

MultiCam[®]

CNC Cutting Solutions

7000 SERIES **RAM-Z** **THREE-AXIS** **CNC ROUTER**



MultiCam, Inc.

1025 West Royal Lane

DFW Airport, TX 75261

972.929.4070 · Fax: 972.929.4071

www.multicam.com · sales@multicam.com

All specifications subject to change.

©2013 MultiCam, Inc. All Rights Reserved

7000 SERIES RAM-Z THREE-AXIS CNC ROUTER

Do you find yourself struggling to meet an ever-growing list of demanding application requirements? Is your business performing at a level below what it's capable of? At MultiCam, it's our goal to help you solve these problems by providing you with the right machine to help you succeed. Our 7000 Series Ram-Z three-axis router is the perfect machine to help you expand your production capabilities, lower production time, and increase overall profits.

7000 Series Features



AUTOMATIC TOOL CHANGER

- 12 - position rotary tool changer
- Bidirectional rotation
- Automatic tool length calibration
- Built in tool change routines
- Reduces job times & setup errors
- Improves accuracy



STANDARD WORKING SURFACE

- 1" thick 80-82 Durometer phenolic with grid pattern
- Low moisture absorption
- Resists heat and wear



GANTRY SUPPORTS

- 76,800 lbs. of bearing support capability
- 10 : 1 safety ratio
- Heavy-box frame steel weldments

GANTRY

- Fabricated gantry utilizing plate up to .75"
- Welded, stress relieved, and precision machined
- 35mm linear bearings on 12" centers

No machine in its class offers more features than the MultiCam® 7000 Series three-axis router.

STANDARD FEATURES:

- High-Performance Techniks Control/Drive Package
- Stress-Relieved, Precision-Machined, All-Steel Frame
- Unique Ram-Z Axis Assembly
- 2,700 IPM Rapid Traverse
- Standard Automatic Tool Calibration
- Leveling Feet
- Tool Box
- Operations Manual
- Electrical Schematics



BASE FRAME

- One-piece steel frame
- Welded, stress relieved, and precision machined
- 0.5" structural steel tubes with dual 35mm bearing rails



RAM-Z AXIS

- 12" x 12" structural steel, internally ribbed tube
- High tolerance, precision ground, helical rack-and-pinion system
- Gantry clearances up to 60"



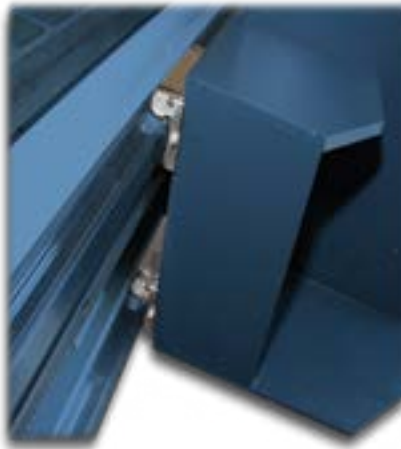
PRECISION PLANETARY GEARBOXES

- Finished ground, high-carbon alloy steel gears
- Low backlash
- High service life
- Efficiency > 97%
- Low noise level
- Single stage: 10:1



HIGH-SPEED HELICAL RACK SYSTEM

- Top speed of 2,700 IPM in less than 0.5 seconds
- Engages a greater number of teeth than straight racks
- Reduces wear and increases life of rack-and-pinion system



LINEAR BEARINGS

- 35mm linear-bearing profile rails
- Highly rigid
- Low noise
- 9,600 lb. load capacity per bearing

Specifications

Repeatability:
+/- .001"

Positional Displacement Accuracy:
+/- .005" over 10'

RAM Z Clearance:
24", 36", 48" or 60"

Rapid Traverse (X & Y):
2700 IPM

Rapid Traverse (Z):
800 IPM

Standard Spindle:
10KW, 13.4 HP (16 HP optional)

Spindle Duty Cycle:
100%

Maximum RPM:
20,000

Tool Holder:
HSK F63/ER-40 Collet

Linear Bearing Size:
35mm

Rack and Pinion (X, Y and Z):
Precision Ground Helical

Standard Work Surface:
1" Phenolic