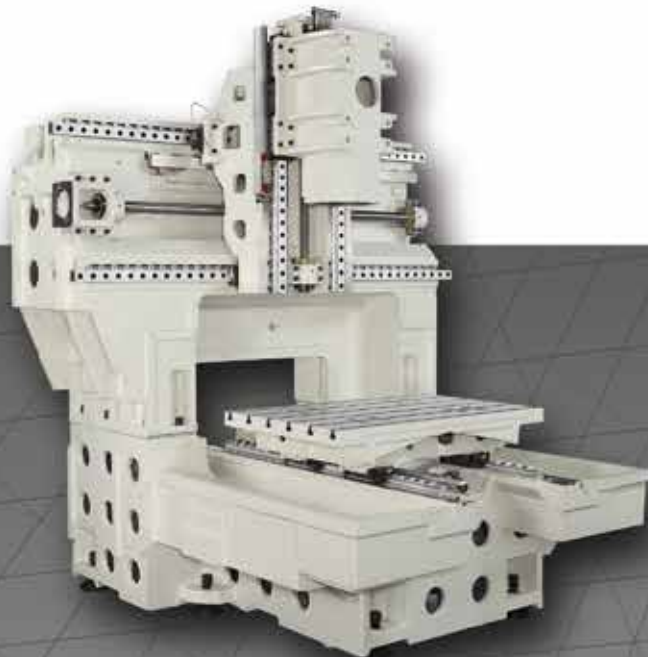
- > Heidenhain iTNC 530 Control
- > Linear Scales
- > 25,000 RPM, HSK-E50, built-in motor spindle
- > Spindle thermal compensation system
- > 24T arm Type ATC (G700)
- > 30T arm Type ATC (G1000)
- > Dust collector
- > Full enclosure
- > Ethernet interface

Optional:

- > Part probe measuring system
- > Tool probe measuring system
- > Programmable airblow machining
- > Manual pulse generator (MPG)

Unrivalled Performance + Accuracy

- > World-class performance for die & mold, aerospace and other high speed applications
- > Extremely rigid and thermally stable double-column design
- > Designed for parts that require outstanding speed, accuracy and surface finish
- > Close proximity of spindle to bridge casting reduces overhang
- > Ladder design of bridge provides greater support for the head casting
- > Swiveling control panel for optimal floor space utilization
- > Extra-wide door openings, for easier loading and unloading
- > Large windows, for optimal visibility
- > Robust, precision machined castings
- > Roller-type rails on all axes for added rigidity
- > Full dust enclosure for guide ways and ballscrews
- > Direct-coupled ballscrews, for increased accuracy
- > Absolute linear encoders for fast start-up
- > Inline high-speed spindles

