

4G, 5G, 7G 5-Axis Machining Centers

Mytrunnion-4G



5-Axis powerhouses for today's more intricate and complex machining applications.

Mytrunnion Series 5-Axis Machining Centers deliver the exceptionally high levels of accuracies demanded by producers of high-precision complex components. They have the capacity and power to cut the vast array of materials used in today's demanding industries such as aerospace, medical and mold.

- The perfect choice for machining intricate parts requiring simultaneous 5-axis contouring
- Ultra-high accuracies of +/- 0.002mm (+/-0.000079") / full stroke
- Highly rigid, ultra-high precision Roller Gear Cam Table in 4th and 5th axes
- Kitamura's original Icon-driven Arumatik®-Mi control delivers super-fast, super-smooth control processing for optimum machining of complex workpieces and included are a variety of simultaneous 5-axis machining control functions as standard features

- Available in three sizes, the Mytrunnion Series is designed for ultra high-precision simultaneous 5-Axis machining of complex components up to Ø1,170mm x 740mm high (Ø46.1" x 29.1"). Superior rapid feeds of 50m/min (1,969ipm) X, Y-Axes position the spindle and work quickly for unmatched productivity.
- The trunnion table features "zero-backlash" construction and is driven by an ultra high-precision roller gear cam in the 4th & 5th axes. The trunnion design assures maximum stiffness and machining flexibility by allowing the workpiece to be positioned closer to the spindle.
- All models feature 150 (-120 to +30) degree A-Axis tilting trunnion tables. C-Axis table rotation is 360 degrees with a 0.001 degree minimum indexing command.

Arumatik®-Mi Pioneering Icon CNC Operation

- 67 million Pulse Encoder technology with up to 8,192 block look ahead processing speed
- Software upgrades throughout the life of the control
- Fanuc user-friendly
- Customizable and comfortable user experience
- Video Guidance and Visual Programming screens
- Advanced 5-axis NC simulation & verification software
- Anywhere-Remote® mobile notification and machine monitoring suite

- Efficient, ultra-high speed tool handling slashes idle time. Mytrunnion 5-axis vertical machining centers employ a variety of tool selection systems well suited for any application. Generous 50/60T (100 opt.) ATC's are conveniently located toward the rear of the machine for optimum operator accessibility, offering flexibility in the parts you produce.

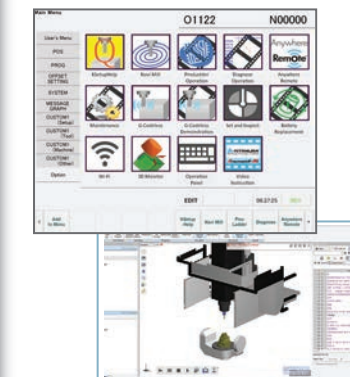
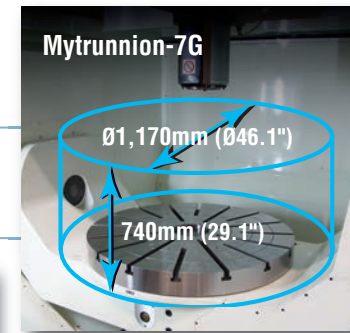
Mytrunnion-4G



Mytrunnion-5G

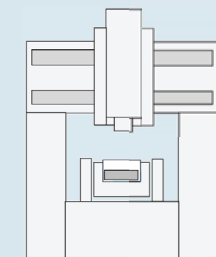
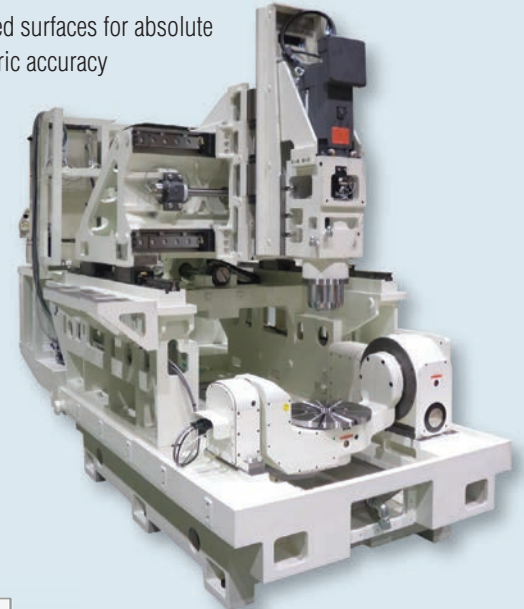


Mytrunnion-7G



Designed for speed, rigidity and flexibility in complex 5-axis machining.

