

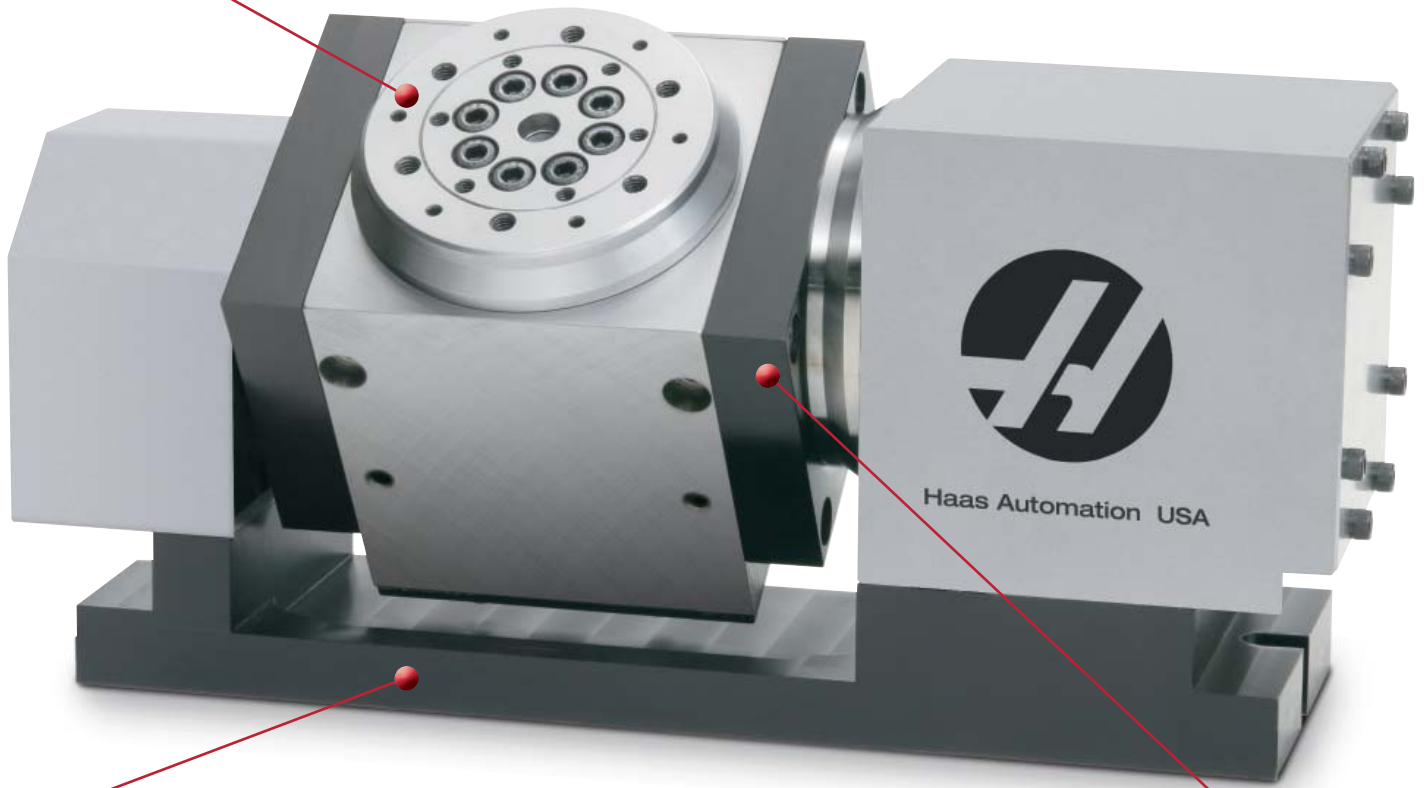
[ Special Series ]

# Haas TR110

## The Ultra-Compact Trunnion Rotary Table



Multiple bolt circles for easy fixturing



Ultra-compact size to fit even the smallest machining centers

Hydraulic brakes on both axes provide 40 ft-lb of holding force

Warranty: 1 Year Parts and Labor

### [ Standard Features ]

- Hydraulic Brakes (A & B axis)
- 300°/sec Indexing
- Harmonic Gear Drive
- Ultra-Compact Design
- Easy Programming
- Simple to Interface

### [ Options ] partial list

- Programmable Servo Control for Standalone Operation, Single- or Dual-Axis
- 4" (102 mm) 3-Jaw Manual Scroll Chuck



Haas Automation, Inc. | [www.HaasCNC.com](http://www.HaasCNC.com) | 800-331-6746 | Made in U.S.A.

