SPECIFICATIONS Mycenter-HX400iG/500

| Spindle | | |
|-------------------------------|--------------------------------|--|
| Table Center to Spindle Nose | 100 ~ 710mm (3.9" to 27.9") | |
| Table Surf. to Spindle Center | 40 ~ 650mm (1.6" to 25.6") | |
| B-Axis Travel | 0 to 360 Degrees Full 4th Axis | |
| Z-Axis Travel | 610mm (24.0") | |
| Y-Axis Travel | 610mm (24.0") | |
| X-Axis Travel | 610mm (24.0") | |
| Travels | | |
| Max. Workpiece Height | 745mm (29.3") | |
| Max.Workpiece Dia. | Ø630mm (Ø24.8") | |
| Max. Table Load | 350 /400kg (770/880 lbs.) | |
| Tapped Hole (Size x Qty.) | M16 x 2.0 x 25 | |
| Table Indexing | 0.001 Degree (4th Axis) | |
| Table Size | 400 x 400mm (15.7" x 15.7") | |

Table

| inuto . | |
|------------------------|---|
| 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

| APG | |
|--------------------------------------|-----------------------------------|
| Number of Pallets | 2 |
| APC Change Time | 8.5 seconds |
| ATC | |
| Tool Storage Capacity | 50 Tools (Opt. 62, 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 |
| Air Requirement | 0.5 MPa, 350L/min (90psi, 13cfm) |
| For 20,000 min ⁻¹ Spindle | 0.5 MPa, 410L/min (90psi, 15cfm) |
| 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

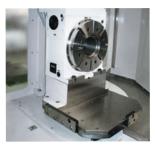




Field Expandable

Multi-Pallet Systems

Non-Contact Tool Probe



Rotary Tables (available on both pallets)

Field Retrofittable 5th Axis Up to 1000psi Coolant Thru the Spindle Available



- Machine Monitoring Software Suite MTConnect Ready
- Adaptor

🦳 KITAMURA° MACHINERY CO., LTD.

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Double Decker Style Chip Conveyor

贝秘族回





HORIZONTAL MACHINING CENTER



MYCENTER[®] HX400G/500

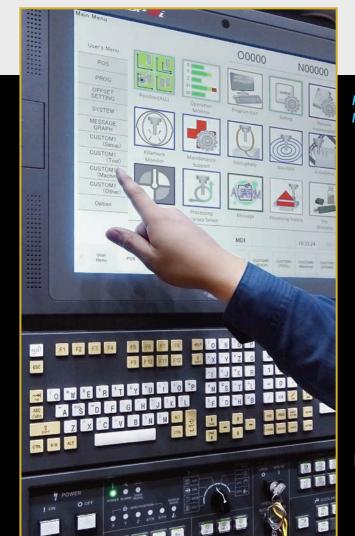




HX400iG/500 World's fastest 400mm mid to large size horizontal machining technology

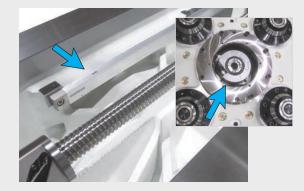
Superior design and required precision for your most challenging workpieces

- 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. Integral drive motor driven with rapids 45,000deg/min (125min⁻¹)
- Ultra-high-speed rapid/cutting feeds, 60m/min (2,362ipm) on solid box wavs
- 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



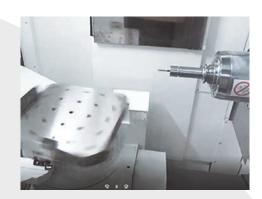


In-house induction hardened solid box ways provide the mass, stability and damping capacity necessary to offer heavier cutting ability, superb surface finishes and longer tool life.



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.

Ø630mm (Ø24.8") 745mm (29.3")



Generous Work Envelope.

Ø630mm (Ø24.8") x 745mm (29.3") 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.



Pioneering Icon CNC Operation with Interactive Touchscreen Display Technology

Arumatik //i

- 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
- Anywhere-Remote E-Mail status updates

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



part set-up and processing

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able Icon Screen, Advanced Work Set Assistance, Set-up work touch screen capabilities with user offsets with just a few keystrokes. customized main menu touch screen Four types of measurements are possible. Edge side measure, center and a variety of visual programming screens and functions that offer the measure, 3 point diameter center operator faster and easier methods of measure and corner measure if angular

Positioning Accuracy +/-0.002mm (+/-0.000079") / Full Stroke

Repeatability +/-0.001mm (+/-0.000039")

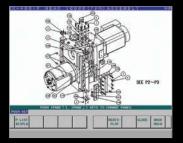
World renowned JAPANESE design, engineering and manufacture since 1933



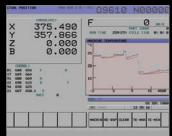
- Positioning Accuracy ±2 arc sec
- High resolution built-in Heidenhain rotary encoder
- Zero backlash
- Dramatically faster indexing time reduces out of cut time and increases the amount of material removed in milling applications. Turning is possible with "Fastest in class"

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.



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 quarantees positioning accuracy o +/-0.002mm (+/-0.000079") / Full stroke. Kitamura patented system since 1998

*Daily Thermal Graphic Display