

MYCENTER® 3020G designed to produce parts with optimum efficiency and precision

Simplify the Complex

World-class Japanese design and construction throughout; space-saving design; ease of use and operator convenience . . . the Mycenter®-3020G has it all.

Rock-solid Meehanite cast construction and premium grade components throughout make this machining center an investment that will pay dividends for years to come.

Powerful Arumatik®-Mi control capabilities and highly rigid, high-speed spindles makes for a machine that easily handles a wide variety of cutting materials and conditions, as well as sophisticated mold/die applications.

Features that make the Mycenter®-3020G the preferred choice

- Solid Induction Hardened Box Ways (X,Y-Axes) produced at our factory. Heavy-Duty Cross Roller Linear Ways (Z-Axis).
- Rigidity and speed to easily cut a wide variety of materials. Ideal for die/mold, aerospace, automotive, general machining and more.
- Fastest rapids in its class - (X & Y: 50 m/min, 1,969ipm) (Z: 36m/min, 1,417ipm)
- State-of-the-art Arumatik®-Mi control transforms your machining flexibility, delivering super accurate parts and ultra-smooth finishes. Easily navigate between features with the latest in customizable, intuitive touch screen technology. Improved cycle times with faster program processing.



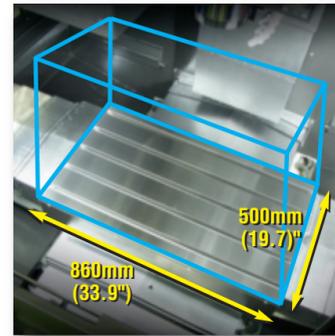
The Perfect Blend of Technology and Hands-On Craftsmanship

Kitamura certified technicians hand-scrape all mounted surfaces requiring assembly. This assures full surface contact and precise alignment that far surpasses the fit and finish of conventional machined mounting surfaces. This labor-intensive process guarantees long-term peak performance and the highest level of accuracy. Kitamura never uses geometry compensation in manufacture to adjust for squareness, parallelism or perpendicularity.

Hand-scraped surfaces assure absolute TGA (True Geometric Accuracy).

Positioning Accuracy: ±0.002mm (±0.000079") / Full Stroke Repeatability: ±0.001mm (±0.000039")

Ideal for Small to Medium Size Part Machining



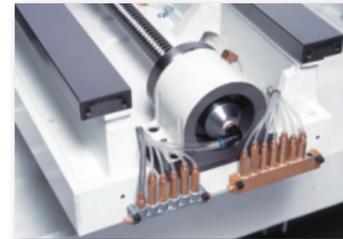
The Mycenter®-3020G is the ideal machine for small to medium size workpieces. Its spacious work envelope and 500mm (19.7") x 860mm (33.9") table provide the flexibility to machine single or multiple fixtured components. There is ample space to easily expand machining capability with the addition of rotary tables to handle more complex 4 and 5-axis work. Add the powerful Arumatik®-Mi Control capabilities and highly rigid high-speed spindle and you truly have a machine that can handle a variety of cutting materials and conditions, as well as more sophisticated die/mold applications.

The Mycenter®-3020G features a high-efficiency chip management system with chip augers on both sides of the bed casting along with standard base wash coolant for a chip free machining environment that boosts productivity and machining accuracy.



Tool Handling Efficient tool handling slashes idle time to maximize machining profit. The Mycenter-3020G ATC uses a memory-random tool selection system for smooth idle-free tool changes. Its generous 30 tool ATC enhances machining capability.

Unrivaled Precision, Performance & Accuracy



Ballscrew temperature is precisely controlled by an internal ballscrew cooling system. This eliminates thermal growth and promotes rigidity assuring peak machining precision even under prolonged heavy cutting conditions.



16mm fine pitch ballscrews in combination with 67 million pulse encoder technology provide a new degree of contouring accuracy - at least 4x smoother surface finishes are achieved as a result of this technology.



