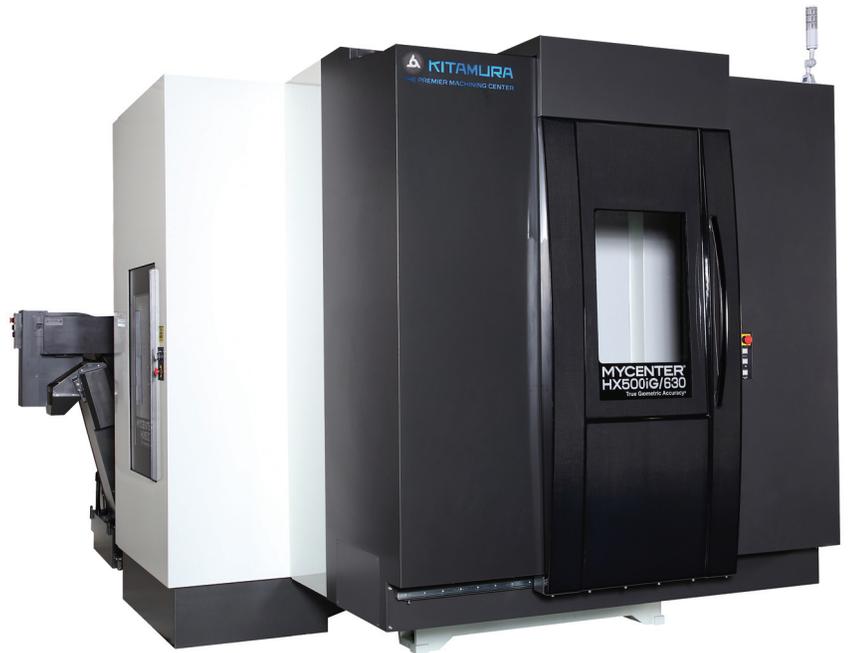
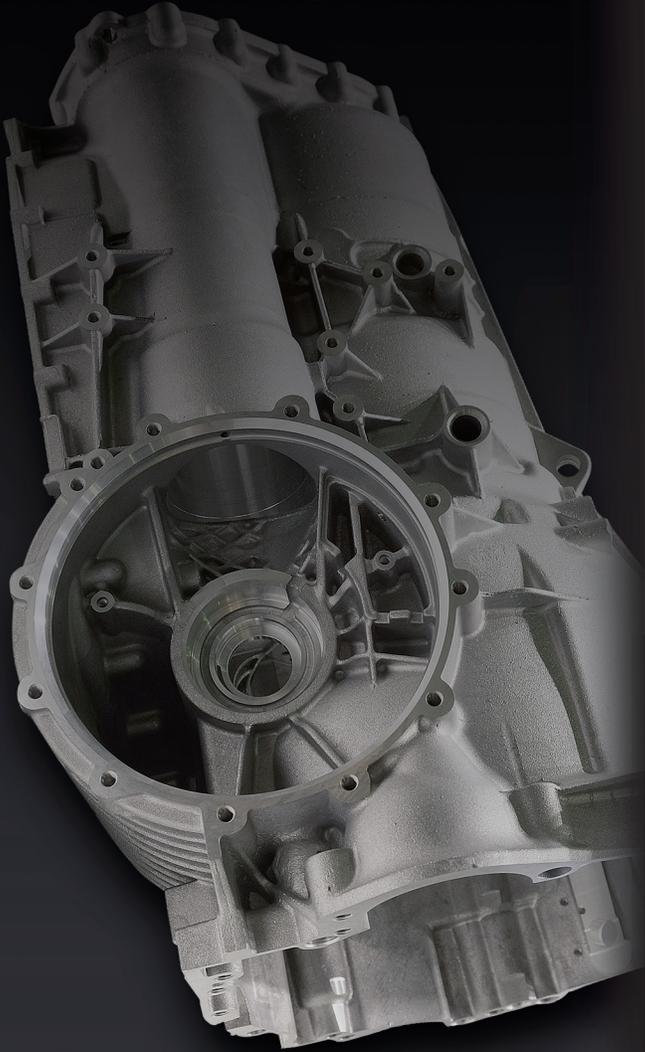


MYCENTER[®]

