

The Industry Standard

H SERIES

H7 | H10 | H12 | H13 | H16 | H22 | H32

HIGH SPEED BRIDGE TYPE
MACHINING CENTER



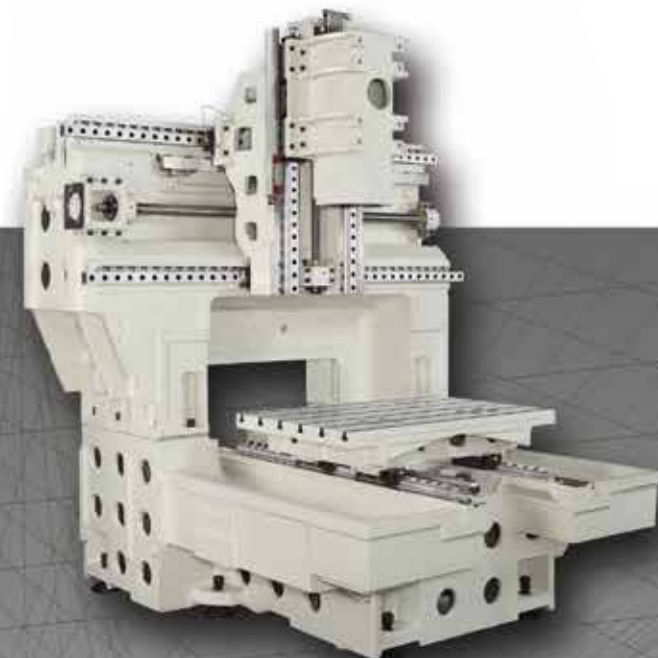
A member of HURCO companies

Outstanding Surface finish, Precision and Throughput



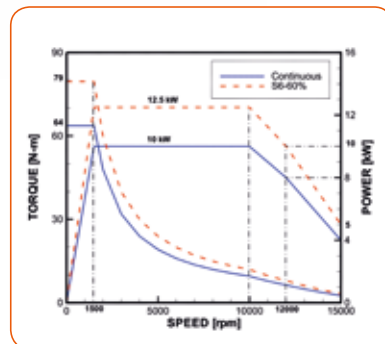
Unrivalled Performance + Accuracy

- > 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
- > Integrated washdown and chip management system
- > Direct-coupled ballscrews, for increased accuracy
- > Absolute linear encoders for fast start-up
- > Inline high-speed spindles



H-Spindle

High Performance



H-Accessories

High Accuracy

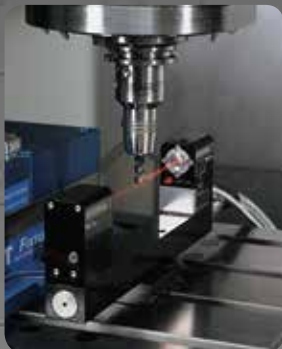
Standard:

- > Heidenhain iTNC 530 Control
- > Linear Scales
- > 15,000 RPM, CAT/BT40, inline spindle
- > Spindle thermal compensation system
- > 24T arm type ATC (H7)
- > 30T arm type ATC (H10-H32)
- > Coolant washdown system
- > Spindle chiller
- > Full enclosure
- > Coolant through Spindle (CTS 20 bar)
- > Oil Skimmer
- > Wash-down gun and air gun
- > Chip conveyor and cart
- > Ethernet interface

Optional:

- > Rotary table (4th/5th axis)
- > Oil mist device
- > Oil mist collector
- > Ballscrew cooling system
- > Part probe measurement system
- > Tool probe measurement system
- > Programmable airblow machining
- > Manual pulse generator (MPG)
- > Further spindles available
20.000 / 24.000 / 36.000* min⁻¹*

* H7 / H10



Technical Specifications



H10



H12



H16

Travel	H7	H10	H12	H13	H16
X-Axis (mm)	750	1,020	1,350	900	1,600
Y-Axis (mm)	600	700	950	1,300	
Z-Axis (mm)	500		600	700	
Distance from spindle nose to table (mm)	150 ~ 650	180 ~ 680	200 ~ 800	Direct: 150 - 850 / Motorspindle: 190 - 890	
Distance between columns (mm)	850	1,080	1,060	1,500	
Table					
Dimensions (mm)	810 x 620	1,050 x 700	1,500 x 960	900 x 1,400	1,900 x 1,300
Max. Load (kg)	500	800	1,800	3,500	6,000
T-slot (mm) quantity x width x pitch	5 x 18 x 125	6 x 18 x 125	6 x 22 x 160	5 x 22 x 160	8 x 22 x 160
Spindle					
Type	Direct-Drive				
Spindle Speed (min ⁻¹)	15,000				
Motor Power in kW (cont./30 min)	10 / 14				
Spindle Taper	HSK63				
Feed Rate					
Rapid Traverse (m/min) X/Y/Z-Axis	30 / 30 / 30				
Cutting Feed Rate (mm/min)	20,000				
Power (kW) X/Y/Z-Axis	4.5 / 4.5 / 4.5		7.0 / 4.5 / 7.0	5.5 / 5.5 / 5.5	14.0 / 5.5 / 5.5
ATC & Magazine					
ATC Type	Swing-Arm				
Magazine Capacity	24	30			
Maximum Tool Diameter (mm) full / next pocket empty	80 / 150	76 / 150			
Maximum Tool Length (mm)	300				
Maximum Tool Weight (kg)	7				
Space & System Requirements					
Air Requirements (bar)	6-8				
Electrical Power Consumption (kVA/A)	50 / 125		60 / 160	75 / 160	
Machine Net Weight (kg)	7,000	9,100	13,000	18,000	22,000
Maximum Floor Space (mm) W x L x H	3,530 x 4,220 x 2,760	4,520 x 4,290 x 2,830	5,020 x 5,330 x 3,500	5,620 x 4,640 x 3,940	5,780 x 5,210 x 3,980

