

MYCENTER[®]

HX250iG



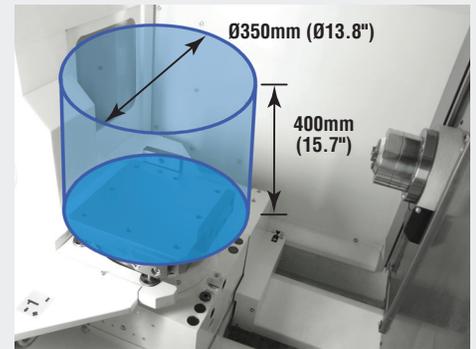
HORIZONTAL MACHINING CENTER

SIMPLIFY THE COMPLICATED

HX250iG The machine for high speed, high

Power & precision in an

- Rigid 4,500kg (9,900Lbs) Meehanite cast construction manufactured in Japan with craftsmanship in handscraping techniques
- Space-saving, ultra compact 2.33 x 2.95m (7.7' x 9.7') footprint
- 2-station APC with high speed 4th Axis rotary table with rotary scale. Integral drive motor driven with rapids of 108,000deg/min (300min⁻¹)
- Ultra-high-speed rapid/cutting feeds, 60m/min (2,362ipm)
- Ultra-high speed tool change, T-T 0.9 Seconds
- High performance THK double roller linear guideway system
- Powerful 15,000min⁻¹, 15HP Direct Drive, Dual Contact Spindle. 30,000min⁻¹ HSK spindle is an available option
- Standard scraper type chip conveyor with rolling filtration system



Quick Pull Down Menu

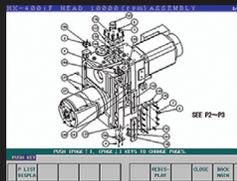
Arumatik[®] Mi

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 ± 0.002 mm (± 0.000079 ") / Full Stroke

Repeatability ± 0.001 mm (± 0.000039 ")

World renowned JAPANESE

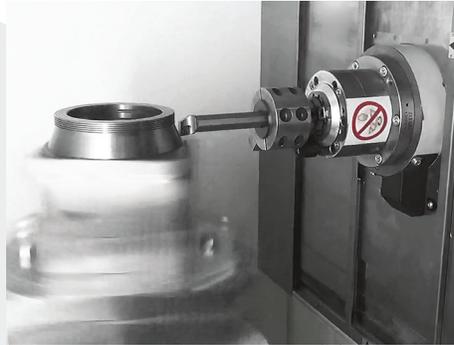
Productivity intricate machining of small components

ultra-compact footprint

All mating surfaces are hand scraped to assure an absolutely perfect fit. No need for geometry compensation to adjust for squareness, parallelism and perpendicularity. High performance THK double roller linear guideways offer long life expectancy while holding accuracies. Smooth and quiet operation.

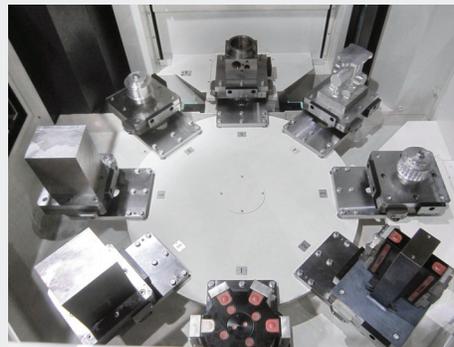
Generous Work Envelope

Ø350mm (Ø13.8") x 400mm (15.7") 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.



High Speed B-Axis - Integral Drive Motor Driven 108,000deg./min (300min⁻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.

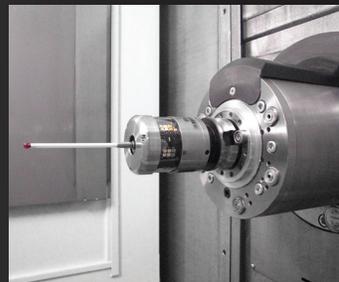


Now Available – Field installable 10-Station APC System. Fits within a compact 4,117mm (163") deep x 2,995mm (118") wide footprint.

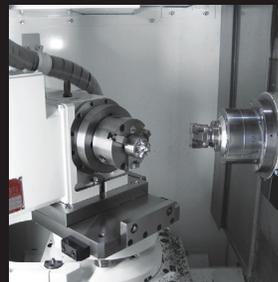
Available Options



Spindle and Tool Probes



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



Up to 1000psi Coolant Thru the Spindle Available

| Machine Model | Capacity | Spindle Power | Spindle Speed | Max. Tool Length | Max. Tool Dia. | Max. Workpiece Dia. | Max. Workpiece Length |
|--------------------|----------|---------------|---------------|------------------|----------------|---------------------|-----------------------|
| Engineered Plastic | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| Engineered Plastic | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| Engineered Plastic | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| Engineered Plastic | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| Engineered Plastic | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
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| Engineered Plastic | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| Engineered Plastic | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |

- Machine Monitoring Software Suite
- MTConnect Ready Adaptor



Smart Fixturing and Workholding Options



Field Expandable 102 Tool ATC Magazine

SPECIFICATIONS Mycenter-HX250iG

Table

| | |
|---------------------------|-----------------------------|
| Table Size | 254 x 254mm (10.0" x 10.0") |
| Table Indexing | 0.001 Degree (4th Axis) |
| Tapped Hole (Size x Qty.) | M12 x 1.75 x 8 |
| Max. Table Load | 100kg (220 lbs.) |
| Max. Workpiece Dia. | Ø350mm (Ø13.8") |
| Max. Workpiece Height | 400mm (15.7") |

Travels

| | |
|-------------------------------|--------------------------------|
| X-Axis Travel | 305mm (12.0") |
| Y-Axis Travel | 305mm (12.0") |
| Z-Axis Travel | 330mm (13.0") |
| B-Axis Travel | 0 to 360 Degrees Full 4th Axis |
| Table Surf. to Spindle Center | 60 to 365mm (2.4" to 14.4") |
| Table Center to Spindle Nose | 60 to 390mm (2.4" to 15.4") |

Spindle

| | |
|------------------------|--|
| Spindle Taper | #30 NST (HSK-E40 Option / 30k) |
| Spindle Speed | 150 ~ 15,000min ⁻¹ (30,000min ⁻¹ Opt.) |
| Drive Method | Direct Drive |
| Maximum Spindle Torque | 70.0 N•m (51.6 ft•lbs) |
| Spindle Motor | 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) | 108,000 deg/min (300 min ⁻¹) |

APC

| | |
|-------------------|---------------------------------|
| Number of Pallets | 2 (Opt. 10-Station Pallet Pool) |
| APC Change Time | 7.9 seconds |

ATC

| | |
|-----------------------|----------------------------------|
| Tool Storage Capacity | 40 Tools (Opt. 52, 102) |
| Tool Selection Method | Random Bi-Directional, Fixed Pot |
| Tool Holder Style | BT 30 (HSK-E40 Opt.) |
| Max. Tool Dia. | Ø50mm (Ø2.0") / Ø75mm (Ø3.0") |
| Max. Tool Length | 200mm (7.9") |
| Max. Tool Weight | 3kg (6.6 lbs.) |
| Tool to Tool | 0.9 seconds |
| Chip to Chip | 2.8 seconds, min. |

Utilities

| | |
|-------------------|---------------------------------|
| Power Requirement | 30KVA, 200v AC, 3 Phase |
| Air Requirement | 0.5 MPa, 150L/min (90psi, 6cfm) |

Machine Dimensions

| | |
|------------------------|----------------------------------|
| Required Space (W x D) | 2,330 x 2,948mm (91.7" x 116.1") |
| Machine Height | 2,470mm (97.2") |
| Machine Net Weight | 5,210kg (11,462 lbs.) |

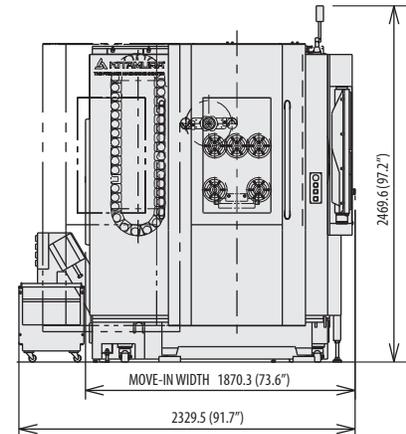
Control

Arumatik-Mi

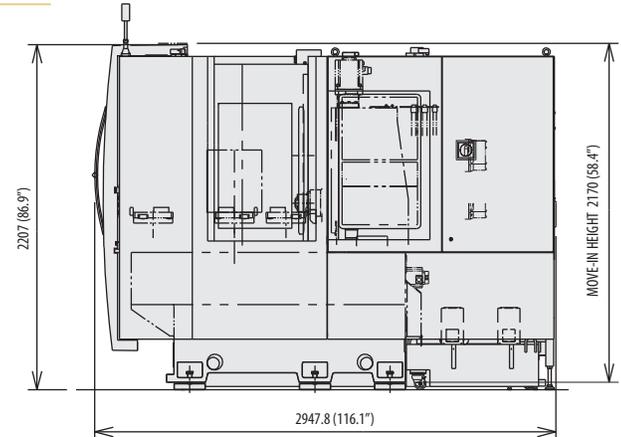
Specifications subject to change without notice.

FLOOR PLANS

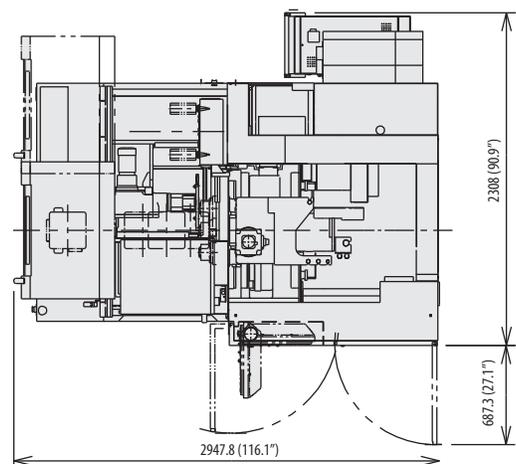
Front View



Side View



Layout View



KITAMURA
Machining Challenges-Simplified®

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