

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	2kg (4.4 lbs.)
Tool to Tool	0.9 seconds
Chip to Chip	2.8 seconds, min.

Utilities

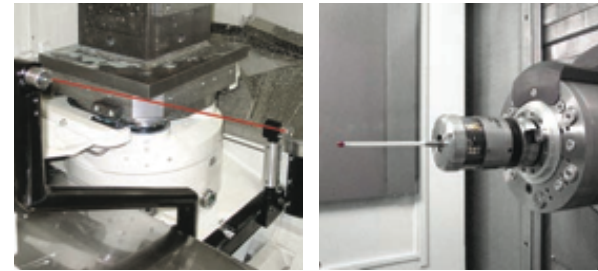
Power Requirement	30KVA, 200v AC, 3 Phase
Air Requirement	0.5 MPa, 150L/min (90psi, 6cfm)

Machine Dimensions

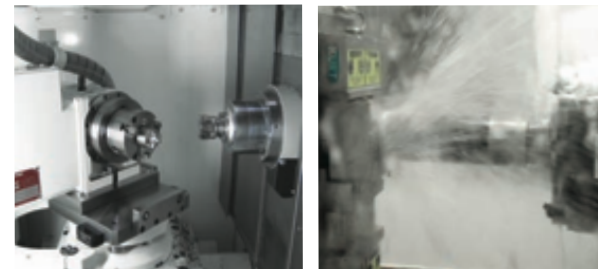
Required Space (W x D)	2,330 x 2,948mm (91.7" x 116.1")
Machine Height	2,470mm (97.2")
Machine Net Weight	4,500kg (9,900 lbs.)

Control	Arumatik®-Mi Control
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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 Monitoring Software Suite
- MTConnect Ready Adaptor



Smart Fixturing and Workholding Options



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MYCENTER®

HX250iG



HORIZONTAL MACHINING CENTER

SIMPLIFY THE COMPLICATED

SPECIFICATIONS Mycenter-HX300iG

Table

Table Size	305 x 305mm (12.0" x 12.0")
Table Indexing	0.001 Degree (4th Axis)
Tapped Hole (Size x Qty.)	M16 x 2.0 x 16
Max. Table Load	250kg (550 lbs.)
Max. Workpiece Dia.	Ø500mm (Ø19.7")
Max. Workpiece Height	745mm (29.3")

Travels

X-Axis Travel	460mm (18.1")
Y-Axis Travel	510mm (20.0")
Z-Axis Travel	560mm (22.0")
B-Axis Travel	0 to 360 Degrees
Table Surf. to Spindle Center	50 to 560mm (2.0" to 22.0")
Table Center to Spindle Nose	60 to 620mm (2.4" to 24.4")

Spindle

Spindle Taper	#40 NST (HSK-A63 Opt.)
Spindle Speed	40 to 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)	54,000 deg/min (150 min ⁻¹)

APC

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 (5.9")
Max. Tool Length	350mm (13.8")
Max. Tool Weight	10kg (22 lbs.)
Tool to Tool	1.3 seconds
Chip to Chip	2.5 seconds, min.

Utilities

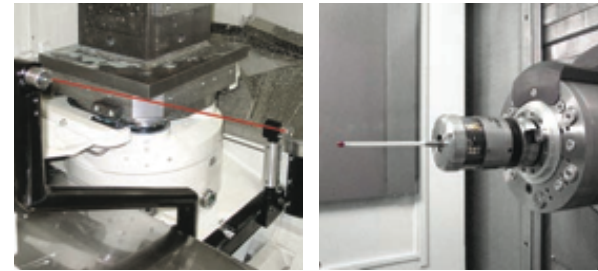
Power Requirement	45 KVA, 200v AC, 3 Phase
	50 KVA, - Opt. 20,000rpm Spindle
Air Requirement	0.5 MPa, 280L/min (90psi, 10cfm)
	For 20,000 min ⁻¹ Spindle
	0.5 MPa, 350L/min (90psi, 13cfm)

Machine Dimensions

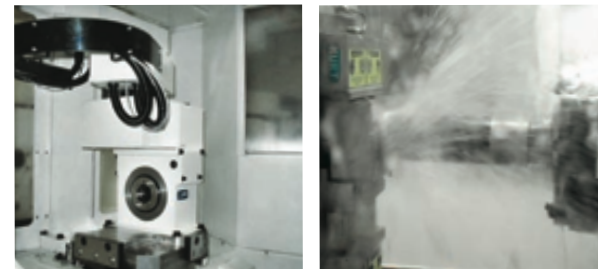
Required Space (W x D)	2,759 x 3,574mm (108.6" x 140.7")
Machine Height	2,700mm (106.3")
Machine Net Weight	9,100kg (20,020 lbs.)

Control	Arumatik [®] -Mi Control
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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 Monitoring Software Suite
- MTConnect Ready Adaptor



Smart Fixturing and Workholding Options



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MYCENTER[®]

HX300iG



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. 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)

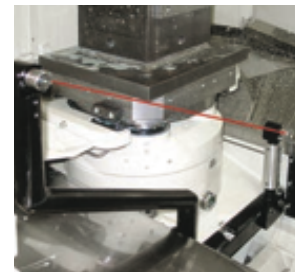
Machine Dimensions

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

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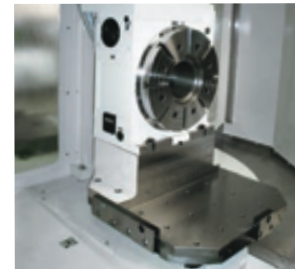
Available Options



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



- Machine Monitoring Software Suite
- MTConnect Ready Adaptor



Double Decker Style Chip Conveyor



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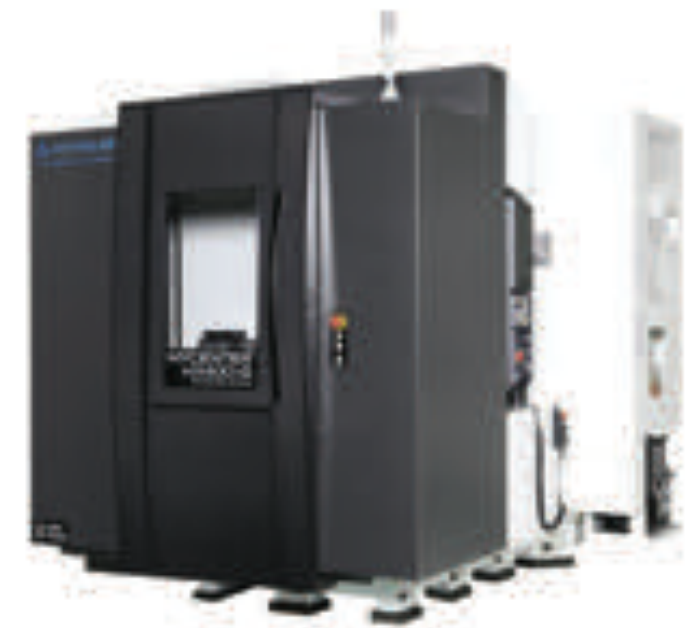
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MYCENTER®

HX400iG



HORIZONTAL MACHINING CENTER

SIMPLIFY THE COMPLICATED

SPECIFICATIONS Mycenter-HX500iG

	Mycenter-HX500iG #40	Mycenter-HX500iG #50
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	

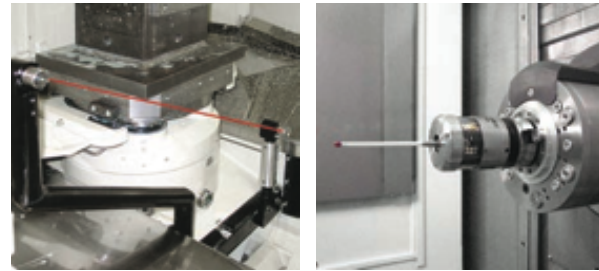
ATC		
Tool Storage Capacity	50 Tools (Opt. 100, 150, 200, 300)	62 Tools (Opt. 112, 122, 162, 212)
Tool Selection Method	Random bi-directional, Fixed Pot	
Tool Holder Style	CT (BT) 40 (HSK-A63 Opt.)	CT (BT) 50 (HSK-A100 Opt.)
Max. Tool Dia.	Ø95mm (Ø3.7") / Ø170mm (Ø6.7")	Ø125mm (Ø4.9") / Ø300mm (Ø11.8")
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)	

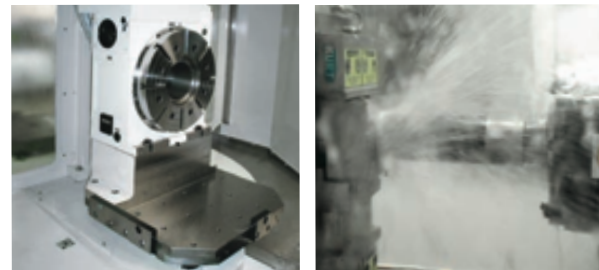
Machine Dimensions		
Required Space (W x D)	3,585 x 4,957mm (141.1" x 195.2")	3,620 x 4,957mm (142.5" x 195.2")
Machine Height	3,178mm (125.1")	3,499mm (137.8")
Machine Net Weight	16,100kg (35,420 lbs.)	16,500kg (36,300 lbs.)

