

Fabrication Tools Sneak Peek

An advanced rundown of some of the machinery debuting at NASCC next May.

IT MAY STILL BE MONTHS AWAY, but manufacturers are gearing up for the 2010 NASCC: The Steel Conference exhibition scheduled for May 12-14 in Orlando. Here are early tips on some of the new and interesting fabrication equipment that will be at the show.

Voortman Corporation will introduce its new V806 Structural and Plate Plasma Cutting System. This new design performs all structural connections in one machine, including layout, to drastically reduce labor and material handling costs. The new V505-2 Angle line with multiple tools, single cut shear, fully automatic loading and unloading and piece marking will be shown for the first time. The V320 Plate Processing Center also will be introduced. This new design will produce any shape using plasma cutting and a high-speed drilling head with 10-tool changer.

Years of development have gone into the new REVOLUTION copier that **Controlled Automation** will introduce at the NASCC 2010 show. This five-axis cartesian robot hybrid is the first of its kind. Structural members are processed with the aid of a tool changer for both oxy-fuel and plasma cutting. The combination of these technologies allows for the speed of plasma and the tight tolerances and thicker production parts associated with oxy-fuel cutting. The machine can process members up to 48 in. wide.

In addition to its popular Oceanettes, **Ocean Machinery** will be exhibiting its latest version of the Ocean Liberator (below), a five-axis beam coping workhorse. The versatile Liberator processes beams, columns, channels, angle, tube and flat bar. It will cut to length, perform all standard and custom copes, and bevels in both the web and flange for full-pen welds. This machine straddles the divide between the company's Avenger single-spindle drill and the PCD/BDL three-spindle beam line markets. With its affordable

price of less than \$150,000, it is a perfect fit for the medium fabricator doing more than 120 tons of steel per month.

Daito U.S.A. Inc. plans to introduce its all-new CNC Coping Robot model CRII7030, which offers highly advanced controls for its Six-Axis Robotic Arm. Software is also included that allows you to download to the machine from most detailing programs. The extraordinary capabilities of the six-axis robot allow this machine to produce an endless array of copes that are remarkably fast, accurate and also smooth.

After having introduced six new machines at the past two NASCC conferences, in Nashville and Phoenix, **Peddinghaus** will introduce two more innovative tools in Orlando. The patented Revolution AFCPS 833 Detail Master processes 8-in. by 8-in. by 1-in. angle iron, 12-in. by 1-in. plate, and 12-in. channel. No other machine provides this capacity for detail components needed for steel construction. Another new machine from Peddinghaus also



will be unveiled. Both are designed to meet the need for increased productivity and efficiency in a tough market.

Behringer Saws will exhibit for the first time a "lift and carry" system, in addition to its broad array of high quality band saws and circular saws. Demonstrations throughout the course of the event will use a W24 beam to show how a saw and integrated material handling can boost sawing efficiencies.

Ficpe Corporation will introduce its new Gemini line of CNC Gantry Style Burn Tables that also drill, mill, countersink, tap and mark. The Gemini incorporates a high performance machining

spindle (8,000 rpm) with an automatic tool changer and ball screw feed. To increase productivity, the system includes a secondary "X" axis so the spindle can position





and machine parts without having to move the gantry. The Gemini includes internal material clamps within the gantry to secure the stock plate for subsequent operations.

The PythonX Structural Fabrication System, manufactured by **Burlington Automation**, is a beam line and copier all in one machine. It uses the latest in robotics and plasma technology to fabricate I-beams, channels, HSS, angle and strip plate all on one machine. The PythonX can produce bolt holes approved for structural joints, produce cope cuts, slots, cutouts, cut to length, miter cut,

produce T-Beams, and scribe part/layout marks using one robotic plasma torch all in one place eliminating time lost to material handling between operations. It also saves valuable shop space.

Scotchman Industries will feature its Dual Operator 85-Ton Hydraulic Ironworker. This American-made ironworker with five built-in stations offers the versatile, flexible and dependable features that Scotchman is known for. The DO 8514-20M has an 85-ton capacity punch and a 14-in. throat depth, which can punch a 1 $\frac{1}{16}$ -in. hole in 1-in. material. Its hydraulic system is designed with two pumps to ensure full hydraulic pressure and speed to both operations, complete with two valves, two stroke controls and two remote foot pedals. Standard features include 6-in. by 6-in. angle shear and a rectangular notcher that can notch 2 in. by 4 in. through $\frac{1}{2}$ -in. material. **MSC**

