

Series II 3-Axis		Forerunner to Series III, Now Ideal Platform for Green CNC Modernization (Classic & High Velocity, Stack & 1-Up)					
<b>Design Background</b>	<ul style="list-style-type: none"> <li>Predecessor to current model Series III (1986-89)</li> <li>No longer in new production – only re-acquired &amp; modernized via <b>Green CNC</b></li> <li>Once limited by speed (round rails vs THK, non-"spin the nut" screws) &amp; narrow gantry (sufficient travel for only one routing spindle &amp; auxiliary air drill)</li> <li><b>Series II Classic</b> with pre-owned electronics ideal for smaller production &amp; budgets</li> <li><b>Series II High Velocity:</b> gantry extended 12" to accommodate programmable 5-drillhead plus spindle, hi-speed THK rails &amp; screws</li> </ul>						
<b>Industries Served</b>	Furniture	Boating	Plywood	Aerospace	Automotive	Plastics	
	Yes	Yes	Yes	Yes	Yes	Yes	
	Ideal for all types of panel machining, both stacked & 1-up						
<b>CNC Control</b>	Fanuc 0i-MD ( <i>Pre-owned Fanuc 18M for smaller budgets</i> )						
<b>Control Memory</b>	512 kb, flash port & optional Ethernet						
<b>Servo Drives</b>	<ul style="list-style-type: none"> <li>High-efficiency digital closed-loop, 1M positions per motor revolution</li> <li>50% less power consumption: faster cycles, pump energy back into power line when machine decelerates</li> </ul>						
<b>Cornering Software</b>	Bell-shaped ACC/DEC, AICC contour control, 40 block look-ahead						
<b>Display</b>	10.4" color LCD						
<b>Homing Sequence</b>	Absolute encoders -- homing no longer required; saves time						
<b>Spindle</b>	XR-15 liquid chilled (collet or power drawbar), built & serviced by Accu-Router in Tennessee						
<b>Housing &amp; Carriage</b>	32,000# tensile-strength closed-grain Meehanite cast iron (rigid, dampens vibration)						
<b>Tool Change</b>	Automatic or quick change (15 secs)						
<b>Bearings</b>	Duplex ceramic						
<b>Lubrication</b>	Internal micro-spray mist (electronic injection for 20HP model)						
<b>Drilling</b>	Fixed bearing preload can plunge up to 600 in/min, and/or optional HSD programmable electronic drillheads (5 spindles on 32mm centers)						
<b>Material Holddown</b>	Based on application: Roller Assist, Flow-Thru vacuum, traditional gasketed vacuum, or combination thereof						
<b>Ballscrew Technology</b>	<b>Classic:</b> Traditional precision ballscrews (backlash limits RPMs) <b>High Velocity:</b> THK precision screws, including "spin-the-nut" model on X axis (auto-lubricated)						
<b>Linear Motion / Rails</b>	<b>Classic:</b> Thomson round rails <b>High Velocity:</b> THK precision linear ways						
<b>Auto-Load / Unload</b>	<ul style="list-style-type: none"> <li>Optional material handling integrated to host Fanuc control</li> <li>Machine-paced production increases operator safety &amp; can double machine output</li> </ul>						
<b>Perimeter Guarding</b>	Optional: ANSI-compliant, cyclone fencing & unitized safety mats interlocked to host Fanuc control						
<b>Rapid Rates (X &amp; Y)</b>	<b>Classic:</b> 800 in/min XY, 300 in/min Z <b>High Velocity:</b> Up to 3,000 in/min XY, 800 in/min Z						
<b>Machining Rates</b>	<b>Classic:</b> Up to 800 in/min <b>High Velocity:</b> Up to 1,500 in/min (up to 1.75" stack)						

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<b>Table Sizes (Popular shown)</b>	48" x 96" (4x8')	60" x 120" (5x10')	60" x 144" (5x12')
<b>Programmable Travel: X</b>	96"	120"	144"
<b>Y (gantry)</b>	50" – 72"	50" – 72"	50" – 72"
<b>Z (vertical)</b>	7"	7"	7"
<b>Positioning Accuracy</b>	Quoted at 0.005" (almost always less)		
<b>Repeatability</b>	Quoted at 0.002" (typically half or less)		
<b>Electrical Requirements</b>	480V / 3-Phase / 60Hz (can be altered with transformer)		
<b>Shipping Weight</b>	17,000 #		
<b>Warranty</b>	Full one-year warranty with lifetime loaner spindles during repair!		
<b>Renewability (Green CNC)</b>	<ul style="list-style-type: none"> <li>▪ Can be retrofitted as new technology becomes available, and/or modernized or exchanged at end of life cycle</li> <li>▪ Competitive fixed-gantry, ballscrew-drive routers also eligible (CALL)</li> </ul>		
<b>Financing</b>	Competitive 36-60 month financing available based on credit		
<b>Training &amp; 24/7 Phone Support</b>	FREE FOR LIFE OF MACHINE		