

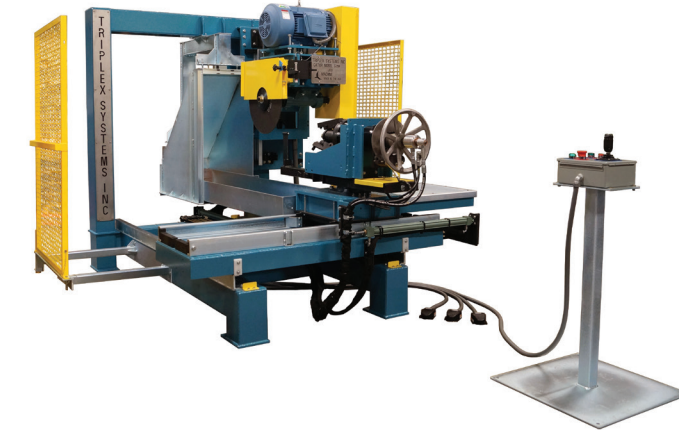
Designed Precision Castings Inc. Invests in the Future

by Jan Holland, CEO and Chairman of Designed Precision Castings Inc. and Joseph Tebbe, President of Triplex Systems, Inc.

When the team at Designed Precision Castings (“DP Cast”) first approached Triplex Systems, Inc., they knew what they were looking for. Having upgraded and automated their shell department with a VA Tech Ceramic Shellmaking System as part of a top-to-bottom review, they identified the next potential bottleneck in production – post-cast operations and set their sights on a state-of-the-art solution: Triplex’s “High-Pressure Waterjet Casting Cleaning Center,” and remote-controlled “GATOR™ Abrasive Wheel Cut-Off Machine.”

“We’ve been consistently upping our game to deliver a better overall customer experience – adding talent, streamlining our process through automation, and seeking ways to improve efficiencies,” said Jan Holland, Chairman and CEO. “After doing the research, analysis and site visits, all roads led to Triplex Systems in the U.S. As like-minded innovators, we know that Triplex offers more than just equipment, and their technologies help us achieve our objective: adding greater value to our customers.”

Triplex Systems was the first to introduce the manufacturing concept of “work cells” to water-jet casting cleaning and cut-off operations – an innovation that Joseph Tebbe, President of Triplex Systems, formally presented in a technical paper to the investment casting industry. Having numerous



Above: Model G20 Gator Remote Controlled Abrasive Wheel Cut-Off Machine Below: Model TRX-1250CAM Combination Automatic and Manual Casting Cleaning Center



successful applications, Triplex remains on the cutting edge of post-cast finishing operations.

The design experts at DP Cast decided on a “work cell” similar to the installations they viewed at Triplex Systems, and acquired a Model TRX-1250CAM Combination Automatic and Manual “Precision Cleaning” 5 Axis Waterjet Casting Cleaning Cen-

ter, as well as a Model G20 remote controlled “Gator” 5 Axis Abrasive Wheel Cut-Off Machine. Triplex provided the equipment layout for the work cell, and overhead gantry crane for ease in moving investment cast trees from cleaning directly to cut-off.

“We introduced the combination of automatic and manual cleaning in a single cleaning solution over

20 years ago,” said Joseph Tebbe. Often our “Random Automatic Nozzle Movement” Automation cleans 90% to 100% of most cast-tree configurations; however, with more complex geometries, it’s beneficial to have a manual cycle. By combining the cleaning operations, DP Cast now has a complete Waterjet Casting Cleaning and Finishing Department.”

The Model G20 GATOR™ Abrasive Wheel Cut-Off Machine successfully addresses the issue of safety in one of the most dangerous operations in the foundry – a refrain that Tebbe has heard from both domestic and international customers. Using remote joystick controls, the operator can be at a distance during cutting – no longer having to hold on to the tree to be cut, or to direct the cutting wheel by hand.”

“Safety has always been our first priority,” added Tebbe, and of course the customer benefit of this technology includes precise cutting, productivity and ergonomics.”

For more information on DP Cast’s aircraft-quality investment casting process, contact Jan Holland at Designed Precision Castings (DP Cast), Brampton, Ontario, Canada, (905) 453-0421 ext 28 or visit dpcast.com. For more information on the Triplex Systems state-of-the-art equipment, contact Joe Tebbe, St. Paul, Minnesota, USA, (651) 203-1600 or visit triplexsystems.com.