



## MUNROE INSTALLS NEW CNC TUBE BENDING UNIT AT RINGGOLD FACILITY

Munroe, Inc., an industry leader in the fabrication of BOF and EAF hood components for the steel industry and boiler components, water walls and tubular elements for the power generation industry, recently invested \$750,000 in the purchase and installation of a new Crippa 114HE CNC tube bender at the company's Ringgold, Georgia facility.



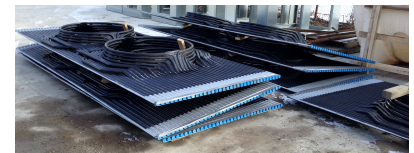
The new unit will allow Munroe to make consistent, high-quality, tight-radius bends without significant ovalization, wall thinning, wrinkling or flat spots that can occur during traditional hand bending.



According to Sales Manager Tony Manuel, "Bending is a real art, but with it comes real flaws. This machine takes the human flaw factor out of the equation." Manuel also explained that unlike hand bending, which requires a heavier wall for tight radius bends, the new tube bender unit can utilize thinner wall tubes without sacrificing bend quality or wall thickness.

### **Better and faster.**

The Crippa designed and produced tube bender offers multiple, fully automatic bending cycles. Compared to existing bending machines of the same size, the unit installed at Munroe provides higher rigidity and better performance. With the addition of new bend dies, the machine will be able to bend a 5" OD tube.



The new tube bender is also extremely fast and efficient. The relatively small size of the bending head allows the creation of close shapes in a single cycle, even for tubes that normally require two-way bending. As a result, productivity and accuracy improvements will be significant.

Additionally, the unit's 3-D graphics software and the User ISO Interface (UII), facilitates trouble-free programming, simulation and optimization of the bending cycle.

The tube bender at the Munroe facility has no hydraulics. All nine axes are driven by electric motors with digital full electric technology and controlled by the Siemens 840 Dsl CNC. This provides high quality bending, cost-saving energy conservation, and low to zero waste in setup.