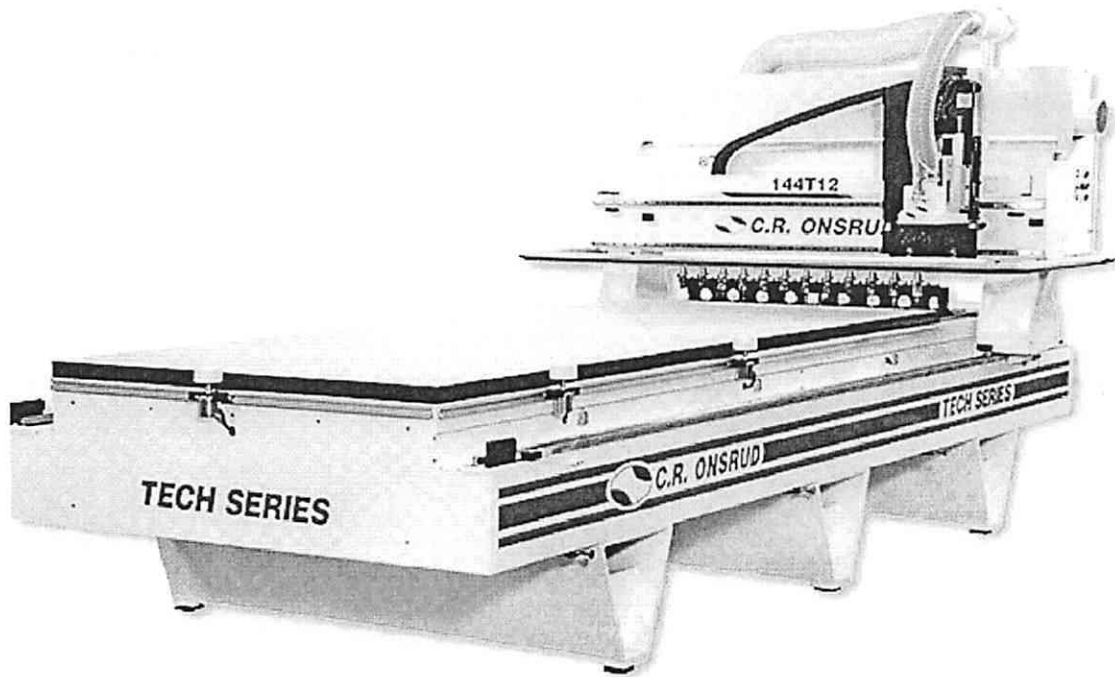




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MODEL 145T12 "Tech Series" CNC ROUTER



*Image depicted may not represent this quoted machine's exact specifications.

C.R. ONSRUD "Tech Series" CNC ROUTER

ONE (1) NEW C.R. ONSRUD MODEL 145T12 "Tech Series" CNC ROUTER
with: Reinforced Steel Bridge; Dual One-Piece-Steel Vertical Supports, Dual Drive Systems, Moving Gantry, Fixed Table Design with 2,000" per minute machining speed & 2,800" per minute rapid traverse speed, standard with full 3-D capability, precision ball screw drive for Z axis. Case-hardened, oversized, precision ground, helical rack & pinion drives for X & Y axis. Precision linear profile guide ways for all axes. SINGLE FIXED TABLE, w/3 independently controlled vacuum zones & full table coverage. Includes all switches, valves, gauges, safety interlocks, & Vacuum Plumbing necessary for either suck through or dedicated spoil boards, & is easily modified for the use of pod systems.

145 - 5x12 - Work Envelope

CR ONSRUD High-Flow Universal Vacuum Table System - CR ONSRUD High-Flow Universal Vacuum Table System

High Flow Vacuum Zone - (Includes Pneumatically Controlled Vacuum Switch)

11-inches of Z stroke - 12" under bridge clearance & 11" Z axis stroke.

5x12 - Phenolic NEMI Vacuum Grid Table - Enables the conversion from total flow-through vacuum hold-down to pods, pins, fixtures, etc.