Control		
	Arumatik®-Mi	

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 Monitoring Software Suite
- MTConnect Ready Adaptor



Field Expandable Multi-Pallet Systems



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MYCENTER®

HX500iG



HORIZONTAL MACHINING CENTER

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SPECIFICATIONS Mycenter-HX630G

Table

Table Size	630 x 630mm (24.8" x 24.8")
Table Indexing	0.001 Degree (4th Axis)
Tapped Hole (Size x Qty.)	M16 x 2.0 x 25
Max. Table Load	1,500kg / (3,300 lbs.)
Max. Workpiece Dian.	Ø1,080mm (Ø42.5")
Max. Workpiece Height	1,300mm (51.2")

Travels

X-Axis Travel	1,100mm (43.3") / Twin Ballscrew Design
Y-Axis Travel	920mm (36.2") / Twin Ballscrew Design
Z-Axis Travel	1,050mm (41.3") / Twin Ballscrew Design
B-Axis Travel	0 to 360 Degrees Full 4th Axis
Table Surf. to Spindle Center	100 ~ 1,020mm (3.9" ~ 40.2")
Table Center to Spindle Nose	100 ~ 1,150mm (3.9" ~ 45.3")

Spindle

Spindle Taper	#50 NST (HSK-A100 Opt.)
Spindle Speed	35 ~ 12,000min ⁻¹ (8,000min ⁻¹ Opt.)
Drive Method	Gear Drive, 4 Step
Maximum Spindle Torque	585.9 N•m (432.1 ft•lbs)
Spindle Motor	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)	12,000 deg/min (33.3min ⁻¹)

APC

Number of Pallets	2
APC Change Time	14.7 seconds

ATC

Tool Storage Capacity	62 Tools (Opt. 112, 122, 162, 212)
Tool Selection Method	Random bi-directional, Fixed Pot
Tool Holder Style	CT (BT) 50
Max. Tool Dia.	Ø125mm (Ø4.9") / Ø320mm (Ø12.6")
Max. Tool Length	650mm (25.6")
Max. Tool Weight	30kg (66 lbs.)
Tool to Tool	2.1 seconds
Chip to Chip	5.2 seconds, min.

Utilities

Power Requirement	65KVA, 200v AC, 3 Phase
Air Requirement	0.5 MPa, 410L/min (90psi, 14cfm)

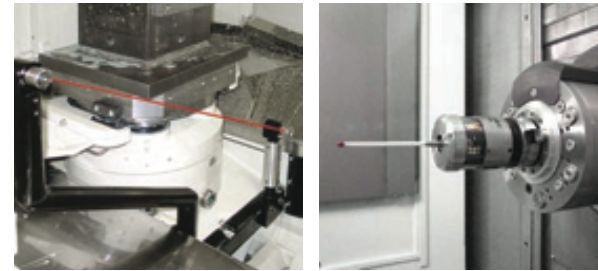
Machine Dimensions

Required Space (W x D)	4,134 x 5,760mm (162.7" x 226.8")
Machine Height	3,513mm (138.3")
Machine Net Weight	21,000kg (46,200 lbs.)

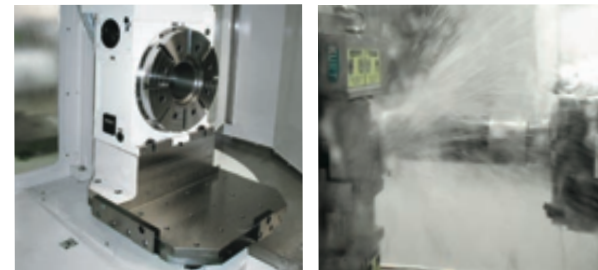
Control

Control	Arumatik®-Mi
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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 Monitoring Software Suite
- MTConnect Ready Adaptor



Field Expandable Multi-Pallet Systems

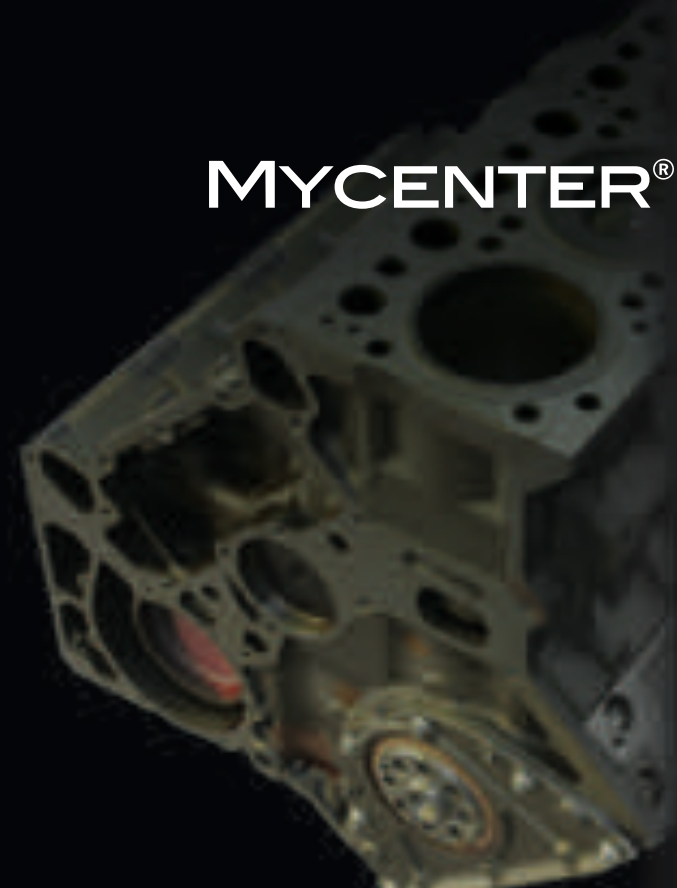


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MYCENTER® HX630G



HORIZONTAL MACHINING CENTER

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SPECIFICATIONS Mycenter-HX800G

Table

Table Size	800 x 800mm (31.5" x 31.5")
Table Indexing	0.001 Degree (4th Axis)
Tapped Hole (Size x Qty.)	M16 x 2.0 x 49
Max. Table Load	3,000kg (6,600 lbs.) *With Limitations
Max. Workpiece Dia.	Ø1,525mm (Ø60.0")
Max. Workpiece Height	1,550mm (61.0")

Travels

X-Axis Travel	1,550mm (61.0") / Twin Ballscrew Design
Y-Axis Travel	1,300mm (51.2") / Twin Ballscrew Design
Z-Axis Travel	1,400mm (55.1") / Twin Ballscrew Design
B-Axis Travel	0 to 360 Degrees Full 4th Axis
Table Surf. to Spindle Center	100 ~ 1,400mm (3.9" ~ 55.1")
Table Center to Spindle Nose	150 ~ 1,550mm (5.9" ~ 61.0")

Spindle

Spindle Taper	#50 NST (HSK-A100 Opt.)
Spindle Speed	35 ~ 12,000min ⁻¹ (8,000min ⁻¹ Opt.)
Drive Method	Gear Drive, 4 Step
Maximum Spindle Torque	585.9 N·m (432.1 ft·lbs)
Spindle Motor	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)	8,000 deg/min (22.2min ⁻¹)

APC

Number of Pallets	2
APC Change Time	23.0 seconds

ATC

Tool Storage Capacity	62 Tools (Opt. 112, 122, 162, 212)
Tool Selection Method	Random bi-directional, Fixed Pot
Tool Holder Style	CT (BT) 50
Max. Tool Dia.	Ø125mm (Ø4.9") / Ø320mm (Ø12.6")
Max. Tool Length	650mm (25.6")
Max. Tool Weight	30kg (66 lbs.)
Tool to Tool	2.1 seconds
Chip to Chip	5.9 seconds, min.

Utilities

Power Requirement	70KVA, 200v AC, 3 Phase
Air Requirement	0.5 MPa, 410L/min (90psi, 14cfm)

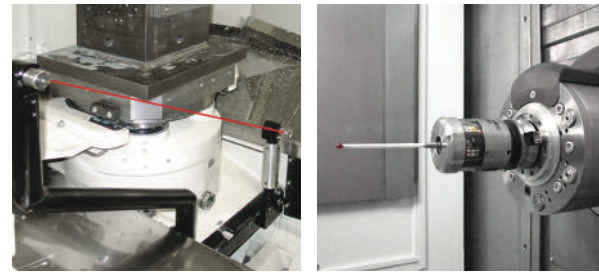
Machine Dimensions

Required Space (W x D)	4,295 x 7,119mm (69.1" x 280.3")
Machine Height	3,554mm (139.9")
Machine Net Weight	28,400kg (62,480 lbs.)

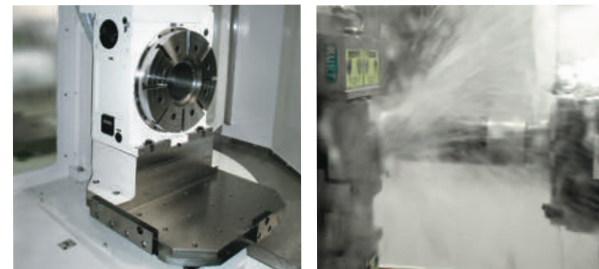
Control

Arumatik®-Mi

Available Options



Spindle and Tool Probes

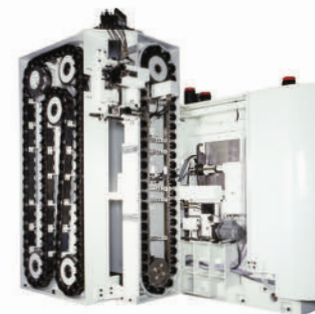


Field Retrofittable 5th Axis Rotary Tables (available on both pallets)