HX500iG/630



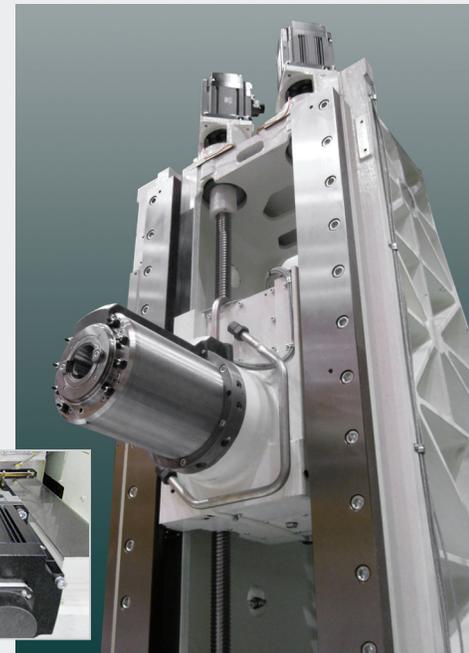
HORIZONTAL MACHINING CENTER

SIMPLIFY THE COMPLICATED

HX500iG/630 The 500mm performance

Optimum rigidity and higher cutting acco

- Field expandable 2-station APC with high speed 4th axis rotary table with rotary scale. Integral drive motor driven with rapids 43,200deg/min (120min⁻¹)
- Ultra-high-speed rapid/cutting feeds, 60m/min (2,362ipm) on solid box ways
- Standard 50T (#40) and 62T (#50) fixed pot ATCs with ultra-high speed tool change, T-T 1.3/2.1 seconds
- Powerful dual contact, 4-step gear driven spindles. 20,000min⁻¹ (#40) or 12,000min⁻¹/8,000min⁻¹ Opt. (#50). HSK spindle options available.
- Ballscrew cooling and fine resolution linear scale feedback in all axes (X,Y,Z)
- Standard 220psi coolant thru the spindle and wash coolant
- Double decker style chip conveyor and filtration system with conveyor reverse switch



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

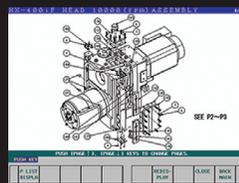
Arumatik® Mi

Pioneering Icon CNC Operation

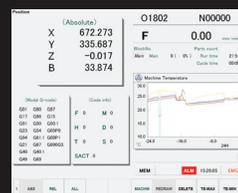
- 67 Million pulse encoder technology with up to 8,192 block look-ahead processing speeds
- Software upgrades throughout the life of the control
- Completely customizable and expandable user experience
- Video Guidance and visual programming screens
- Anywhere-Remote® E-Mail status updates



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 $\pm 0.001\text{mm}$ ($\pm 0.000039"$)

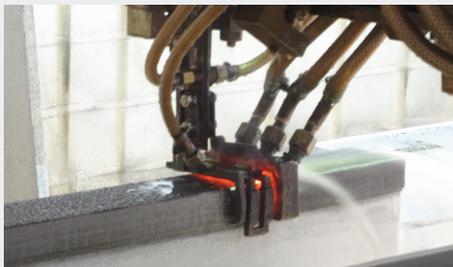
World renowned JAPANESE

package designed to handle today's toughest metal cutting demands

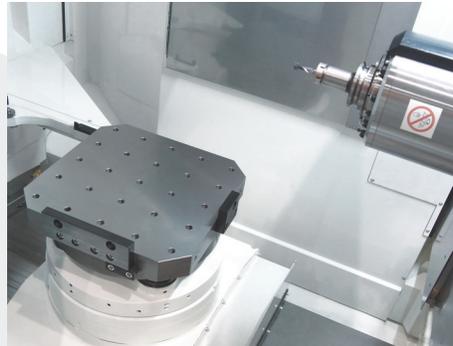
Accuracy for difficult to machine materials

Kitamura castings provide critical design benefits:

- Premium grade Meehanite cast iron
- Solid column construction
- Hand-scraped surfaces for absolute perfect fit with no gaps
- Solid Induction Hardened Boxways produced at our factory in Japan
- Zero overhang for guaranteed static accuracies of +/- 0.002mm (+/-0.000079") / full stroke

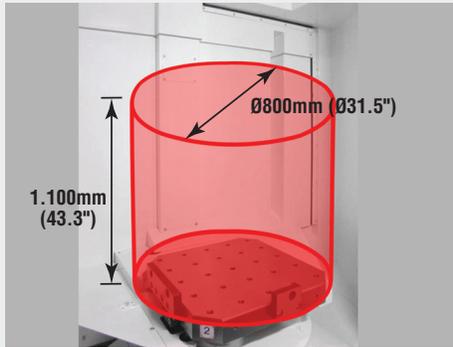


Induction hardened solid box guideways with linear scale feedback on all axes with twin ballscrew design in X & Y axes.



