

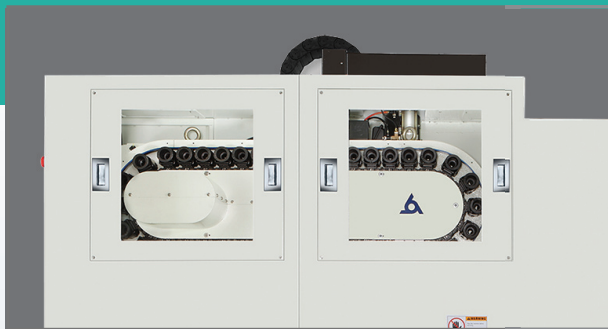
# **Mycenter-3XVT** 5-Axis Vertical Machining Center

# EASY DOES IT!

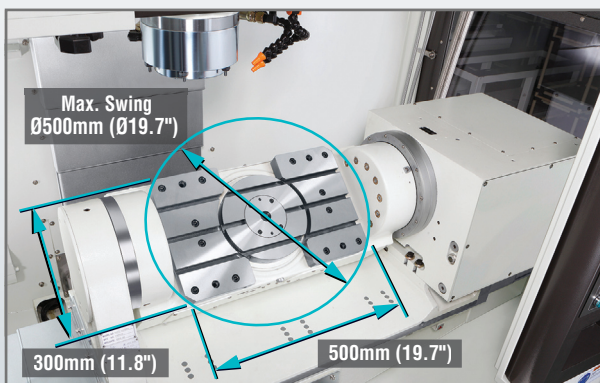
We've made complex parts machining more affordable than ever. This 5-axis trunnion machining center is designed & built using Kitamura's proven trunnion technology. It delivers the accuracy, performance and reliability to meet today's growing demand for complex components processing. The generous work envelope houses a rigid factory installed tilting trunnion table and powerful 41HP spindle that stand up to rigorous cuts in today's tough materials.

## *Check these important benefits:*

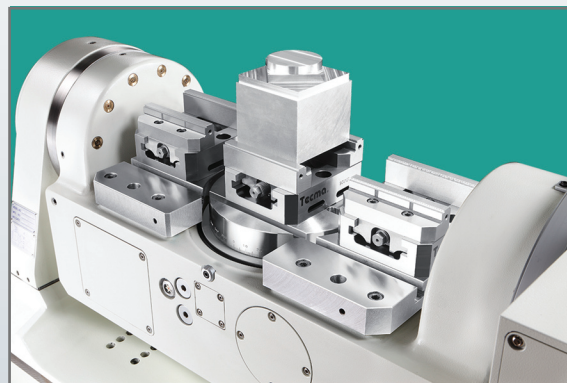
- Multiple surface machining in a single set-up
- Single work fixturing maintains geometries – ensures optimum accuracy
- Minimize the need for additional machines required for secondary operations
- Reduce floor space and overall operating costs



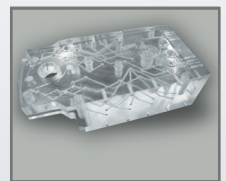
*The high-performance ATC holds **40 tools** and provides "operator-friendly" accessibility for easy tool loading.*



*Machine multiple surfaces in one set-up with the Mycenter-3XVT'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-3XVT** 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-3XVT 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")
Max. Table Load	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	15,000min <sup>-1</sup> Built-in
Spindle Motor	31kW (41HP) AC/2 min 25kW (33HP) AC/Cont.

### Feed

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

### ATC

Tool Storage Capacity	40 Tools - BT/CT40
Tool Selection Method	Memory Random
Max.Tool Size (Dia. x L) With Adjacent Pots Empty	Ø75 x 300mm (Ø3.0" x 11.8") Ø150 x 300mm (Ø5.9" x 11.8")
Max. Tool Weight	7kg (15.4 lbs.)
Tool Change Time (T-T / C-C)	2.2 sec / 4.2 sec minimum

### Machine Dimensions

Required Space (W x D)	3,039 x 2,293mm (119.6" x 90.3")
------------------------	----------------------------------

Specifications subject to change without notice.



## 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

**KITAMURA®**  
Machining Challenges-Simplified®

Kitamura Machinery Co., Ltd. (Headquarters)  
Kitamura Machinery of U.S.A., Inc. (Chicago)  
Kitamura Machinery GmbH (Düsseldorf)

www.kitamura-machinery.co.jp  
www.kitamura-machinery.com  
www.kitamura-machinery.eu

TEL: (0766) 63-1100 FAX: (0766) 63-1128  
TEL: (847) 520-7755 FAX: (847) 520-7763  
TEL: (0211) 65-6077 FAX: (0211) 657-90128