Up to 1000psi Coolant Thru the Spindle Available



- Machine Monitoring Software Suite
- MTConnect Ready Adaptor



Field Expandable Tool Changer Systems, up to 212 Tools



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MYCENTER® HX800G



HORIZONTAL MACHINING CENTER

SIMPLIFY THE COMPLICATED

SPECIFICATIONS MYCENTER[®] 3020G

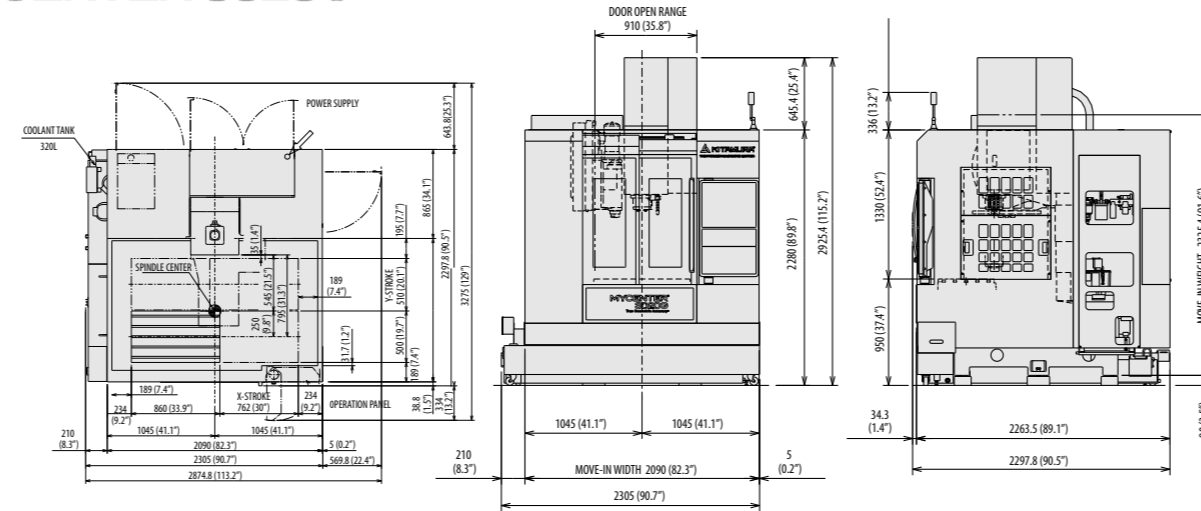
Table	
Table Size	500 x 860mm (19.7" x 33.9")
T-Slot (Width x Quantity)	18mm (0.7") x 5
Maximum Table Load	500kg (1,100 Lbs.)
Travel	
X-Axis Travel	762mm (30.0")
Y-Axis Travel	510mm (20.1")
Z-Axis Travel	510mm (20.1")
Distance from Table Top to Spindle Nose	100 to 610mm (3.9" to 24.0")
Distance from Table Center to Column Slideway	285 to 795mm (11.2" to 31.3")
Spindle	
Spindle Taper	#40 NST
Spindle Speed	40 to 15,000min ⁻¹ 20 to 20,000min ⁻¹
Drive Method	Direct Drive 4-Step Gear Drive
Spindle Motor	22kw (30 HP) AC/5 Min. 15kw (20 HP) AC/10 Min. 15kw (20 HP) AC/15 Min. 11kw (15 HP) AC/30 Min. 7.5kw (10 HP) AC/Cont.
Spindle Torque	95.5 N•m (70.4 ft.lbs) / 15 Min. 133.2 N•m (98.2 ft.lbs) / 30 Min.
Feed	
Rapid Feed X & Y Axes	50 m/min (1,969ipm)
Rapid Feed Z	36 m/min (1,417ipm)
Cutting Feed Rate X, Y	36 m/min (1,417ipm)
ATC	
Tool Storage Capacity	30 Tools
Tool Selection Method	Memory Random
Tool Holder Style	CT 40
Max. Tool Diameter	Ø75mm (Ø3.0") / Ø150mm (Ø5.9") Adjacent Pots Empty
Max. Tool Length	300mm (11.8")
Max. Tool Weight	8kg (17.6 Lbs.)
Tool to Tool	2.2 Seconds
Chip to Chip	4.4 Seconds, Minimum
Utilities	
Power Requirement	30 KVA 200v AC, 3 Phase
Air Requirement	0.5MPa, 300L/min (90 psi, 11 cfm)
Machine Dimensions	
Required Space (W x D)	2,875 x 3,275mm (113.2" x 129.0")
Machine Height	2,925.4mm (115.2")
Machine Net Weight	6,250 kg (13,750 lbs)
Control	
	Arumatik[®]Mi

All specifications subject to change without notice.

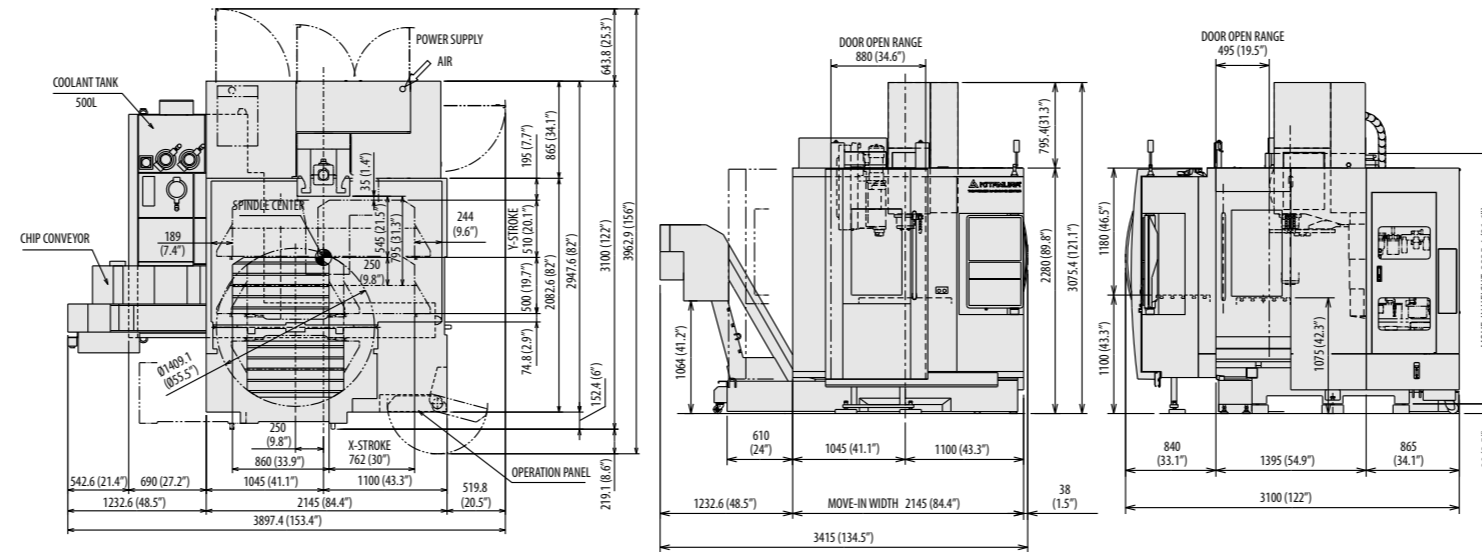
Arumatik[®]Mi CONTROL SPECS

3-Axes Controllable
19" Color LCD
Fine Accel/Decel after Interpolation
Linear Interpolation (G01)
Circular/Helical/Spline Interpolation (G02, G03)
Conical Interpolation (G02.1, G03.1)
3-D Circular Interpolation (G02.4, G03.4)
Circular Cutting (G12, G13)
Dwell (G04)
Scaling (G50, G51)
Extended Workpiece Coordinate System (96 Sets)
Single Direction Positioning (G60)
Coordinate System Rotation (G68, G69)
Rigid Tapping
Deep-Hole Tapping Cycle
Pecking Tapping Cycle
Small-Diameter Deep-Hold Drilling Cycle
3-D Tool Compensation (G40, G41, G42)
High Speed, High Accuracy Control
NURBS Interpolation
High-Precision SSS Control (up to 8,192 Block Look-Ahead)
67-Million Pulse Encoder Feedback System
Background Editing
Corner Chamfering / Corner Rounding
Custom Macro B
Custom Macro Common Variables, 700Pcs
8GB Data Server
DNC 1 Interface
Ethernet Interface
Extended Editing (Copy, Move, Change, Merge)
Registerable Programs, 1,000 Sets
1280M Memory
Geometric Command
Inverse Time Feed
Operation Screen Display
Optional Block Skip
Playback Function
Program Restart
RS232C Interface
Tangential Speed Constant Control
Tool Life Management, 400 Sets
Tool Offset Memory C
Tool Offset Pairs, 200 Pairs
Tool Retract and Return
USB Memory Interface
Backlash Compensation

FLOOR PLANS MYCENTER[®] 3020G



MYCENTER[®] 3020G Sparkchanger



KITAMURA[®] Machining Challenges-Simplified[®]

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MYCENTER[®] 3020G

HIGH PRECISION VERTICAL MACHINING CENTER



Mycenter-2XD
Spark changer[®]
Vertical Machining Center



High Volume Production at your Fingertips. . .

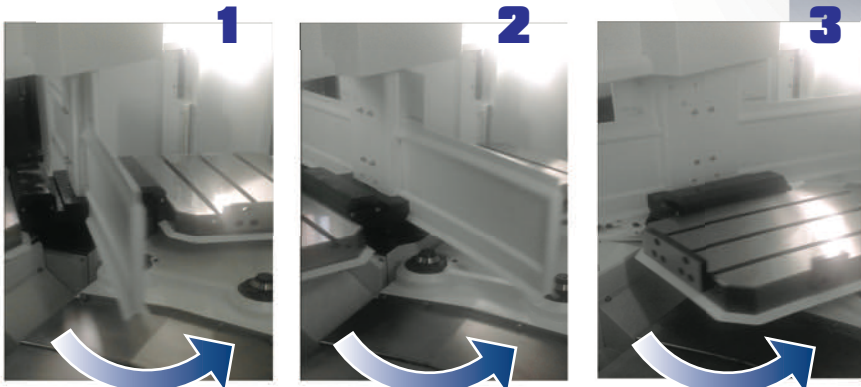
The Mycenter-2XD "Sparkchanger" VMC increases spindle up-time with a high-speed 2-station automatic pallet changer. Designed to allow for load and unload of workpieces when the machine is in cycle, Kitamura "Sparkchangers" offer factory designed & built APC units. Full integration of the pallet changer results in the ultra-compact, space-saving footprint.

