

CNC Machine Bid Specifications  
IFB 23IFB8368

ShopSabre IS-408 Industrial Router System (55 x 100 Cut Area) 3 Phase or Equal. The use of a brand name is for the purpose of describing the standard of quality, performance, and characteristics desired and is not intended to limit or restrict competition.

- Must be American Made, no import products or resold machines.
- Must be New Equipment, no refurbished or used products.
- Must process a minimum of 55" x 100" sheet size.
- Must have a 12" gantry clearance minimum with 4" tool installed (16" full travel).
- Must be ball screw driven in 3 Axis (X, Y, and Z).
- Must have minimum travel speed of 2000IPM.
- Must have HSD Spindle in 8KW Rating.
- Must have minimum of 12 Tools on Auto Tool Changer.
- Must be Linear Rack Tool Changer – No Rotary Tool Changers allowed, No Moving Tool Changers.
- Must provide NEW Becker VTLF 2.400 Vacuum Pump with Motor Starter – No Regenerative Pumps allowed, No Used or Demo Pumps allowed.
- Must include high volume vacuum table with 4 zones with front located valves for easy operator on / off control to zones.
- Must be Phenolic Table Surface.
- Must be servo motor driven – AC Digital Motors – No DC Motors.
- Must Includes Windows OS at the machine for operating CAD/CAM software on site.
- Must include and be compatible with Vectric VCarve PRO Software License.
- Must provide loading pins (sheet alignment) – Minimum of 5 pins.
- Must include Unist System for tooling lubrication.
- Must include 4<sup>th</sup> axis system for rotation of stock/material up to 6" in diameter.
- Must be dust collection ready – prefer 4" Port with removable skirt.
- Must include CNC Controller Hardware, Software, and controller operator stand with Remote Pendant.
- Must have touch screen.
- Must have both Ethernet and Wifi compatibility.
- Must have on-board diagnostic included.
- Must include auto square procedure & error recovery.
- Must have boundary alarms with Emergency stop.
- Must Include tooling for Signs, Wood working, Aluminum, and Plastic.
- Must include 2.5" Spoil board tool with replaceable tips.
- Must provide part marker (Sharpie attachment acceptable).
- Must include maintenance kit.
- Must include life-time Support – No Term limitation to original ownership.
- Must include Training.
- Must include minimum of 2-year warranty.

Delivery FOB destination to:  
South Dakota State University  
Architecture  
Attention: Ken Lewno  
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