

Glebar's GT-610 CNC Centerless Grinder Delivers Unparalleled Production, Volume, Flexibility and Savings for Aerospace Fastener Manufacturers

GT-610 CNC Drastically Reduces Cycle Time Per Part, Provides For Quick Changeover and Rapid Setup, Reduced Floor Space, Rapid Wheel Change and Reduces Labor Cost

ANAHEIM, Calif., February 9, 2016 – Glebar Company (www.Glebar.com) developed its state of the art [GT-610 CNC](#) centerless grinding machine to infeed grind as many as eight aerospace fasteners per cycle with extreme precision and accuracy, while dwarfing the output of any centerless grinder on the market today.

The GT-610 CNC, as well as Glebar's offline P4K measuring system, are on display at the Medical Design & Manufacturing (MD&M) West, booth 2819, at the Anaheim Convention Center. The conference is co-located with several other UBM shows including Design & Manufacturing.

Glebar received its latest order for a GT-610 CNC machine last month to an aerospace fastener supplier looking to replace its old technology with a machine that could function in both a high production and quick changeover environment.

"By replacing older and rebuilt grinders with Glebar GT-610 CNC models, these aerospace parts suppliers have been able to reduce floor space, run many machines with one operator, exponentially increase production per machine, reduce cycle, changeover and setup time, decrease consumable costs, improve quality and introduce greater flexibility to handle a broader range of parts than was previously possible," said John Bannayan, president, Glebar Company.

"Teaming the GT-610 CNC with Glebar's offline P4K measuring system is a true difference maker. Setting up eight parts per cycle is the same as setting up one part per cycle on this system. On older technology, setting up that many parts to run at once introduces too much room for operator error and takes way too long," said Adam Cook, Chairman & CEO, Glebar Company. "The P4K allows for 100 percent inspection of each part: it scans all parts in a cycle (all stations) and feeds back diameter, including taper and radii, to correct wheel dress shape automatically and for the complete profile geometry. This is done in a matter of seconds, drastically reducing setup time and improving quality control."

Traditionally, aerospace fasteners go through a centerless grinding process to achieve the required diameter. Most of these processes are infeed ground at the rate of one piece per cycle utilizing 50-year old technology. This meant that for an aerospace fastener manufacturer to multiply part output, it would have to multiply the number of grinding machines on their factory floor. With the Glebar GT-610 CNC, manufacturers exponentially increase their production capacity, flexibility and automation capabilities—all within a smaller manufacturing footprint.

"One of the key advantages to the GT-610 CNC is the motorized work rest blade that adjusts the lateral position of the parts (while grinding), which is ideal for controlling flush head angles and the radius behind the fastener heads. We have a patent pending on this mechanism and no other centerless grinding company uses this technology," said Mr. Bannayan.

"We've shown our customers a lot of things that they could do differently to 'up their production' while lowering their cost. Some of the enhancements we developed included automation, in-process and offline gauging, auto-offsetting in microns, enhanced wheel dressing capability, an auto dress feature, automatic wheel balancing and acoustic emissions sensing, multiple independent position slide adjustability and incorporating advanced grinding wheel materials that exploited a higher speed grinding spindle on a more rigid and stable machine."

"Glebar is typically able to redress far less frequently when grinding these fasteners, and our smaller wheels often last much longer than wheels of larger diameters. Larger wheels also tend to rub, leading to faster wheel breakdown and frequent redressing. Titanium in particular likes to be cut not rubbed, and our machines shine when grinding materials such as titanium," said Robert Gleason, vice president of engineering, Glebar Company.

Glebar is ISO 9001 certified; it manufactures all of its machines in the United States to the highest quality standards and delivers them to clients around the world. The company supports clients with a 24/7 customer service team consisting of technicians and customer service representatives and maintains standby inventory of critical parts available for next-day delivery in North America, Europe and Asia.

For more information about Glebar's centerless grinders for aerospace applications, contact Mark Bannayan, VP

of sales and marketing at 201-644-2020 or by email at mbannayan@glebar.com.

About Glebar Company

Glebar Company (www.glebar.com) is an innovative, vertically integrated manufacturing company that designs and configures its standard platform of modular machine systems – from an affordable job shop machine to fully automated, lights-out grinding packages – to provide custom solutions focused on process improvement and margin enhancement, maximizing a customer's return on investment. Glebar serves companies in many markets, from medical and metals to automotive and aerospace. Its machines are all made in the U.S.A. to the highest quality standards and are backed by a 24/7 customer service operation, serving customers all over the globe. Glebar machines are known for their precision, longevity, flexibility and efficiency.
