

The New Kennard Model 318 N/C Router

The Model 318 Tri-Mill Router and Mill incorporates the proven machine tool construction features of larger Tri-Mill Routers into a model with 3 spindles and a large 24" x 60" work table.

The result is a precision printed circuit board router with most of the capacity of large Tri-Mills, but at a significantly lower price.

The Model 318 features:

- 24" x 60" work table.
- 3 18" x 24" or 2 24" x 24" workpiece capacity.
- 2-1/2" spindle travel.
- A sophisticated computer numerical

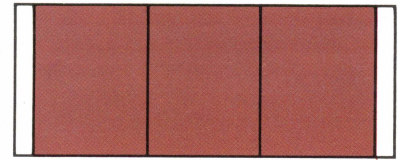
control system with the latest programming and performance features.

- A massive base that provides a stable, motionless foundation for all other machine components.
- Continuously supported X- and Y-axis ways to assure table position accuracy.
- A Z-axis support that eliminates vibration and structural movement.
- An under-base power panel for reliability and ease of maintenance.

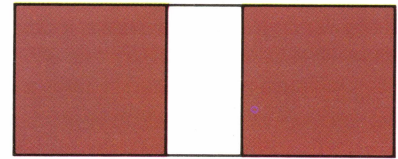
Compare the Model 318 Tri-Mill with other N/C routers. You won't find a machine with its features and capacity at the price.

Workpiece Capacity

Table size 60"x24"



(3) 18"x 24" (457mm x 609mm)



(2) 24"x 24" (609mm x 609mm)

Specifications

Standard Features

X & Y Axis

X-Axis Travel: 24" (609.6 mm)

Y-Axis Travel: 24" (609.6 mm)

Ways: 1-1/2" (38.1 mm) diameter precision ground, continuously supported

Z Axis

Z-Axis Travel: 2.5" (63.5 mm)

Ways: 2" (50.8 mm) diameter precision ground

X, Y & Z Axis:

Positioning Speed: 480 IPM

(12,192 mm pm)

Bearings: Linear Recirculating ball bushing with wipers

Servo Motors: High-performance hollow-rotor type

Servo Amplifiers: Super reliable PWM

Lead Screws: 1" (25.4 mm) diameter precision ground, preloaded zero backlash ball nut

Position Feedback: Rotary optical encoders

Position Resolution: .0001"

(.00254 mm)

Position Accuracy: ±.001" (.0254 mm)

Position Repeatability: ±.0005"

(.0127 mm)

Base Construction: Steel tube weldment filled with concrete

Spindle Drive

Drive: 3 hp TEFC

Speed: 24,000 RPM

Capacity: 7/64" to 1/2" (3 to 12.5 mm) collet

Runout: .001" T.I.R. @ collet nose

Chip Removal: Manifold and brush assembly

Utility Requirements

Power: 3-Phase 30 AMP

Air: 80 PSI @ 1 CFM
(5.6 Kgf/cm² @ 1.44 m³/hr.) shop air

Control Features

Program Input: Disk

Tape reader

Keyboard

Remote terminal
(optional)

Enclosure: free standing NEMA 12

Memory: 48K random access

Display: 9" CRT (228.6 mm)

Input/Output: isolated

Tape Reader: 300 CPS photo electric

Disk Drive: part program storage of 100 part programs totaling 3000 feet (914 m) of tape

Linear and Circular

Interpolation: all 3 axes

Programming

Leading zero suppression

Absolute or incremental

ASCII or EIA format

Full cutter radius compensation

Part size scaling

Nested step and repeat

Mirror image in X, Y and Z axis

G80 series canned cycles

Full floating zero

Single block circles

Programming with or without deceleration

Dimensions/Weight

Floor Space Required: 10' x 12'
(3 m x 3.6 m) approx.

Weight (Machine & Controller):
5,400 lbs. (2450 Kg) approx.

Optional Features

Air or mist coolant

Remote programming

Variable speed spindles: 3hp, 6000 to 24,000 RPM

Tape punch

Environmental enclosure



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Call or Write: