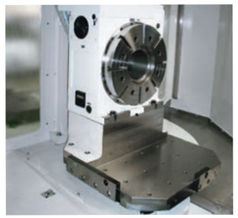
SPECIFICATIONS Mycenter-HX400iG

Table	
Table Size	400 x 400mm (15.7" x 15.7")
Table Indexing	0.001 Degree (4th Axis)
Tapped Hole (Size x Qty.)	M16 x 2.0 x 25
Max. Table Load	350 /400kg (770/880 lbs.)
Max. Workpiece Dia.	Ø630mm (Ø24.8")
Max. Workpiece Height	745mm (29.3")
Travels	
X-Axis Travel	610mm (24.0")
Y-Axis Travel	610mm (24.0")
Z-Axis Travel	610mm (24.0")
B-Axis Travel	0 to 360 Degrees Full 4th Axis
Table Surf. to Spindle Center	40 ~ 650mm (1.6" to 25.6")
Table Center to Spindle Nose	100 ~ 710mm (3.9" to 27.9")
Spindle	
Spindle Taper	#40 NST (HSK-A63 Opt.)
Spindle Speed	40 ~ 15,000min^{-1} (20,000min^{-1} Opt.)
Drive Method	Direct Drive
Maximum Spindle Torque	95.5 N•m (70.4 ft•lbs)
Spindle Motor	22kW (30HP AC/ 5 min)
	15kW (20HP AC/10 min)
	11kW (15HP AC/30 min)
	7.5kW (10HP 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)	45,000 deg/min (125min^{-1})
APC	
Number of Pallets	2
APC Change Time	8.5 seconds
ATC	
Tool Storage Capacity	50 Tools (Opt. 100,150, 200)
Tool Selection Method	Random bi-directional, Fixed Pot
Tool Holder Style	CT (BT) 40 (HSK-A63 Opt.)
Max. Tool Dia.	Ø95mm (Ø3.7") / Ø150mm (Ø5.9")
Max. Tool Length	370mm (14.6")
Max. Tool Weight	10kg (22 lbs.)
Tool to Tool	1.3 seconds
Chip to Chip	2.5 seconds, min.
Utilities	
Power Requirement	50KVA, 200v AC, 3 Phase
	55KVA - Opt. 20,000rpm Spindle
Air Requirement	0.5 MPa, 350L/min (90psi, 12cfm)
Machine Dimensions	
Required Space (W x D)	3,068 x 4,065mm (120.8" x 160.0")
Machine Height	2,739mm (107.8")
Machine Net Weight	9,800kg (21,560 lbs.)
Control	Arumatik®-Mi

Available Options

Non-Contact Tool Probe

Field Expandable Multi-Pallet Systems



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

Up to 1000psi Coolant Thru the Spindle Available

Production Monitoring Software

Double Decker Style Chip Conveyor

KITAMURA® MACHINERY CO., LTD.

Kitamura Machinery Co., Ltd. (Headquarters)
TEL: (0766) 63-1100 FAX: (0766) 63-1128
www.kitamura-machinery.co.jp