Controller

Onsrud B&R Handheld with VNC PC Front Link - Automatic Handheld Machine Control System, Ethernet Connection, USB connectivity, & Serial connectivity. The Onsrud B&R (Automatic Machine Controller), is an open-architecture control system that is designed with simplicity, reliability, and ease of use in mind. This is a fully-functional, stand-alone, complete machine control system made entirely from standard, off-the-shelf, plug and play components that are readily available worldwide. It is manufactured by Bernecker & Rainer Automation, which is one of the largest international private control companies in the world today. The B&R provides smooth and reliable machine motion without compromising power & capability. It utilizes an intuitive, easy to understand, easy to integrate, and easy to learn interface via single labeled keys that are used to select any of the possible machine functions. The simple, conversational, intuitive menu structure allows almost all of the many features to be selected using only three soft keys. It is an easy to read, feature rich, and fully-functional display, which often eliminates the need for a PC at the machine. All axes can be incrementally jogged using the Included Hand Pulse Wheel for quick and precise manual machine positioning. Cutting Feed Rates, Rapid Traverse Feed Rates, and Spindle Speeds are adjustable on-the-fly from the hand pad. Manually control the state of inputs & outputs, with status indication for all for quick & easy machine diagnoses & troubleshooting. Multiple Jobs can be stored inside the flash memory up to 4GB of G-code (16MB standard). Ring Mode from your PC for any job that standard memory can not already accommodate. Upgrading and/or backing up the standard memory is as inexpensive & easy as the purchase of a larger compact flash card. Resume function in most cases allows the operator to pick back up in the middle of a program without a re-datum of the machine. Search Function allows the operator to start or resume in the middle of a job, or at the start of any tool, even after an E-Stop & re-datum. The B&R Controller System is based on a true rugged machine control, designed & built for hot, harsh, and dirty environments with a link to a PC, instead of using a PC, & PC hardware to operate the machine.

Head Options

12 HP Spindle - 4-Pole, 9Kw, 12HP – 24,000 RPM fully programmable, variable speed, reversible, quick-change cartridge style spindle, with air blast; capable of routing & drilling, with programmable feed rates with override capability

Integrated Dust Transition System - Integrated Dust Extraction hood pulls chips away from the spindle's nose & up a separate chamber & hood to effectively remove chips from the machining process. (Appropriately sized 6" dust transition also provided for connecting to your dropped-in flex hose)

Tech Standard Options

Pneumatic Controlled Vacuum Table Switch - (One for each table or zone). Controlled via pull switches on B & R equipped machines. Controlled via either touch screen or M-code on OSAI machines.

Continuous Production High Speed – High Accuracy Digital Brushless AC Servos - Larger servos, drives, & amps for faster feed rates, heavier cutting, & increased accuracy

Isolation Transformer Options

15kVA Isolation Transformer - strongly recommended for up to 12 HP models as an electrical noise filter. 6-tap, non-compensating transformer can be specified for your voltage in/machine voltage out

Machine Lubrication Systems Options

Standard Centralized Manual Greased Lubrication

Dust Extraction System & Stanchion Kits Options

Integrated Dust Transition System - Integrated Dust Extraction hood pulls chips away from the spindle's nose & up a separate chamber & hood to effectively remove chips from the machining process. (Dust transition also provided for connecting to your dropped-in flex hose)

Tool Changer Options

12 Tool - Hide Away Rack Tool Changer - Allows the Entire Rack tool changer Assembly to retract beneath the tables surface & adds a retracting cover to help protect tooling from dust &/or debris. This upgrade also increases compatibility with material handling, loading, & offloading systems. Able to Store Aggregates. You may not be able to hold some larger or non-standard aggregates – (w/2 free HSK-63 tool holders)

Vacuum Options

12.5HP Becker Rotary Vane Vacuum Pump - 174 SCFM System @ 27"/hg

Tripix Rack - Holds up to THREE (3) 10HP Becker Rotary Vane Vacuum Pumps