A.W. Bell to Exhibit Cutoff, Grinding Equipment

A.W. Bell Machinery P/L will demonstrate options for cutoff and grinding operations at its booth (#600) at the World Conference on Investment Casting Equipment Expo in Dallas.

The RGS230, a rotary-bed grinder with programmable rise and fall action, is ideal for ingate removal on investment castings. The 31½" (800mm) table has 1/2" tee slots as standard for fast tooling changes. It is designed for use with standard 4" x 132" long (100mm x3350mm) abrasive belts, which are the most economical size for ingate removal. Belt tracking is electronic and is adjusted from the front panel at the operator position. The machine is fully PLC-controlled and all electronics are housed in an electrical enclosure which also houses an operator interface panel.

The RGS230 rotary bed grinder with programmable rise-and-fall action makes this machine ideal for ingate removal of investment castings .

This panel displays operating modes, and machine and maintenance alarms. It allows for digital programming of the following parameters: grind rate, finished height, ingate height, belt oscillation distance, incremental feed and spark out cycles as standard. Up to 850 different parts can be saved and recalled by part number.

The RGS230 has an built-in power pack which supplies hydraulic power for the spindle brake for rapid stops and hydraulic belt tensioning.

For manual operations, A.W. Bell's MPS40 abrasive cutoff saw features a massive 20" cutting wheel. Designed with the operator in mind, it has flexibility in movement, hydraulic height adjustment and a two-button safety circuit for uncompromising safety. The unit now incorporates tilt adjustment for even more flexibility.

A great companion for Bell's manually operated cutoff saw is a hydraulic operated three-jaw power clamp, the PCS20. The clamp attaches to the pouring cup, and can be designed for a wide range of cup sizes. Once the cup is clamped in place, the operator has the ability to rotate the tree 360 degrees to allow for quick and easy alignment of cut as well as adjustment of the tree for consecutive cuts without releasing the clamped jaws. A hydraulic brake ensures location is kept while cutting. The clamp is easily integrated into the hydraulic system of the MPS30 or MPS40, or if required, sold with its own independent hydraulic power supply.

The hydraulic three-jaw power clamp (left) is a great companion for the MPS 40 manual cutoff machine, (above) which will be in operation at the expo.

Buntrock Industries, Koster Keunen, MPI and A.W. Bell Exhibitor Block to Span Investment Casting Process from Wax Injection Through Cutoff and in Between

Four exhibitors at the 12th Conference on Investment Casting Equipment Expo are cooperating to form an exhibitor block with equipment and products spanning the entire process from wax injection and assembly through cutoff operations.

Buntrock Industries, Inc., a full-line distributor of investment casting products and equipment, located in Booth 500 with wax supplier Koster Keunen, has located its exhibit between equipment manufacturers MPI (Booth 401) and A. W. Bell (Booth 600).

Buntrock distributes equipment of both companies. MPI will demonstrate its "Smart Controls Wax Injector" and "Process Vision System." A.W. Bell will demonstrate both automated and manual cutoff machines, plus a new hydraulic power clamp technology.

Buntrock will also display new technology and literature on casting waxes from Koster Keunen. A new highly accurate IR Pyrometer, the SpectroPyrometer will be presented in cooperation with FAR Associates. Shell specimens will be on display illustrating Buntrock's patented Fibercote® slurry systems. Also included will be a new environmentally friendly system for titanium casting, and a fiber-enhanced improved first-coat system designed to conserve zircon.

Tom Branscomb, director of technology for Buntrock Industries, will be presenting a paper covering the fiber-enhanced, zircon-saving first coat. Buntrock's new R&D facility in Portland, OR, has partnered with Kovatch Castings of Uniontown, OH, to provide the data from this new first coat system.