High Speed B-Axis - Integral Drive Motor Driven 43,200deg/min (120min⁻¹) Rotation

- Positioning Accuracy ±2 arc sec
- High resolution built-in Heidenhain rotary encoder
- Zero backlash
- Dramatically faster indexing time reduces out of cut time and increases the amount of material removed in milling applications. Turning is possible with "Fastest in class" rapid feeds.



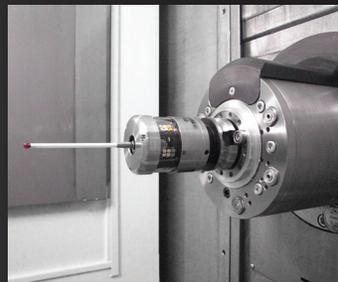
Generous Work Envelope

Ø800mm (Ø31.5") x 1,100mm (43.3") H. Standard 2-APC system and full 4th axis offer smart fixturing and work holding options. An additional 5th axis can be added to BOTH pallets in the field for ultimate flexibility and less handling of your more complex parts.

Available Options



Spindle and Tool Probes



Field Retrofittable 5th Axis Rotary Tables (available on both pallets)



Up to 1000psi Coolant Thru the Spindle Available



Machine	Operator	Program	Status	Time	Material
Kitamura M71-100	John	Program 12345	Running	00:15	100%
Kitamura M71-100	Jane	Program 67890	Idle	00:00	0%
Kitamura M71-100	Mike	Program 11111	Setup	00:05	0%
Kitamura M71-100	Sarah	Program 22222	Running	00:30	50%
Kitamura M71-100	David	Program 33333	Idle	00:00	0%
Kitamura M71-100	Emily	Program 44444	Running	00:45	75%
Kitamura M71-100	Chris	Program 55555	Idle	00:00	0%
Kitamura M71-100	Alex	Program 66666	Running	01:00	100%
Kitamura M71-100	Olivia	Program 77777	Idle	00:00	0%
Kitamura M71-100	Noah	Program 88888	Running	01:15	100%
Kitamura M71-100	Isabella	Program 99999	Idle	00:00	0%
Kitamura M71-100	Liam	Program 00000	Running	01:30	100%