- Double column bridge type construction
- Built-in trunnion design allows for maximum stiffness and flexibility with the ability to position the workpiece closer to the spindle
- Premium grade Meehanite cast iron castings
- Hand scraped surfaces for absolute true geometric accuracy



Dynamic Double Column Construction

Outstanding support and stability even throughout long Y-Axis stroke movement offers exceptional cutting load characteristics and optimum accuracy. Symmetrical construction extends thermal stability over the Y-Axis travel.



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

Mytrunnion-4G



Mytrunnion-5G



Mytrunnion-7G



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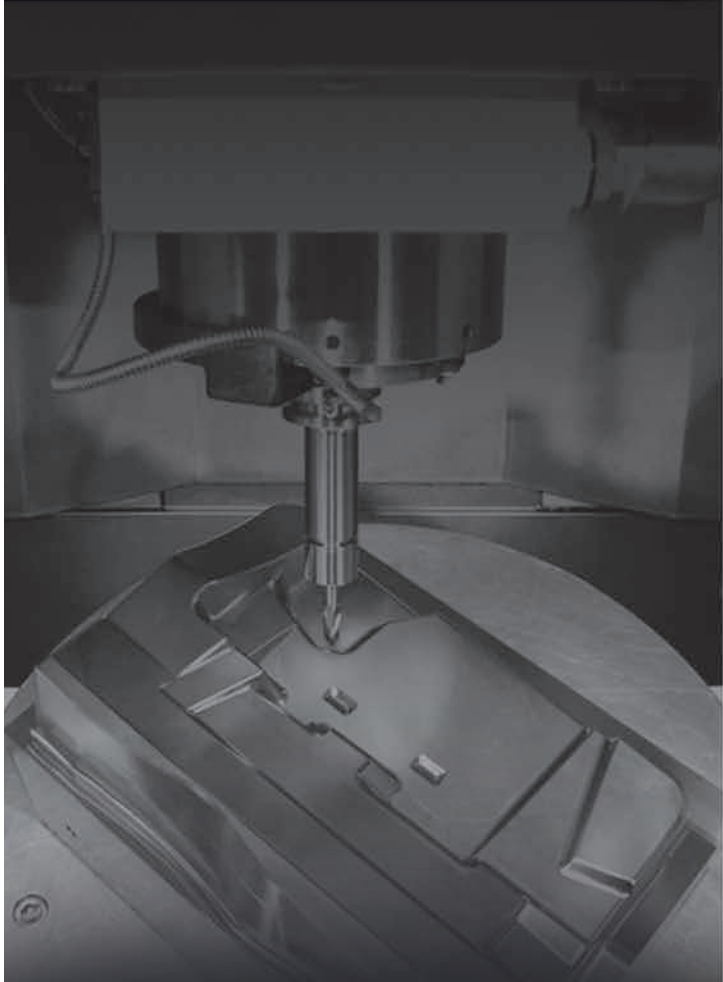
SPECIFICATIONS MYTRUNNION SERIES

	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)	2,250 deg/min (6.25 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	5.9 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	50KVA, 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)	2,476.5 x 4,156.3mm (97.5" x 183.3")	3,427.6 x 6,735.9mm (135"x 265.2")	3,672 x 5,320mm (144.6" x 209.4")
Machine Height	2,850mm (112.2")	3,212mm (126.5")	4,169mm (164.1")
Table Height	750mm (29.5")	815mm (32.1")	1,110mm (43.7")
Machine Net Weight	9,100kg (20,020 lbs.)	15,730kg (34,606 lbs.)	33,000kg (72,600 lbs.)
Control			
	Arumatik®-Mi Control	Arumatik®-Mi Control	Arumatik®-Mi Control

Specifications subject to change without notice.

 **KITAMURA®**
Machining Challenges-Simplified®

Mytrunnion
SERIES



**5 - AXIS VERTICAL
MACHINING CENTERS**

SIMPLIFY THE COMPLICATED