Kitamura Machinery of U.S.A., Inc. (Chicago)
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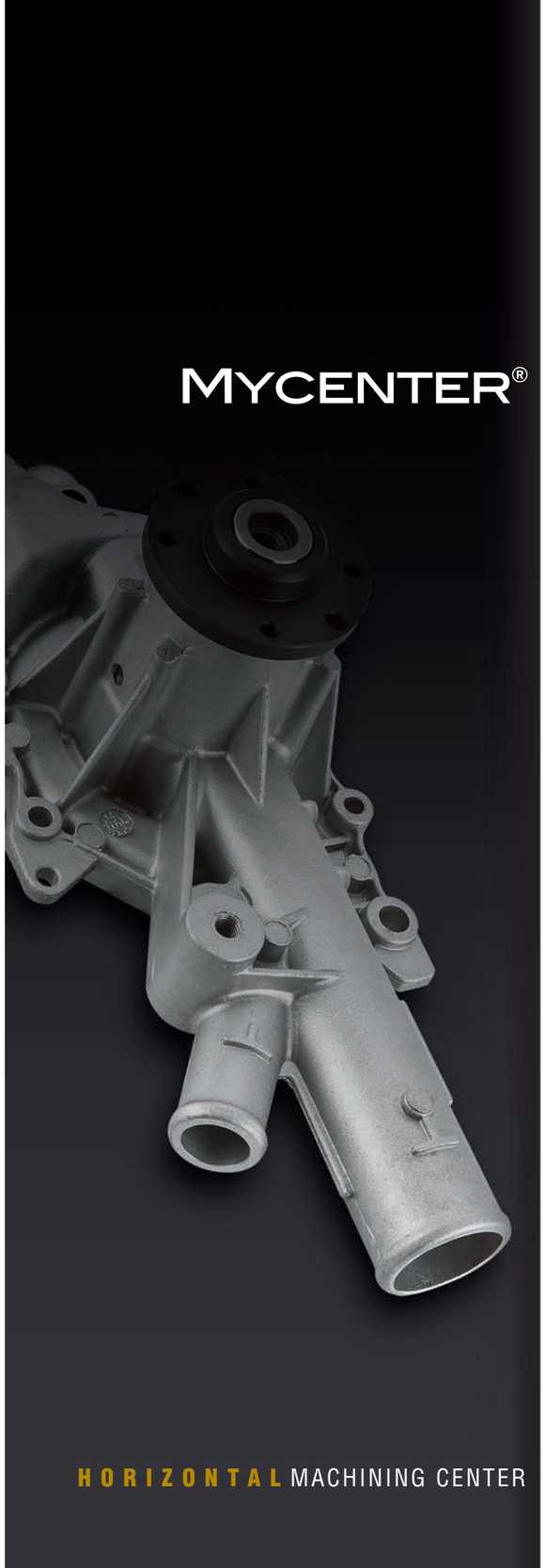


KITAMURA®
Machining Challenges-Simplified®

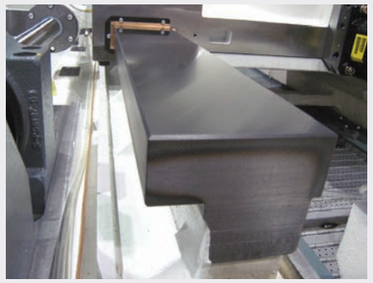
MYCENTER® HX400iG

SIMPLIFY THE COMPLICATED

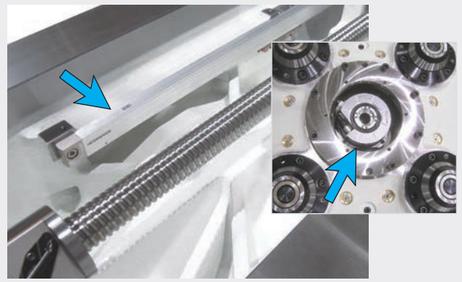
HX400iG World's fastest 400mm mid to large size horizontal machining technology

Superior design and required precision for your most challenging workpieces

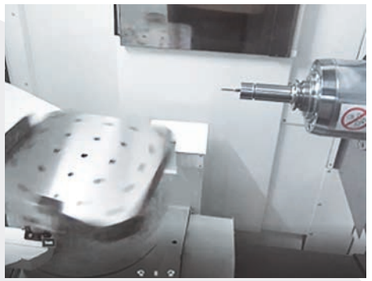
- Rigid 9,800kg (21,560Lbs) Meehanite cast construction manufactured in Japan with craftsmanship in handscraping techniques
- Field expandable 2-station APC with high speed 4th Axis rotary table and rotary scale. DD motor driven with rapids 45,000deg/min (125min^{-1})
- Ultra-high-speed rapid/cutting feeds, 60m/min (2,362ipm) on solid box ways
- Induction Hardened Solid box guideways with linear scale feeback on all axes
- Powerful 15,000min^{-1}, 30HP Direct Drive, Dual Contact Spindle. 20,000min^{-1} HSK spindle is an available option.
- Ballscrew cooling in Z-axis
- Standard hinge belt style conveyor combined with dual internal chip augers = High efficiency chip evacuation