The **40-Tool** magazine carries plenty of tools for the completion of complex, multi-fixtured work pieces in one set-up. A powerful, highly precise **35HP, 12,000rpm** dual contact spindle runs low to high rpm for a variety of operations and materials.

Standout Features Include:

- Potent and Powerful 35HP 12,000rpm #40 Dual Contact Spindle
- Standard 180° 2-Station Factory Installed Pallet Changer ("Sparkchanger")
- Standard High-Capacity 40 Tool ATC
- Stiff Cast C-Frame Construction with Heavy Duty Cross Roller Linear Guide Way Design for Dynamic, Accurate Movement
- Internal Chip Augers and Standard Hinge Belt Style Chip Conveyor
- Feature-Rich and Powerful **Arumatik-Jr** Controller

***Standard Factory Installed
2-Station 180° Rotating
Automatic Pallet Changer. . .
Easy as. . .***



Solid, Stiff Cast Construction

Arumatik®-Jr CNC Controller

The **Mycenter-2XD Sparkchanger** is equipped with the latest, ultra-high speed, feature-packed Kitamura **Arumatik®-Jr** CNC Control, designed specifically for high quality machining with smoother finishes and faster performance.

Super Smooth Surface (SSS) control ensures high machining stability and quality resulting in optimum accuracy at higher feed rates, shortening machining time up to 30%. A variety of components such as complicated **medical** parts, **automotive** aluminum castings and tougher **aerospace** components can be machined consistently and in the shortest time possible.

Mycenter®-2XD Spark changer SPECIFICATIONS

Table

Table Size	400 x 560mm (15.7" x 22.0")
T-Slot (Width x Qty.)	14mm (0.55") x 3
Max. Table Load	200kg (440 lbs.)

Travels

X-Axis Travel	600mm (23.6")
Y-Axis Travel	510mm (20.1")
Z-Axis Travel	510mm (20.1")
Distance from Table Top to Spindle Nose	90 to 600mm (3.5" to 23.6")

Spindle

Spindle Taper	#40 NST
Spindle Speed	12,000min ⁻¹ NRG Belt Drive
Spindle Motor	26kW (35HP AC/Peak)

Feed

Rapid Feed X, Y	48m/min (1,890ipm)
Rapid Feed Z	42m/min (1,654ipm)
Cutting Feed Rate X,Y, Z	20m/min (787ipm)

ATC

Tool Storage Capacity	40 Tools - BT/CT 40
Tool Selection Method	Memory Random
Max. Tool Size (Dia. x L) (With Adjacent Pots Empty)	Ø 75mm x 250mm (Ø3.0" x 9.7") Ø 127mm x 250mm (Ø5.0" x 9.7")
Max. Tool Weight	7kg (15.4 lbs.)
Tool Change Time (T-T/C-C)	2.5 sec / 5.2 sec min.

APC

Number of Pallets	2
Pallet Change Time	11.0 sec

Machine Dimensions

Required Space (W x D)	2,480 x 2,900mm (97.6" x 114.2")
------------------------	----------------------------------



Control Standard Features

- 675 Block Look-Ahead High-Speed, High-Accuracy Control
- Workpiece Coordinate System – 54 Sets
- Coordinate System Rotation
- Custom Macro Variables, 700 Pieces
- Inverse Time Feed
- Tool Offset Pairs 400 Pairs, 6 Digits
- 3-Dimensional Tool Radius Compensation
- High Speed Skip
- Thread Cutting
- Rigid Tapping
- Small Diameter Deep-Hole Drilling
- Deep-Hole Tapping Cycle
- Scaling
- Helical Interpolation
- Polar Coordinate Command
- Corner Chamfering / Corner Rounding



Machining Challenges-Simplified®

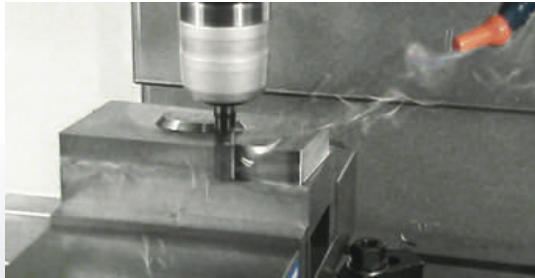
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SUPER COMPACT 8'x7' Footprint

Powerful 35HP ■ 40 Taper ■ 30" x 20" VMC



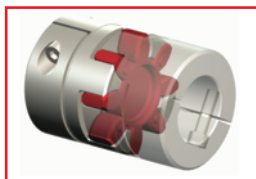
Standard 12,000rpm spindle delivers unparalleled cutting performance on a wide range of materials.

- Stiff, Cast C-Frame Construction
- Heavy Duty Cross Roller Linear Guide Ways
- Highly Rigid, 12,000rpm High Performance Spindle
- Convenient and Efficient Chip Discharge
- Feature Rich, High Speed Processing
Arumatik-Jr Control



Kitamura Quality at an Extremely Affordable Price Point!

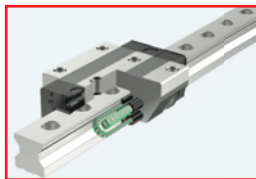
PRECISE ■ RELIABLE ■ DURABLE



KTR Rotex Coupling



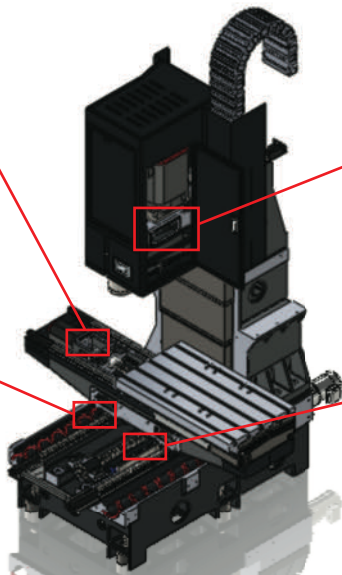
NRG Pulley



THK Cross Roller Linear Guide Ways



Super "S" Nut



Quality Components Throughout - THK heavy duty cross linear guides, fine pitch ballscrews, high grade servo motors, feedback encoder and Kitamura's high precision assembly technology allows for the highest accuracy and smoothest possible motion on X, Y & Z axes. ±1µm repeatability is achievable.



Flexible Configuration - Conveyor can be installed on Left or Right hand side of machine.

Arumatik®-Jr CNC Controller

The **Mycenter-3XD** is equipped with the latest, ultra-high speed, feature-packed Kitamura **Arumatik®-Jr** CNC Control, designed specifically for high quality machining with smoother finishes and faster performance.

Super Smooth Surface (SSS) control ensures high machining stability and quality resulting in optimum accuracy at higher feed rates, shortening machining time up to 30%. A variety of components such as complicated **medical** parts, **automotive** aluminum castings and tougher **aerospace** components can be machined consistently and in the shortest time possible.

Mycenter-3XD SPECIFICATIONS

Table

Table Size	500 x 860mm (19.7" x 33.9")
T-Slot (Width x Qty.)	18mm (0.71") x 5
Max. Table Load	800kg (1,760 lbs.)

Travels

X-Axis Travel	760mm (29.9")
Y-Axis Travel	510mm (20.1")
Z-Axis Travel	510mm (20.1")
Distance from Table Top to Spindle Nose	100 to 610mm (3.9" to 24.0")

Spindle

Spindle Taper	#40 NST
Spindle Speed	12,000min ⁻¹ NRG Belt Drive
Spindle Motor	26kW (35HP AC/Peak)

Feed

Rapid Feed X,Y	48m/min (1,890ipm)
Rapid Feed Z	42m/min (1,654ipm)
Cutting Feed Rate X,Y	20m/min (787ipm)

ATC

Tool Storage Capacity	24 Tools - BT/CT 40
Tool Selection Method	Memory Random
Max. Tool Size (Dia. x L) (With Adjacent Pots Empty)	Ø75mm x 240mm (Ø3.0" x 9.4") Ø150mm x 240mm (Ø5.9" x 9.4")
Max. Tool Weight	7kg (15.4 lbs.)
Tool Change Time (T - T)	2.3 seconds

Machine Dimensions

Required Space (W x D)	2,451 x 2,243mm (96.5" x 88.3") - <i>Super Compact!</i>
------------------------	---



Control Standard Features

- 675 Block Look-Ahead High-Speed, High-Accuracy Control
- Workpiece Coordinate System – 54 Sets
- Coordinate System Rotation
- Custom Macro Variables, 700 Pieces
- Inverse Time Feed
- Tool Offset Pairs 400 Pairs, 6 Digits
- 3-Dimensional Tool Radius Compensation
- High Speed Skip
- Thread Cutting
- Rigid Tapping
- Small Diameter Deep-Hole Drilling
- Deep-Hole Tapping Cycle
- Scaling
- Helical Interpolation
- Polar Coordinate Command
- Corner Chamfering / Corner Rounding

 **KITAMURA®**
Machining Challenges-Simplified®

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Put Punch in Your PRODUCTION

KITAMURA®
Machining Challenges-Simplified®

Mycenter®-4XiD

Vertical Machining Center

Check out these value-driven performance features:

- Powerful, High-Precision 35hp Spindle
- Class-Leading High-Capacity 40 Tool ATC
- Large 1,020 x 510 x 510mm (40" x 20" x 20") X,Y, Z Travels for Maximum Machining Flexibility
- High-Grade Solid Cast Construction
- 3-Block, Double Roller LM Guide System
- Compact Space-Saving Design - only a 3,058 x 2,293mm (120.4" x 90.3") Footprint. Truly the size of a 30" machine!
- Extraordinary Chip Removal

Install a Mycenter-4XiD and that small amount of floorspace will become the most productive in your shop! This VMC is simply amazing. Power, speed, capacity and a host of performance features including Kitamura's exclusive Arumatik® Jr. CNC . . . the Mycenter-4XiD's got it all!