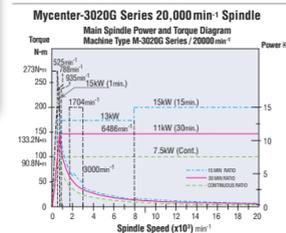
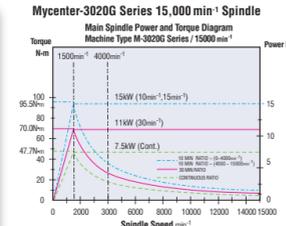
Our high efficiency **Intelligent Advanced Control System (IAC)** consists of a series of strategically located sensors and machine efficiency monitors that work to keep component growth due to machining heat build-up to less than ±5 microns (±0.0002").

Power and Speed that Endures

The **Mycenter®-3020G Series Machining Centers** offer versatility in the choice of spindle configurations available. They are equipped with a standard high speed 15,000min⁻¹, direct drive spindle offering outstanding super-fine finish capability, eliminating the hand-polishing of work pieces making it ideal for high-speed cutting of lighter materials.

Specify the available 20,000min⁻¹ 4-step gear driven spindle to get the robust power necessary for heavy duty cutting of molds and more exotic metals.

Both configurations feature a dual contact design providing simultaneous taper and flange contact for optimum rigidity, reduced vibration and extended cutting tool life.



Productivity Enhancing Features



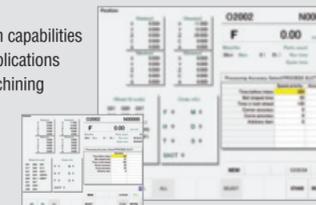
Arumatik®-Mi

Kitamura's original **Arumatik®-Mi Control** is as powerful as it is user friendly. By utilizing unique features such as visual work setting screens, maintenance support functions and video guidance on the 19" LCD, it has been designed to maximize operator potential and performance. The latest in advanced, ultra-intuitive touch screen technology puts a whole new level of control and customization within easy reach.

The Ultra High Speed, High Precision SSS (Super Smooth Surface) Control function improves high speed cutting and optimizes acceleration/deceleration times for each axis. This allows for shorter cutting times with a high degree of accuracy.

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- Up to 8192 block look ahead
- Up to 270m/min feed with 1mm/block, 4,500 blocks/sec
- Exceptional surface finish capabilities
- Ideal for die-mold/3D applications
- Smoother and faster machining



Anywhere-RemOne® Email Status Updates

Automatically receive live machine production data anywhere, any time to desktop, smartphone and mobile devices – all based on customizable, pre-set variables. Anywhere-RemOne TV offers visual flexibility in monitoring the status of up to 6 machines on one computer screen. (Additional machine monitoring suites are available ranging from plug and play to more customized based on application. MTConnet ready adaptor is also an available option for easy communication integration with existing monitoring systems.)



Renishaw Set and Inspect

Integration with Renishaw's Set and Inspect guides users through the process of creating a probing cycle, automatically generating the required machine code for the probing cycle and loads it to the control.



Mycenter®-3020G Sparkchanger with High-Speed 180 degree Rotating Pallet Change System

When maximum production is paramount, the Mycenter®-3020G Sparkchanger delivers. The combination of its high-speed 180 degree rotating pallet changer, lightning-quick tool changer and generous tool capacity meets the most demanding high production requirements.

Operators can safely load work while high-speed machining is in progress for optimum spindle utilization.

In addition, the Mycenter®-3020G Sparkchanger is configured to "cleanly" accommodate the "in-the-field" addition of 4th or 5th-axis rotary tables with no obstructive wiring or cabling. Both pallets can be outfitted with their own rotary tables.



Specifications for Palletized Model

Maximum Table Load	200kg (440 Lbs.)
Distance from Table Top to Spindle Nose	125 to 635mm (4.9" to 25.0")
Required Space (W x D)	3,897 x 3,963mm (153.4" x 156.0")
Machine Height	3,075.4mm (121.1")
Machine Net Weight	8,260 kg (18,172 lbs)