In-house induction hardened solid box ways *provide the mass, stability and damping capacity necessary to offer heavier cutting ability, superb surface finishes and longer tool life.*



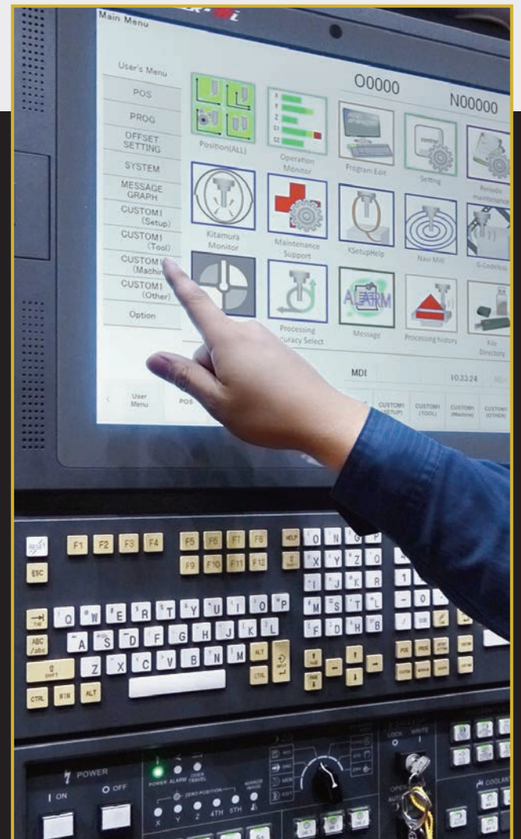
Standard linear (X,Y,Z) and rotary scale (B) feedback *offer long term, highest in-class accuracy while minimizing displacement even at outer edges of table limits.*



High Speed B-Axis - DD Motor Driven 45,000deg/min (125min^{-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.*

Exclusive 50-tool fixed pot ATC.
In-the-field tool capacity expansion up to 200 tools. Ultra-fast 1.3 sec. T-T change time optimizes machine performance.



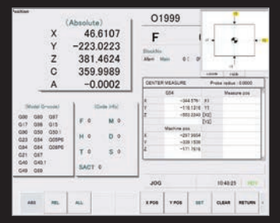
Pioneering Icon CNC Operation with Interactive Touchscreen Display Technology

Arumatik®-Mi

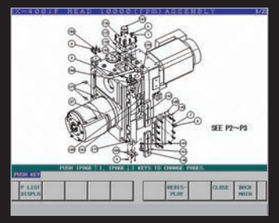
- 67 Million pulse encoder technology with 8,192 block look-ahead processing speeds
- Software upgrades throughout the life of the control
- Fanuc user-friendly
- Completely customizable and expandable user experience
- Video Guidance and visual programming screens

The latest in control technology with a focus on ease of use for the operator

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.



Work Set Assistance. Set-up work offsets with just a few keystrokes. Four types of measurements are possible. Edge side measure, center measure, 3 point diameter center measure and corner measure if angular.



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

Intelligent Advanced Control System. Controls the effects of heat displacement in order to ensure continuous accuracy in machining. Minimizes head displacement to less than +/-5 microns. 6 sensors positioned on the machine measure and monitor temperature of machine and compensation guarantees positioning accuracy of +/-0.002mm (+/-0.000079") / Full stroke. Kitamura patented system since 1998.

**Daily Thermal Graphic Display*

Positioning Accuracy +/-0.002mm (+/-0.000079") / Full Stroke **Repeatability +/-0.001mm (+/-0.000039")**

World renowned JAPANESE design, engineering and manufacture since 1933