Synchronized two piece door actuated by scissor mechanism.
Standard Door Interlock for safety

40T ATC Standard! Rear loading station for easy maintenance



Arumatik®-Jr. Advanced CNC Controller offers a swivel panel for operator convenience

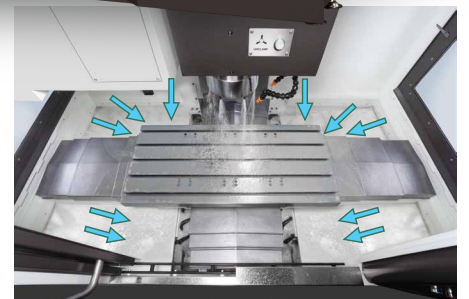
Standard Lift Up Conveyor can be positioned on either left or right-hand side of the machine



3-Block, Double Roller LM Guide System
Ultra-super-high rigidity.
Long term smooth motion operation.



From roughing to fine finishing, the Mycenter-4XiD easily cuts a wide variety of materials. It brings a whole new dimension to VMC versatility.



Large Work Envelope with Smooth Chip Flow

- Base Wash & Coolant Shower
- Dual Internal Chip Augers
- X & Z Axes are Completely Covered

Arumatik®-Jr CNC Controller

The Mycenter-4XiD is equipped with the latest, state-of-the-art Kitamura **Arumatik®-Jr** CNC Controller. Feature packed with high speed machining functions second to none, the **Arumatik®-Jr** offers up to 16x faster processing speeds when compared to today's conventional controls. Superior standard features include:

- 675 Block Look-Ahead
- 1280 Meters Memory
- USB Memory Interface and Ethernet I/F for Faster and Smoother Program Transfer

Additional value added features offer increased reliability in more complex part processing to simplify your more demanding machining challenges.

Mycenter-4XiD

SPECIFICATIONS

Table

Table Size	500 x 1,120mm (19.7" x 44.1")
T-Slot (Width x Qty.)	18mm (0.71") x 5
Max. Table Load	1,000kg (2,200 lbs.)

Travels

X-Axis Travel	1,020mm (40.2")
Y-Axis Travel	510mm (20.1")
Z-Axis Travel	510mm (20.1")
Distance from Table Top to Spindle Nose	100 to 610mm (3.9" to 24.0")

Spindle

Spindle Taper	#40 NST
Spindle Speed	12,000min ⁻¹ NRG Belt Drive
Spindle Motor	26kW (35HP) AC/Peak
	22kW (30HP) AC/10 min
	18.5kW (25HP) AC/30 min
	15kW (20HP) AC/Cont.

Feed

Rapid Feed X,Y	48m/min (1,889ipm)
Rapid Feed Z	42m/min (1,654ipm)
Cutting Feed Rate X, Y, Z	20m/min (787ipm)

ATC

Tool Storage Capacity	40 Tools - CT 40
Tool Selection Method	Memory Random
Max. Tool Size (Dia. x L) (With Adjacent Tool Pots Empty)	Ø75mm x 250mm (Ø3.0" x 9.7")
	Ø150mm x 250mm (Ø5.9" x 9.7")
Max. Tool Weight	7kg (15.4 lbs.)
Tool Change Time (T-T / C-C)	2.5 seconds / 8.0 sec min.

Machine Dimensions

Required Space (W x D)	3,058 x 2,293mm (120.4" x 90.3") - <i>Super Compact!</i>
------------------------	--



Control Standard Features

- 675 Block Look-Ahead High-Speed, High-Accuracy Control
- Workpiece Coordinate System – 54 Sets
- Coordinate System Rotation
- Custom Macro Variables, 700 Pieces
- Inverse Time Feed
- Tool Offset Pairs 400 Pairs, 6 Digits
- 3-Dimensional Tool Radius Compensation
- High Speed Skip
- Thread Cutting
- Rigid Tapping
- Small Diameter Deep-Hole Drilling
- Deep-Hole Tapping Cycle
- Scaling
- Helical Interpolation
- Polar Coordinate Command
- Corner Chamfering / Corner Rounding



Machining Challenges-Simplified®

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Mycenter®-3XT
5-Axis Vertical Machining Center

EASY DOES IT!

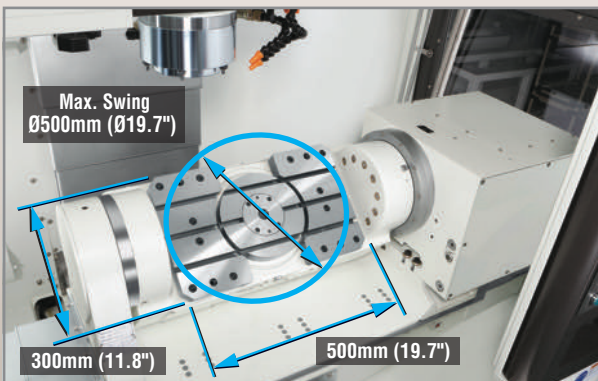
We've made complex parts machining more affordable than ever. This 5-axis trunnion machining center is designed & built using Kitamura's proven trunnion technology. It delivers the accuracy, performance and reliability to meet today's growing demand for complex components processing. The generous work envelope houses a rigid factory installed tilting trunnion table and powerful 35hp spindle that stand up to rigorous cuts in today's tough materials.

Check these important benefits:

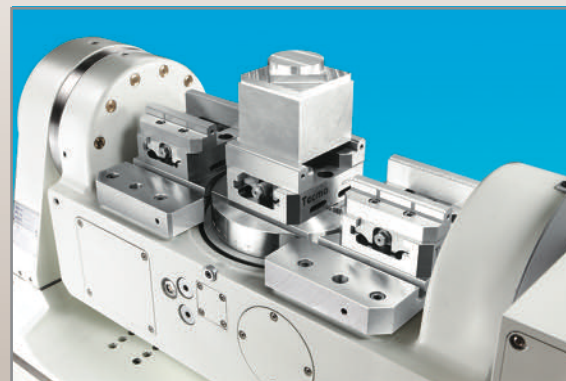
- Multiple surface machining in a single set-up
- Single work fixturing maintains geometries – ensures optimum accuracy
- Minimize the need for additional machines required for secondary operations
- Reduce Floor Space and Overall Operating Costs



*The high-performance ATC holds **40 tools** and provides "operator-friendly" accessibility for easy tool loading.*



Machine multiple surfaces in one set-up with the Mycenter-3XT's 5-axis machining capability. Easy and expansive table access streamline and simplify workpiece loading and unloading for larger diameter parts at the same time offering flexibility in fixture set-up for smaller part processing.



The integrated trunnion table offers the rigidity, accuracy and stability needed to productively machine complex part geometries. For those accustomed to 3-axis machining, the built-in table design of the tilting trunnion allows for high tech, high precision parts to be machined simpler and easier with less handling.



Arumatik®-Jr CNC Controller

The **Mycenter-3XT** is equipped with the latest, ultra-high speed, feature-packed Kitamura **Arumatik®-Jr** CNC Control, designed specifically for high quality machining with smoother finishes and faster performance.

Super Smooth Surface (SSS) control ensures high machining stability and quality resulting in optimum accuracy at higher feed rates, shortening machining time up to 30%. A variety of components such as complicated **medical** parts, **automotive** aluminum castings and tougher **aerospace** components can be machined consistently and in the shortest time possible.

Mycenter-3XT SPECIFICATIONS

Table

Rotary Table Size with Full Table Length	Ø220mm (Ø8.7") 300 x 500mm (11.8" x 19.7")
Maximum Work Size (Dia. x H)	Ø500 x 255mm (Ø19.7" x 10.0")
Maximum Work Weight	150kg / 0~45° Tilt, 85kg / 0~90° Tilt (330 lbs / 0~45° Tilt, 187 lbs / 0~90° Tilt)

Travels

X-Axis Travel	780mm (30.7")
Y-Axis Travel	510mm (20.1")
Z-Axis Travel	439mm (17.3")
A-Axis Travel (Tilt)	- 120 ~ +40°
C-Axis Travel (Rotate)	0 to 360°

Spindle

Spindle Taper	#40 NST
Spindle Speed	12,000min ⁻¹ NRG Belt Drive
Spindle Motor	26kW (35HP AC/Peak)

Feed

Rapid Feed X, Y	48m/min (1,890ipm)
Rapid Feed Z	42m/min (1,654ipm)
Cutting Feed X, Y, Z	20m/min (787ipm)
Rapid Feed (A, C-Axes)	4,800 deg/min (13.3 min ⁻¹)

ATC

Tool Storage Capacity	40 Tools - CT40
Tool Selection Method	Memory Random
Max.Tool Size (Dia. x L) (With Adjacent Pots Empty)	Ø75 x 250mm (Ø3.0" x 9.8") Ø150 x 250mm (Ø5.9" x 9.8")
Max. Tool Weight	7kg (15.4 lbs.)
Tool Change Time (T-T / C-C)	2.5 seconds / 5.2 seconds minimum

Machine Dimensions

Floor Space W x D	3,096 x 2,293mm (121.9" x 90.3")
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Control Standard Features

- Simultaneous 4-Axis Control
- 675 Block Look-Ahead High-Speed, High-Accuracy Control
- Workpiece Coordinate System – 54 Sets
- Coordinate System Rotation
- Custom Macro Variables, 700 Pieces
- Inverse Time Feed
- Tool Offset Pairs 400 Pairs, 6 Digits
- 3-Dimensional Tool Radius Compensation
- High Speed Skip
- Thread Cutting
- Rigid Tapping
- Small Diameter Deep-Hole Drilling
- Deep-Hole Tapping Cycle
- Scaling
- Helical Interpolation
- Polar Coordinate Command
- Corner Chamfering / Corner Rounding