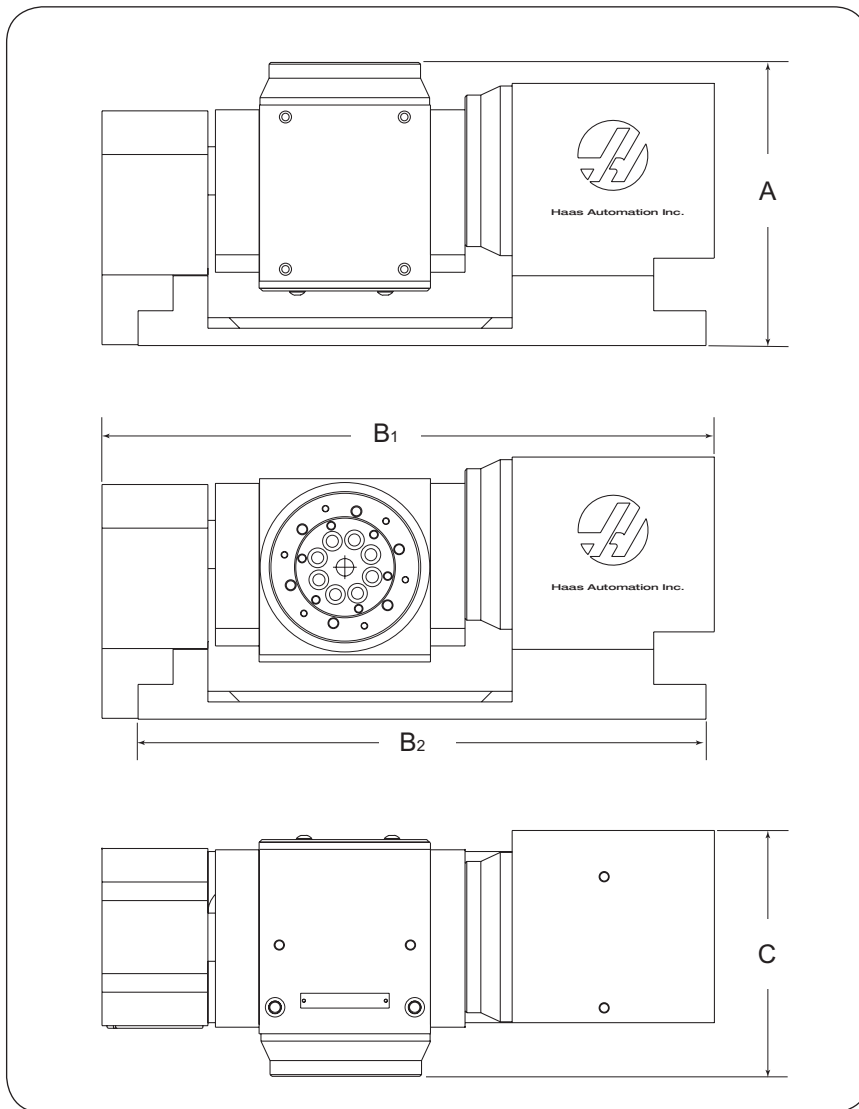
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# Haas TR110

## The Ultra-Compact Trunnion Rotary Table

The Haas TR110 dual-axis trunnion table provides accurate positioning and full 5-axis motion for machining small parts. Its small size and light weight make the TR110 the perfect 5-axis solution for even the smallest machining centers. Indexing speeds up to 300°/sec ensure fast cycle times.



### Dimensions

### TR110

A. Height	8.10"	206 mm
B <sub>1</sub> . Width, overall	18.02"	458 mm
B <sub>2</sub> . Width, base plate	16.25"	413 mm
C. Depth	7.95"	202 mm
D. Platter Diameter	4.33"	110 mm

### [ Specifications ]

#### Travels

A Axis	±120° (tilt)
B Axis	360° (rotation)

#### Platter

Diameter	4.33" 110 mm
Max Part Swing	7.35" 187 mm
Capacity	20 lb 9.1 kg

#### Speeds (max)

A Axis	0.001 to 300°/sec
B Axis	0.001 to 300°/sec

#### Spindle Torque

A Axis	65 ft-lb 88 Nm
B Axis	65 ft-lb 88 Nm

#### Brake Torque

A Axis	40 ft-lb @ 40 psi 54 Nm @ 2.76 bar
B Axis	40 ft-lb @ 40 psi 54 Nm @ 2.76 bar

#### Bolt Circles

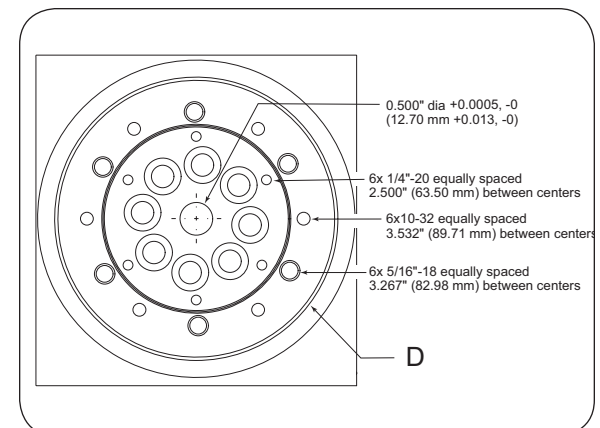
6X 5/16"-18 equally spaced on Ø3.267" (82.98 mm) between centers
6X 1/4"-20 equally spaced on Ø2.500" (63.50 mm) between centers
6X 10-32 equally spaced on Ø3.532" (89.71 mm) between centers

#### Indexing

Accuracy	±45 arc-sec
Repeatability	10 arc-sec
Resolution	0.001°

#### General

Gear Ratio	80:1 harmonic drive
Weight	85 lb 38.6 kg



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