

MYCENTER[®] HX800G/1000



HORIZONTAL MACHINING CENTER

SIMPLIFY THE COMPLICATED

HX800G/1000 Extreme capacity,

Designed for high-power, high-pr

- World's fastest 60m/min (2,362ipm) rapid feedrates on Solid Box Ways
- Largest work envelope in its class
Ø1,525mm x 1,550mm (60.0" x 61.0" H)
- Patented twin ballscrew and dual feedback technology in X, Y, Z axes with Heidenhain scale feedback
- Standard 62T (field expandable) fixed pot ATC can be expanded in the field up to 212 tools
- Powerful 53HP, 4-step gear driven, 12,000min⁻¹ spindle. 8,000min⁻¹ and HSK spindle configurations are available options
- Standard full 4th axis rotary table with Heidenhain high resolution rotary scale. Easy part set-up and high level accuracies - 10 arc/sec positioning, 3 arc/sec repeatability.



The Mycenter-HX800G/1000 is designed to handle your largest part machining requirements.

It easily handles workpieces up to Ø1,525 (Ø60.0") x 1,550mm (61.0") H. The HX800G/1000 has a table load capacity of 3,000kg (6,600Lbs). Standard full 4th axis for easier set-up of more complex parts.



Patented Twin Ballscrew & dual feedback technology since 1999 provides the stability to support and move large, heavy masses at higher speeds.



Quick Pull Down Menu

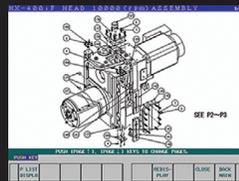
Arumatik® Mi

Pioneering Icon CNC Operation

- 67 Million pulse encoder technology with up to 8,192 block look-ahead processing speeds
- Software upgrades throughout the life of the control
- Completely customizable and expandable user experience
- Video Guidance and visual programming screens
- Anywhere-Remote® E-Mail status updates



Customizable Icon Screen. Advanced touch screen capabilities with user customized main menu touch screen and a variety of visual programming screens and functions that offer the operator faster and easier methods of part set-up and processing.



Maintenance Support Function. Kitamura's Maintenance Support Function offers operator convenience in displaying methods of machining maintenance, repair and parts support on the NC Screen.



Our high efficiency **Intelligent Advanced Control System (IAC)** consists of a series of strategically located sensors and machine efficiency monitors that work to keep component growth due to machining heat build-up to less than ±5 microns (±0.0002").



Video Guidance. Useful functions visually walk the user through methods of battery replacement, alarm release, APC recovery, PMC ladder and alarm release / guidance making it easier to monitor machine performance and uptime.

Positioning Accuracy $\pm 0.002\text{mm}$ ($\pm 0.000079''$) / Full Stroke

Repeatability $\pm 0.001\text{mm}$ ($\pm 0.000039''$)

World renowned JAPANESE

SPECIFICATIONS Mycenter-HX800G/1000

FLOOR PLANS

Table

Table Size	800 x 800mm (31.5" x 31.5")
Table Indexing	0.001 Degree (4th Axis)
Tapped Hole (Size x Qty.)	M16 x 2.0 x 49
Max. Table Load	3,000kg (6,600 lbs.) *With Limitations
Max. Workpiece Dia.	Ø1,525mm (Ø60.0")
Max. Workpiece Height	1,550mm (61.0")

Travels

X-Axis Travel	1,550mm (61.0") / Twin Ballscrew Design
Y-Axis Travel	1,300mm (51.2") / Twin Ballscrew Design
Z-Axis Travel	1,400mm (55.1") / Twin Ballscrew Design
B-Axis Travel	0 to 360 Degrees Full 4th Axis
Table Surf. to Spindle Center	100 ~ 1,400mm (3.9" ~ 55.1")
Table Center to Spindle Nose	150 ~ 1,550mm (5.9" ~ 61.0")

Spindle

Spindle Taper	#50 NST (HSK-A100 Opt.)
Spindle Speed	35 ~ 12,000min ⁻¹ (8,000min ⁻¹ Opt.)
Drive Method	Gear Drive, 4 Step
Maximum Spindle Torque	585.9 N•m (432.1 ft•lbs)
Spindle Motor	40kW (53HP AC/15 min) 22kW (30HP AC/Cont.)