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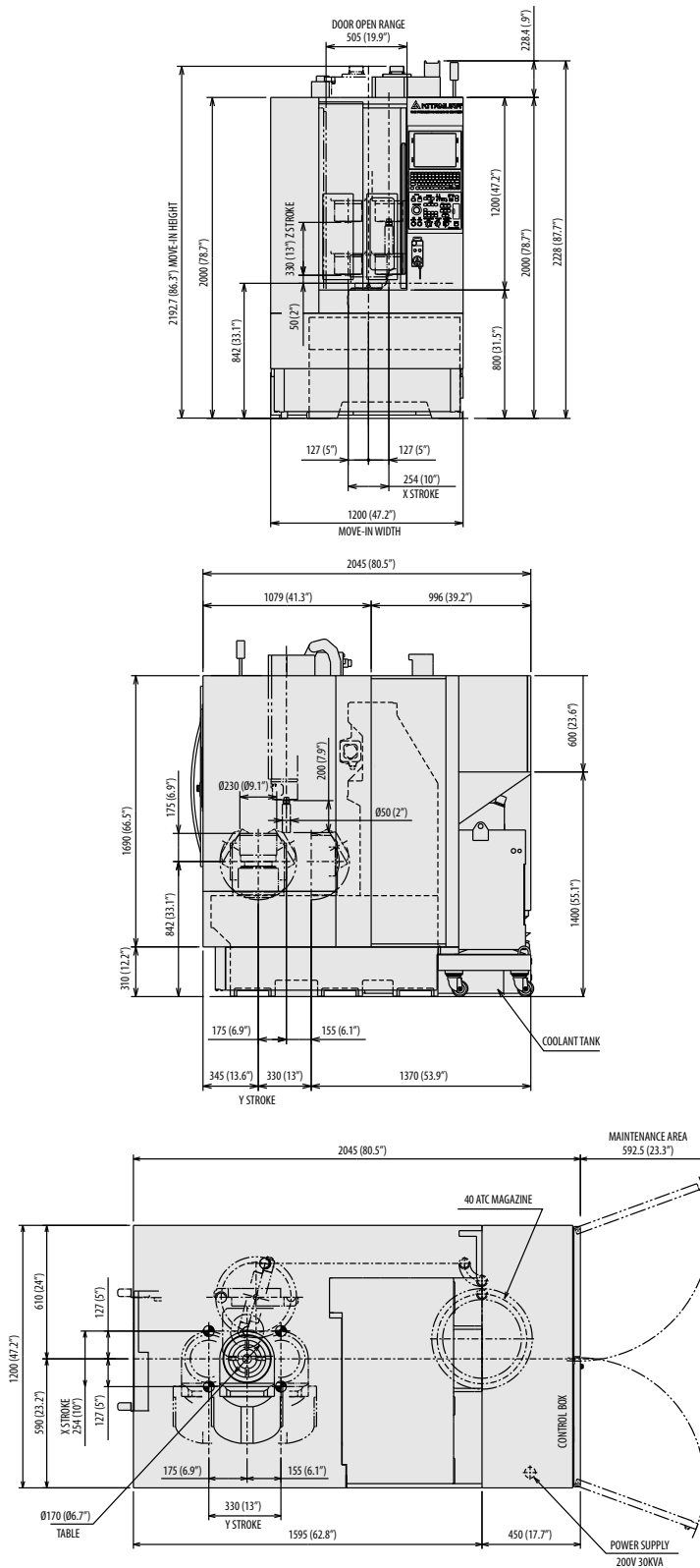
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SPECIFICATIONS *MedCenter5AX*

Table	
Size	Ø170mm (Ø6.7")
Maximum Table Load	20kg (44 lbs)
Maximum Workpiece Diameter	Ø220mm (Ø 8.7") with Limitation
Maximum Workpiece Height	175mm (6.9")
Travel	
X-Axis	254mm (10.0")
Y-Axis	330mm (13.0")
Z-Axis	330mm (13.0")
A-Axis	240 Degrees (- 120 to +120 Degrees)
C-Axis	0 to 360 Degrees
Distance from Table Surface to Spindle Center	50 to 380mm (2.0" to 15.0")
Distance from Table Center to Spindle Nose	-155 to 175mm (-6.1" to 6.9")
Spindle	
Spindle Taper	HSK-E40
Spindle Speed	300 to 30,000min ⁻¹
Drive Method	Direct Drive
Spindle Motor	18kw (24.5 HP) AC/2 Min. 15kw (20 HP) AC/Cont.
Spindle Torque	14.6 N·m (10.8 ft·lbs) / 10 Min.
Feed	
Rapid Feed X, Y-Axes	60m/min (2,362ipm)
Rapid Feed Z-Axis	50m/min (1,969ipm)
Rapid Feed A-Axis	36,000 deg/min (100min ⁻¹)
Rapid Feed C-Axis	72,000 deg/min (200 min ⁻¹)
Cutting Feed	50m/min (1,969ipm)
ATC	
Tool Storage Capacity	40 Tools
Tool Holder Style	HSK-E40
Max. Tool Diameter	Ø50mm (Ø2.0")
Max. Tool Length	200mm (7.9")
Max. Tool Weight	2kg (4.4 lbs)
Tool to Tool	1.5 Seconds
Utilities	
Power Requirement	30KVA, 200V AC, 3 Phase
Air Requirement	0.5MPa, 240L/min (90 psi, 8 cfm)
Machine Dimensions	
Required Space (L x W)	2,045 x 1,200mm (80.5" x 47.2")
Machine Height	2,228mm (87.7")
Machine Net Weight	3,790 Kg (8,338 Lbs)
Control	
	Arumatik Mi

All specifications subject to change without notice.

FLOOR PLAN *MedCenter5AX*



MedCenter5AX

HIGH SPEED 5-AXIS VERTICAL MACHINING CENTER



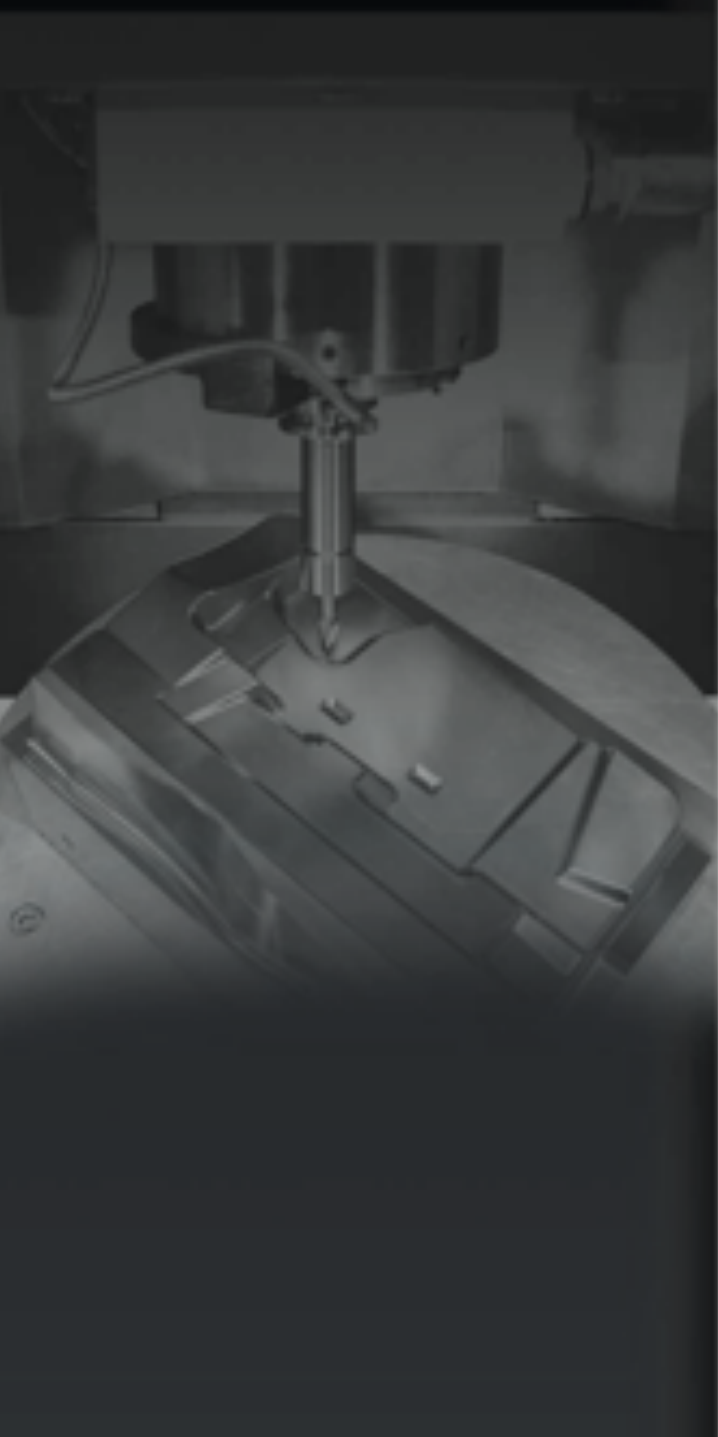
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Mytrun
SERIES



**5 - AXIS VERTICAL
MACHINING CENTERS**

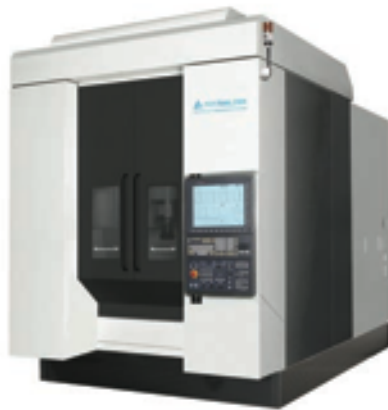
SIMPLIFY THE COMPLICATED

Mytrunnions are available in 3 sizes to meet your specific 5-Axis requirements.