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	H22S	H22T	H32S	H32T
X-Axis (mm)	2,200		3,200	
Y-Axis (mm)	1,650	2,250	1,650	2,250
Z-Axis (mm)	800			
Distance from spindle nose to table (mm)	Direct: 150 ~ 950 / Motorspindle: 190 - 990			
Distance between columns (mm)	1,750	2,350	1,750	2,350
Table				
Dimensions (mm)	2,400 x 1,600	2,400 x 2,100	3,320 x 1,600	3,320 x 2,100
Max. Load (kg)	8,000		8,500	
T-slot (mm) quantity x width x pitch	8 x 22 x 200	10 x 22 x 200	8 x 22 x 200	10 x 22 x 200
Spindle				
Type	Direct-Drive			
Spindle Speed (min ⁻¹)	15,000			
Motor Power in kW (cont./30 min)	15 / 18.5			
Spindle Taper	HSK63			
Feed Rate				
Rapid Traverse (m/min) X/Y/Z-Axis	20 / 20 / 20	20 / 16 / 20	16 / 20 / 20	
Cutting Feed Rate (mm/min)	12,000			
Power (kW) X/Y/Z-Axis	14 / 9 / 5.5			
ATC & Magazine				
ATC Type	Swing-Arm			
Magazine Capacity	30			
Maximum Tool Diameter (mm) full / next pocket empty	76 / 150			
Maximum Tool Length (mm)	250			
Maximum Tool Weight (kg)	7			
Space & System Requirements				
Air Requirements (bar)	6-8			
Electrical Power Consumption (kVA / A)	75 / 160			
Machine Net Weight (kg)	27,000	31,000	33,000	37,000
Maximum Floor Space (mm) W x L x H	4,830 x 6,740 x 3,950	5,230 x 6,740 x 3,950	4,670 x 8,660 x 3,950	5,270 x 8,660 x 3,950



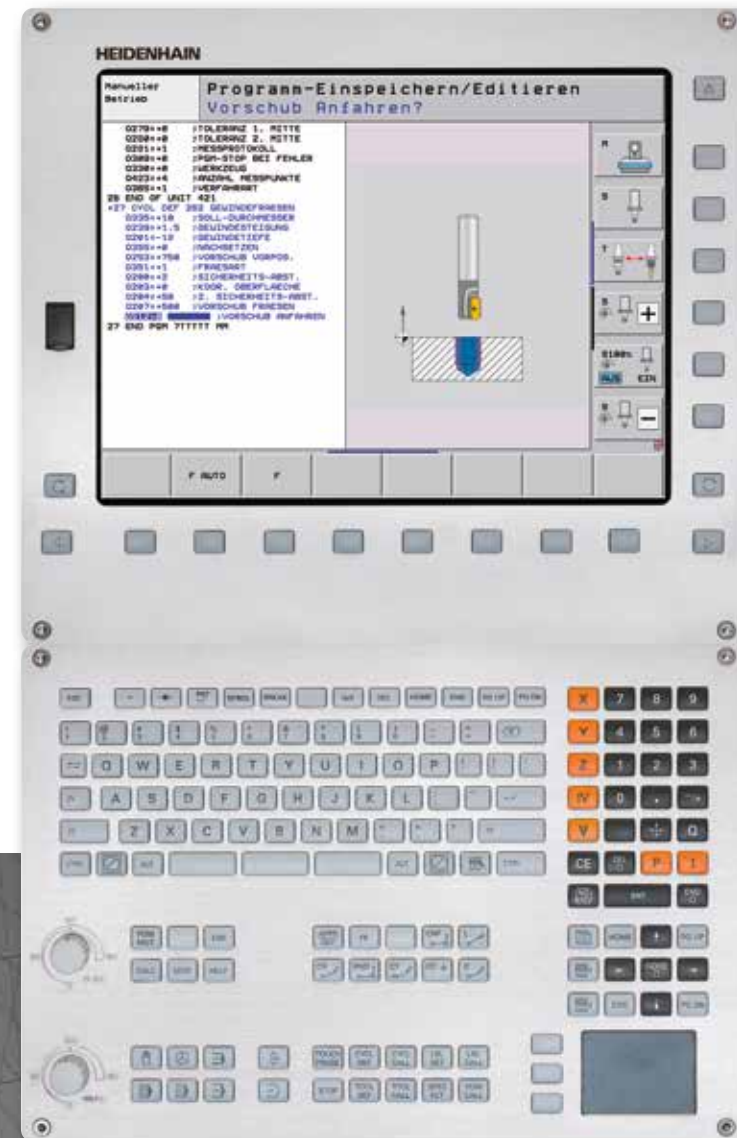
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Standard

- > 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)
- > 4th and 5th axis
- > Heidenhain-DNC
- > Remote Desktop Manager
- > Extended Tool Management
- > Dynamic Precision
- > Dynamic Efficiency



Source HEIDENHAIN

- > Aerospace
- > Aviation
- > Automotive
- > Power
- > 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





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