Feed

Rapid Feed X,Y,Z	60m/min (2,362ipm)
Cutting Feed Rate X,Y,Z	60m/min (2,362ipm)
Rapid Feed (B Axis)	9,000 deg/min (25min ⁻¹)

APC

Number of Pallets	2
APC Change Time	23.0 seconds

ATC

Tool Storage Capacity	62 Tools (Opt. 122, 162, 212)
Tool Selection Method	Random bi-directional, Fixed Pot
Tool Holder Style	CT (BT) 50
Max. Tool Dia. / Length	Ø125mm (Ø4.9") / Ø800mm (Ø31.5")
w/Adjacent Tool Pots Empty	Ø320mm (Ø12.5") / Ø650mm (Ø25.6")
Max. Tool Length	650mm (25.6")
Max. Tool Weight	35kg (77 lbs.) *With limitations
Tool to Tool	2.1 seconds
Chip to Chip	5.9 seconds, min.

Utilities

Power Requirement	70KVA, 200v AC, 3 Phase
Air Requirement	0.5 MPa, 410L/min (90psi, 14cfm)

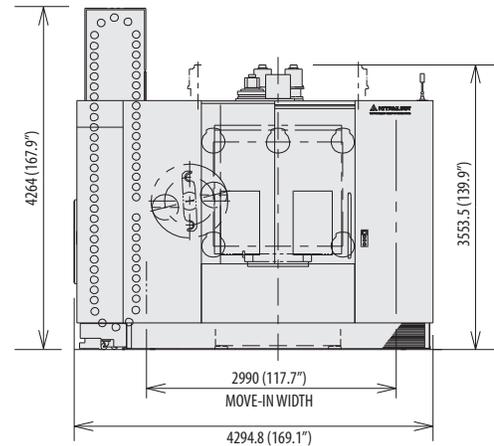
Machine Dimensions

Required Space (W x D)	4,295 x 7,119mm (69.1" x 280.3")
Machine Height	4,264mm (167.9")
Machine Net Weight	28,400kg (62,480 lbs.)

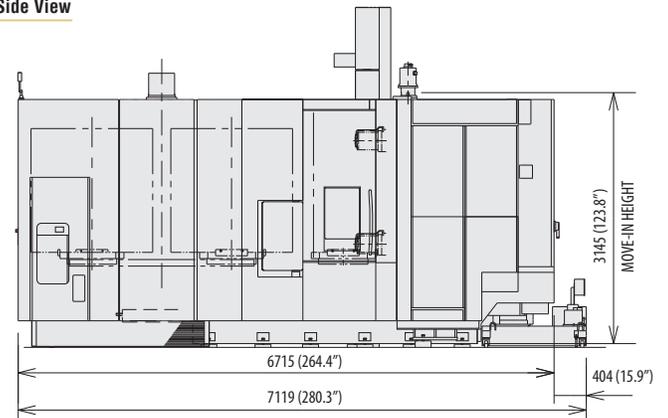
Control

Arumatik-Mi

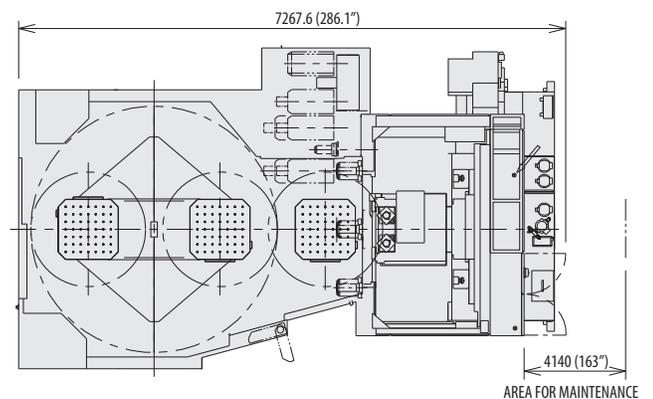
Specifications subject to change without notice.



Side View



Layout View



KITAMURA[®]
Machining Challenges-Simplified[®]

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