Mytrunnion-4G



Mytrunnion-5G



Mytrunnion-7G



SPECIFICATIONS MYTRUNNION SERIES

	Mytrunnion-4G	Mytrunnion-5G	Mytrunnion-7G
Table			
Table Size	Ø400mm (15.7")	Ø630mm (Ø 24.8")	Ø1,000mm (Ø39.4")
Table Indexing	4th & 5th Axes 0.001°	4th & 5th Axes 0.001°	4th & 5th Axes 0.001°
Max. Table Load	200kg (440 lbs)	400kg (880 lbs)	2,000kg (4,400 lbs)
Max. Workpiece Dia.	Ø550mm (Ø21.7")	Ø630mm (Ø24.8")	Ø1,170mm (Ø46.1")
Max. Workpiece Height	400mm (15.7")	500mm (19.7")	740mm (29.1")
Travels			
X-Axis Travel	610mm (24.0")	815mm (32.1")	1,190mm (46.9")
Y-Axis Travel	610mm (24.0")	745mm (29.3")	1,380mm (54.3")
Z-Axis Travel	500mm (19.7")	500mm (19.7")	765mm (30.1")
A-Axis Travel	150 Degrees (-120 to +30)	150 Degrees (-120 to +30)	150 Degrees (-120 to +30)
C-Axis Travel	0 to 360 Degrees Full 5th Axis	0 to 360 Degrees Full 5th Axis	0 to 360 Degrees Full 5th Axis
Dist. from Table Surface to Spindle Nose (A-Axis = 0)	150 to 650mm (5.9" to 25.6")	100 ~ 600mm (3.9" ~ 23.6")	150 to 915mm (5.9" to 36.0")
Spindle			
Spindle Taper	#40 NST (HSK-A63 Option)	NST. No. 40 (HSK-A63 Option)	#50 NST (HSK-A100 Option)
Spindle Speed	40 ~ 15,000min ⁻¹ (20,000min ⁻¹ Opt.)	20 to 20,000 min ⁻¹	35 ~ 12,000min ⁻¹ (8,000min ⁻¹ Opt.)
Drive Method	Direct Drive	Gear Drive, 4-Step	Gear Drive, 4-Step
Max. Spindle Torque	95.5 N•m (70.4 ft•lbs)	273N•m (201.3 ft•lbs)/15 min	585.9 N•m (432.1 ft•lbs)
Spindle Motor	15kW (20HP AC/10 min)	15.0kW (20 HP AC/15 min)	40kw (53 HP AC/15 min.)
	7.5kW (10HP AC/Cont.)	11.0kW (15 HP AC/30 min)	22kw (30 HP AC/Cont.)
		7.5kW (10 HP AC/Cont.)	
Feed			
Rapid Feed X, Y	50m/min (1,969ipm)	50m/min (1,969ipm)	50m/min (1,969ipm)
Rapid Feed Z	25m/min (984ipm)	25m/min (984ipm)	30m/min (1,181ipm)
Rapid Feed A	18,000 deg/min (50min ⁻¹)	2,160 deg/min (6.0 min ⁻¹)	9,000 deg/min (25min ⁻¹)
Rapid Feed C	18,000 deg/min (50min ⁻¹)	6,000 deg/min (16.6 min ⁻¹)	9,900 deg/min (27.5min ⁻¹)
Cutting Feed Rate X, Y, Z	24m/min (945ipm)	24m/min (945ipm)	30m/min (1,181ipm)
ATC			
Tool Storage Capacity	60 Tools (Opt. 100)	50 Tools (Opt. 100)	100 Tools
Tool Selection Method	Memory Random	Random, Bi-directional, Fixed Pot	Memory Random
Tool Holder Style	CT (BT) 40 (HSK-A63 Option)	MAS CT (BT) 40 (HSK-A63 Option)	CT (BT) 50 (HSK-A100 Option)
Max. Tool Dia. w/ Adj. Pots Empty	Ø75 x 300mm (Ø3.0" x 11.8") Ø150 x 300mm (Ø5.9" x 11.8")	Ø75 x 300mm (Ø3.0" x 11.8") Ø150 x 300mm (Ø5.9" x 11.8")	Ø125 x 450mm (Ø4.9" x 17.7") Ø240 x 450mm (Ø9.4" x 17.7")
Max. Tool Weight	10kg (22 lbs.)	10kg (22 lbs.)	25kg (55 lbs.)
Tool to Tool	2.2 seconds	4.9 seconds	3.3 seconds
Chip to Chip	5.8 seconds, min.	9.5 seconds, min.	9.7 seconds, min.
Utilities			
Power Requirement	45KVA, 200v AC, 3 Phase	45KVA, 200v AC, 3 Phase	65KVA, 200v AC, 3 Phase
Air Requirement	0.5 MPa, 350L/min (90psi, 13cfm)	0.5 MPa, 450L/min (90 psi, 16 cfm)	0.5 MPa, 400L/min (90 psi, 15 cfm)
Machine Dimensions			
Required Space (W x D)	2,421 x 3,706mm (95.3" x 145.9")	2,428 x 4,665mm (95.6" x 183.7")	3,672 x 5,320mm (144.6" x 209.4")
Machine Height	2,850mm (112.2")	3,277mm (129.0")	4,169mm (164.1")
Table Height	750mm (29.5")	815mm (32.1")	1,110mm (43.7")
Machine Net Weight	9,100kg (20,020 lbs.)	17,400kg (38,280 lbs.)	33,000kg (72,600 lbs.)
Control			
	Arumatik®-Mi Control	Arumatik®-Mi Control	Arumatik®-Mi Control



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BRIDGEcenter[®] SERIES



**DOUBLE COLUMN
MACHINING CENTERS**

SIMPLIFY THE COMPLICATED

Bridgecenters are available in 4 sizes to meet your large component machining requirements.

*All models available with optional 2-station APC

Bridgecenter-6G

Travel: 60" x 43" x 28"
(1,530 x 1,095 x 710mm)



Bridgecenter-8G

Travel: 80" x 43" x 28"
(2,032 x 1,095 x 710mm)



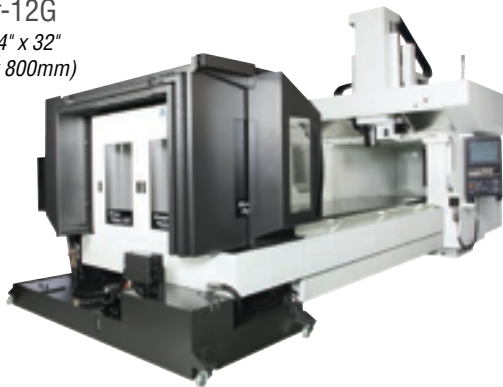
Bridgecenter-10G

Travel: 100" x 64" x 32"
(2,540 x 1,615 x 800mm)



Bridgecenter-12G

Travel: 120" x 64" x 32"
(3,050 x 1,615 x 800mm)