- Machine Monitoring Software Suite
- MTConnect Ready Adaptor



Field Expandable Multi-Pallet Systems

design, engineering and manufacture since 1933

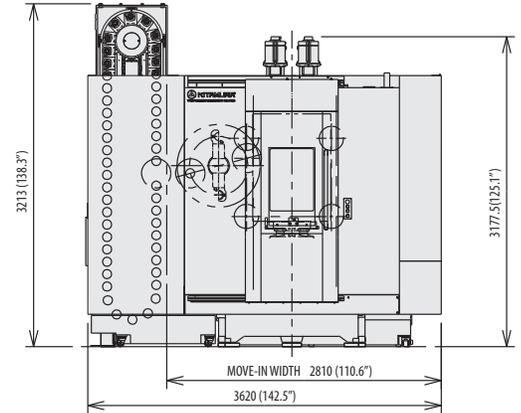
SPECIFICATIONS Mycenter-HX500iG/630

	Mycenter-HX500iG #40	Mycenter-HX500iG #50
Table		
Table Size	500 x 500mm (19.7" x 19.7")	
Table Indexing	0.001 Degree (4th Axis)	
Tapped Hole (Size x Qty.)	M16 x 2.0 x 24	
Max. Table Load	800kg (1,760 lbs.)	
Max. Workpiece Dia.	Ø800mm (Ø31.5")	
Max. Workpiece Height	1,100mm (43.3")	
Travels		
X-Axis Travel	870mm (34.3") / Twin Ballscrew Design	
Y-Axis Travel	800mm (31.5") / Twin Ballscrew Design	
Z-Axis Travel	930mm (36.6")	
B-Axis Travel	0 to 360 Degrees Full 4th Axis	
Table Surf. to Spindle Center	50 ~ 850mm (2.0" ~ 33.5")	
Table Center to Spindle Nose	140~1,070mm (5.5"~42.1")	60~990mm (2.4" ~ 39.0")
Spindle		
Spindle Taper	#40 NST (HSK-A63 Option)	#50 NST (HSK-A100 Opt.)
Spindle Speed	20 ~ 20,000min ⁻¹	35 ~ 12,000min ⁻¹ (8,000min ⁻¹ Opt.)
Drive Method	Gear Drive, 4-Step	
Maximum Spindle Torque	266.4 N•m (196.5 ft•lbs)	585.9 N•m (432.1 ft•lbs)
Spindle Motor	22kW (30HP AC/15 min) 15kW (20HP AC/Cont.)	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)	43,200 deg/min (120min ⁻¹)	
APC		
Number of Pallets	2	
APC Change Time	8.8 seconds	
ATC		
Tool Storage Capacity	50 Tools (Opt. 100, 150, 200, 300)	62 Tools (Opt. 112, 122, 162, 212)
Tool Selection Method	Random bi-directional, Fixed Pot	
Tool Holder Style	CT (BT) 40 (HSK-A63 Opt.)	CT (BT) 50 (HSK-A100 Opt.)
Max. Tool Dia.	Ø95mm (Ø3.7") / Ø170mm (Ø6.7")	Ø125mm (Ø4.9") / Ø300mm (Ø11.8")
Max. Tool Length	600mm (23.6")	
Max. Tool Weight	10kg (22 lbs.)	30kg (66 lbs.)
Tool to Tool	1.3 seconds	2.1 seconds
Chip to Chip	3.8 seconds, min.	4.8 seconds, min.
Utilities		
	55KVA, 200v AC, 3 Phase	75KVA, 200v AC, 3 Phase
Air Requirement	0.5 MPa, 410L / min (90psi, 14cfm)	
Machine Dimensions		
Required Space (W x D)	3,585 x 4,957mm (141.1" x 195.2")	3,620 x 4,957mm (142.5" x 195.2")
Machine Height	3,178mm (125.1")	3,499mm (137.8")
Machine Net Weight	16,100kg (35,420 lbs.)	16,500kg (36,300 lbs.)
Control <i>Arumatik-Mi</i>		

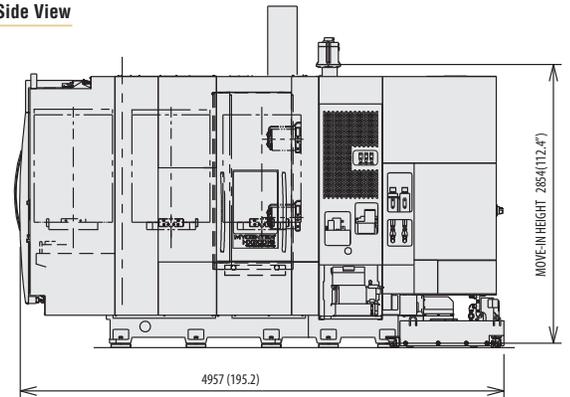
Specifications subject to change without notice.

FLOOR PLANS

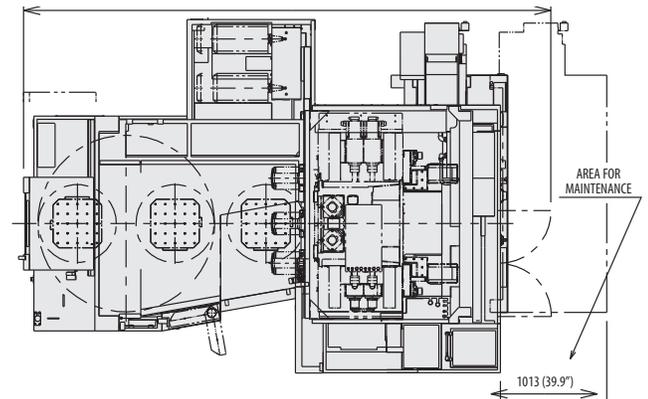
Front View



Side View



Layout View



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