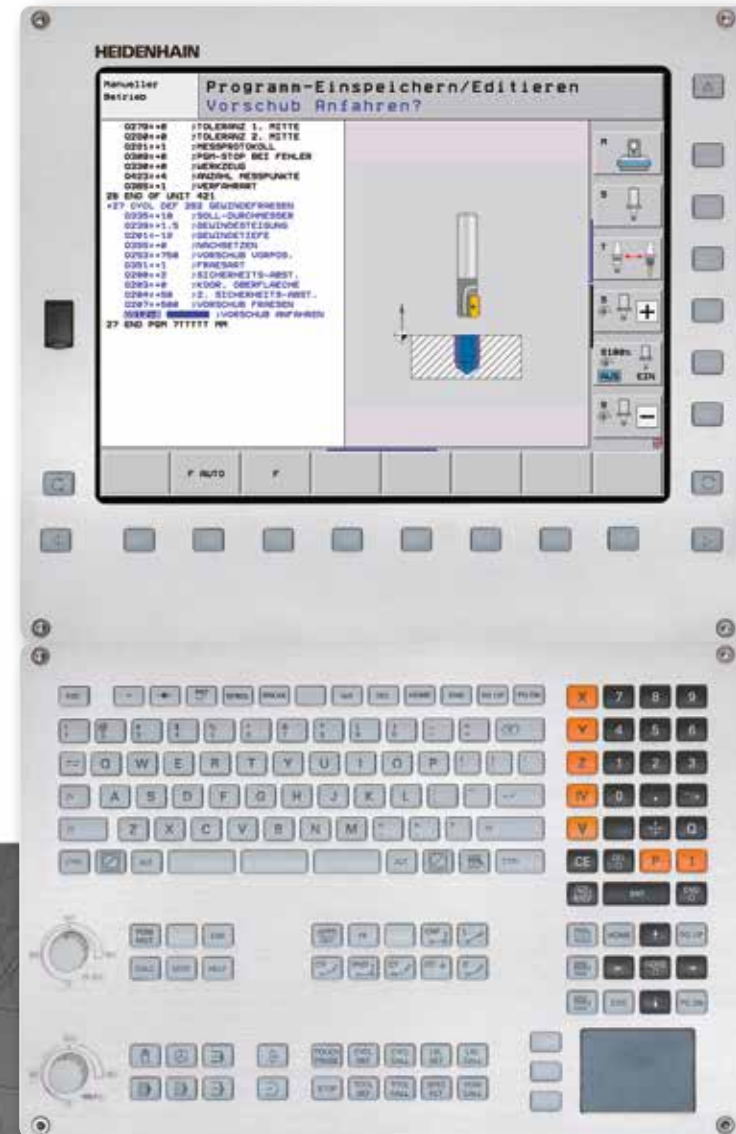


Standard

- > Conversational programming
- > ISO NC programming
- > FK free contour programming
- > Extended milling and drilling cycles
- > Touch probe cycles
- > Parallel operation
- > Integrated help system
- > Program verification graphics
- > 1024 Block Look Ahead
- > 0,5 ms Block Processing Time
- > ≥21 Gigabyte Data Storage
- > ≥2GB RAM
- > 15,1" LCD Display
- > Least Input Increment 0,0001mm, 0,0001°
- > 2x Gigabit Ethernet adapter
- > 4x USB port
- > RS-232-C & RS-422 port
- > Extended data interface for remote control

Optional

- > DXF converter
- > CAD viewer
- > Adaptive Feed Control (AFC)
- > Dynamic Collision Monitoring (DCM)
- > Heidenhain-DNC
- > Remote Desktop Manager
- > Extended Tool Management
- > Dynamic Precision



Industries

About TAKUMI



- > Aerospace
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- > Machinery
- > Die & Mold
- > Medical
- > Optics
- > Science



Since the company's foundation in 1988 Takumi has been dedicated to the development, production and application technology of high speed machining centers, with sales primarily in Europe, America, Taiwan and China.

Takumi designs and manufactures CNC high speed portal machining centers, mainly for the die and mold industry. Takumi exactly knows the customers' requirements and strives to provide a complete product line and fulfill diverse customer needs.

All products are designed on the basis of market analysis resulting in customer-oriented product designs.

Besides, Takumi has been building long-term partnerships with key suppliers. All the components used are from first-class manufacturers and professional suppliers. Takumi produces high-quality and high-efficiency machines in accordance with ISO 9001:2008 quality management system.

In July 2015 Takumi was acquired by US-based CNC machines manufacturer HURCO. HURCO is headquartered in Indianapolis (Indiana) in the United States with production facilities in Taiwan, Italy and China and sells its products in Europe, Asia and North America. HURCO GmbH Deutschland in Pliening near Munich is a HURCO subsidiary that performs an important function by handling sales and customer support throughout Europe from its key location. The subsidiary in Germany was established in 1988 and now employs almost 100 people | www.hurco.eu



Technical Specifications



All data listed here are based on machines with standard accessories. The machine data may vary depending on the option selected. For detailed information please refer to your local dealer or Takumi sales representative.

Travel	G700	G1000
X-Axis (mm)	750	1.020
Y-Axis (mm)	600	700
Z-Axis (mm)	500	
Distance spindle nose to table (mm)	150 ~ 650	180 ~ 680
Distance between columns (mm)	850	1.080
Table		
Dimensions (mm)	810 x 620	1,050 x 700
Max. Load (kg)	500	800
T-slot (mm) quantity x width x pitch	5 x 18 x 125	6 x 18 x 125
Spindle		
Type	Motorspindle	
Spindle Speed (rpm)	25,000	
Motor Power in kW (cont./30 min)	18.5 / 22	
Spindle Taper	HSK-E50	
Feed Rate		
Rapid Traverse (m/min) X/Y/Z-Axis	32 / 32 / 32	
Cutting Feed Rate (mm/min)	20,000	
Power (kW) X/Y/Z-Axis	3.5 / 3.5 / 3.5	
ATC & Magazine		
ATC type	Swing-Arm	
Magazine Capacity	24	30
Maximum Tool Diameter (mm) full / next pocket empty	76 / 120	
Maximum Tool Length (mm)	250	
Maximum Tool Weight (kg)	3	
Space & System Requirements		
Air Requirements (bar)	6 - 8	
Electrical Power Consumption (kVA/ A)	50 / 125	
Machine Net Weight (kg)	7,000	9,100
Maximum Floor Space (mm) W x L x H	3,950 x 4,600 x 2,950	3,950 x 4,600 x 2,950



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