SPECIFICATIONS BRIDGECENTER SERIES

	Bridgecenter-6G #40/#50	Bridgecenter-8G #40/#50	Bridgecenter-10G	Bridgecenter-12G
Table				
Table Size	900 x 1,800mm (35.4" x 70.9")	900 x 2,500mm (35.4" x 98.4")	1,370 x 3,000mm (53.9" x 118.1")	1,370 x 3,500mm (53.9" x 137.8")
T-Slot (Width x Qty.)	18mm (0.7") x 7	18mm (0.7") x 7	18mm (0.7") x 5	18mm (0.7") x 5
Max. Table Load	3,000kg (6,600 lbs.)	3,500kg (7,700 lbs.)	6,000kg (13,227 lbs.)	6,000kg (13,227 lbs.)
Dist. from Floor to Table Surface	862mm (33.9")	862mm (33.9")	897mm (35.3")	897mm (35.3")
Travel				
X-Axis Travel	1,530mm (60.2")	2,032mm (80.0")	2,540mm (100.0")	3,050mm (120.1")
Y-Axis Travel	1,095mm (43.1")	1,095mm (43.1")	1,615mm (63.6")	1,615mm (63.6")
Z-Axis Travel	710mm (28.0")	710mm (28.0")	800mm (31.5")	800mm (31.5")
Dist. from Table Surface to Spindle Nose	152 ~ 862mm (6.0" ~ 33.9")	152 ~ 862mm (6.0" ~ 33.9")	150 ~ 950mm (5.9" ~ 37.4")	150 ~ 950mm (5.9" ~ 37.4")
Dist. Between Columns	1,143mm (45.0")	1,143mm (45.0")	1,696mm (66.8")	1,696mm (66.8")
Spindle				
Spindle Taper	Both Models Available in #40 NST and #50 NST		#50 NST	#50 NST
Spindle Speed	20 ~ 20,000min ⁻¹ (#40)	35 ~ 12,000min ⁻¹ (#50)	35 ~ 12,000min ⁻¹	35 ~ 12,000min ⁻¹
Drive Method	Gear Drive, 4 Step	Gear Drive, 4-Step	Gear Drive, 4-Step	Gear Drive, 4-Step
Max. Spindle Torque	266.4 N•m (196.5 ft•lbs)	585.9 N•m (432.1 ft•lbs)	585.9 N•m (432.1 ft•lbs)	585.9 N•m (432.1 ft•lbs)
Spindle Motor	22kW (20HP AC/15 min) 15kW (20HP AC/Cont.)	40kW (53HP AC/15 min) 22kW (30HP AC/Cont.)	40kW (53HP AC/15 min) 22kW (30HP AC/Cont.)	40kW (53HP AC/15 min) 22kW (30HP AC/Cont.)
Feed				
Rapid Feed X, Y, Z	24m/min (945ipm)	24m/min (945ipm)	24m/min (945ipm)	24m/min (945ipm)
Cutting Feed Rate X, Y, Z	24m/min (945ipm)	24m/min (945ipm)	24m/min (945ipm)	24m/min (945ipm)
ATC				
Tool Storage Capacity	40 Tools (Opt. 60, 80)		40 Tools (Opt. 60, 80)	40 Tools (Opt. 60, 80)
Tool Selection Method	Random bi-directional, Fixed Pot		Random bi-directional, Fixed Pot	Random bi-directional, Fixed Pot
Tool Holder Style	MAS CT (BT) 40 CT (BT) 50		MAS CT (BT) 50	MAS CT (BT) 50
Max. Tool Dia. w/ Adj. Pots Empty	#40 Ø75mm (Ø3.0") #40 Ø127mm (Ø5.0")	#50 Ø125mm (Ø4.9") #50 Ø220mm (Ø8.7")	Ø125mm (Ø4.9") Ø220mm (Ø8.7")	Ø125mm (Ø4.9") Ø220mm (Ø8.7")
Max Tool Length	400mm (15.7")		400mm (15.74")	400mm (15.74")
Max. Tool Weight	#40 10kg (22.0 lbs.)	#50 20kg (44.0 lbs.)	20kg (44.0 lbs.)	20kg (44.0 lbs.)
Tool to Tool	6.6 seconds		6.6 seconds	6.6 seconds
Chip to Chip	12.0 seconds, min.		14.0 seconds, min.	15.0 seconds, min.
Utilities				
Power Requirement	#40 35KVA, 200v AC, 3 Phase #50 45KVA, 200v AC, 3 Phase		50KVA, 200v AC, 3 Phase	50KVA, 200v AC, 3 Phase
Air Requirement	0.5 MPa (400L/min) (90 psi, 15 cfm)	0.5 MPa (400L/min) (90 psi, 15 cfm)	0.5 MPa (400L/min) (90 psi, 15 cfm)	0.5 MPa (400L/min) (90 psi, 15 cfm)
Machine Dimensions				
Required Space (W x D)	3,494 x 4,472mm (137.6" x 176.1")	3,494 x 5,866mm (137.6" x 230.9")	4,168 x 7,660mm (164.1" x 301.6")	4,168 x 8,800mm (164.1" x 346.5")
Machine Height	3,883mm (152.9")	3,883mm (152.9")	4,006mm (157.7")	4,006mm (157.7")
Machine Net Weight	17,500kg (38,500 lbs.)	20,000kg (44,000 lbs.)	28,000kg (61,600 lbs.)	31,000kg (68,200 lbs.)
Control				
	Arumatik®-Mi	Arumatik®-Mi	Arumatik®-Mi	Arumatik®-Mi



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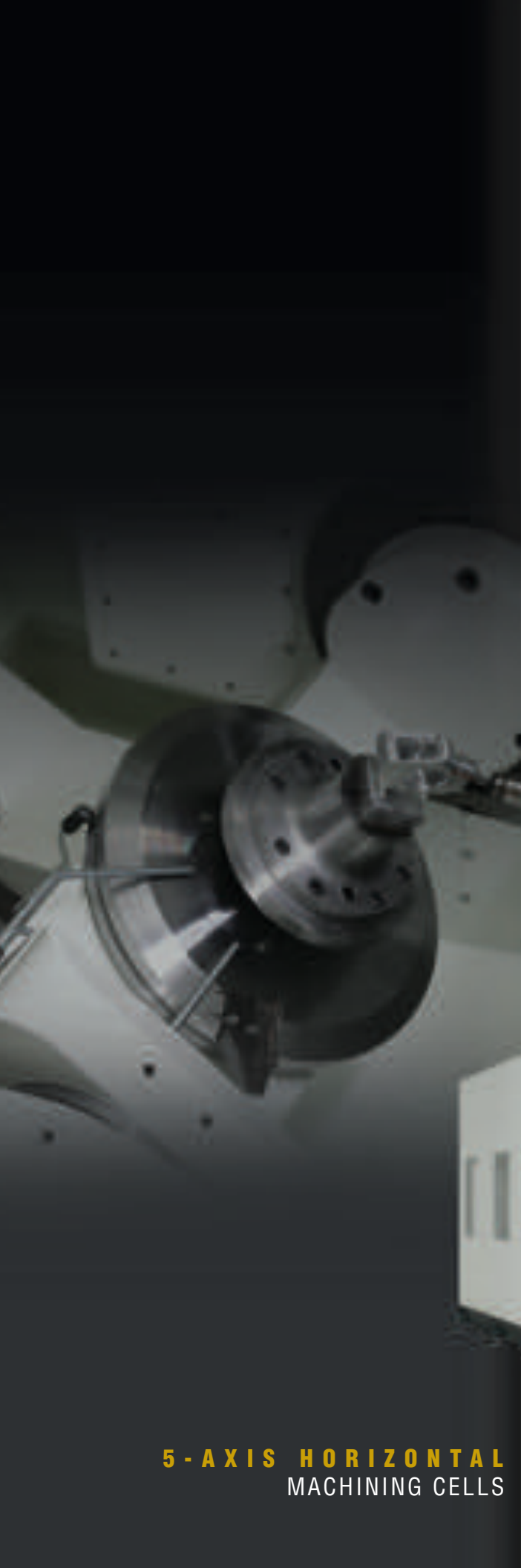
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Supercell SERIES



5 - AXIS HORIZONTAL
MACHINING CELLS

SIMPLIFY THE COMPLICATED

SUPERCELLS are available in 2 sizes to meet your specific cell production requirements.



SPECIFICATIONS SUPERCELL SERIES

SUPERCELL-300G

Travel: 18.1" x 16.1" x 18.1"
(460 x 410 x 460mm)



SUPERCELL-400G

Travel: 20.1" x 20.1" x 20.1"
(510 x 510 x 510mm)



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	SUPERCELL-300G	SUPERCELL-400G
Table		
Pallet Size	Ø200mm (Ø7.9")	Ø350mm (Ø13.8")
Table Indexing	0.001 Degree (4th / 5th Axes)	0.001 Degree (4th / 5th Axes)
Max. Pallet Load	20kg (44 lbs.)	80 kg (176 lbs.)
Max. Workpiece Dia. x H	Ø210 x 220mm (Ø8.3" x 8.7")	Ø400 x 300mm (Ø15.7" x 11.8")
Travels		
X-Axis Travel	460mm (18.1")	510mm (20.1")
Y-Axis Travel	410mm (16.1")	510mm (20.1")
Z- Axis Travel	460mm (18.1")	510mm (20.1")
A-Axis Travel	+30 to -120 Degrees (*with some restrictions)	0 to -100 Degrees (*with some restrictions)
B-Axis Travel	0 to 360 Degree	0 to 360 Degree
B-Axis Ctr. to Spindle Nose	60mm ~ 520mm (2.4"~20.5")	100mm ~ 610mm (3.9" ~ 24.0")
Table Surface to Spindle Ctr.	-100mm ~ 410mm (-3.9" ~ 16.1")	-200mm ~ 310mm (-7.9" ~ 12.2")
Spindle		
Spindle Taper	NST. No. 40	NST. No. 40
Spindle Speed	200 ~ 20,000min ⁻¹	20 ~ 15,000min ⁻¹ (20 ~ 20,000min ⁻¹ Opt.)
Drive Method	Built-In	Gear Drive, 4-Step
Max. Spindle Torque	118.0 N•m (87.0 ft•lbs)	273 N•m (201.3 ft•lbs) / 15 Min.
Spindle Motor	22kw (30 HP AC) /15 min 18.5kw (25 HP AC) / Cont.	15kw (20 HP AC) / 15 min 11kw (15 HP AC) / 30 min. 7.5kw (10HP AC) / Cont.
Feed		
Rapid Feeds X, Y, Z	60m/min (2,362ipm)	50m/min (1,969ipm)
Feed Rates A / B-Axes	18,000 deg/min (50min ⁻¹)	2,400 deg/min (6.7min ⁻¹) / 12,000deg/min (33.3 min ⁻¹)
Cutting Feed Rates	0 ~ 60m/min (2,362ipm)	0 ~ 50m/min (1,969ipm)
APC		
Number of Pallets	20 (40, 80 Opt.)	20 (40, 80 Opt.)
ATC		
Tool Storage Capacity	174 Tools (230, 258, 314 Opt.)	140 Tools (190, 290 Opt.)
Tool Selection Method	Shortest Path, Fixed Pot	Random bi-directional, Fixed Pot
Tool Holder Style	MAS CT (BT) 40	MAS CT (BT) 40
Max. Tool Diameter	Ø95mm (Ø3.7") / Ø150mm (Ø5.9")	Ø95mm (Ø3.7") / Ø150mm (Ø5.9")
Max. Tool Length	350mm (13.7")	350mm (13.7")
Max. Tool Weight	10kg (22.0 lbs.)	10kg (22.0 lbs.)
Tool to Tool Change Time	1.3 seconds	2.1 seconds
Chip to Chip Change Time	2.5 seconds, min.	5.0 seconds, min.
Utilities		
Power Requirement	55 KVA, 200v AC, 3 Phase	45 KVA, 200v AC, 3 Phase
Air Requirement	0.5MPa, 350 L / min (90 psi, 13 cfm)	0.5MPa, 350 L / min (90 psi, 13 cfm)
Required Space (W x D)	3,835 x 6,006mm (151.0" x 236.5")	4,107 x 6,042mm (161.7" x 237.9")
Machine Height	2,682mm (106.6")	2,712mm (106.8")
Machine Net Weight	15,200kg (33,440 lbs.)	18,800kg (41,360 lbs.)
Control		
	Arumatik®-Mi	Arumatik®-Mi

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