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**For Immediate Release**

**Glebar Focuses on Arthroscopic Shaver Market with  
Specialized Centerless Grinder**

*GT-610 CNC Fully Automates and Speeds Production of Parts with Critical Tolerances*

FRANKLIN LAKES, N.J., June 1, 2015 – A new arthroscopic shaver application, developed by Glebar Company ([www.Glebar.com](http://www.Glebar.com)) for its advanced GT-610 CNC centerless grinder, is now delivering the most precise inner and outer tubes for use by orthopedic surgeons.

The first two systems equipped with the innovative application have been sold to a major manufacturer of arthroscopic shavers. The system will be on display for the first time at the upcoming 11<sup>th</sup> Annual Orthopaedic Manufacturing and Technology Expo and Conference (OMTEC 2015) being held at the Donald E. Stephens Convention Center in Chicago, booth 601, on June 17 and 18.

Arthroscopic shavers allow surgeons to insert a small and hollow cylindrical metal tube into a small incision in a patient. They allow surgeons to remove bone and tissue while at the same time flushing fluids and debris through the tube and out of the patient.

“Part size and tolerance is critically important, especially on the tip of these devices, and have been difficult to manufacture in volume since their

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design requires as minimal a gap as possible – as small as 0.0005 inches between parts so that the inner sleeve moves freely inside the outer tube without the risk of binding due to debris caught between the surfaces,” said John Bannayan, president, Glebar Company.

Using the Glebar GT-610 CNC to infeed grind the shape of the inner tube, Glebar is able to maintain a +/- 0.0002 inch tolerance on the elliptical tip dimensions. The team developing the application also ground three diameter features to within .0002 inches maintaining a TIR of 0.0001 inch and producing a smooth 9 Ra surface finish on 304V stainless steel with a +/- 0.001 inch wall thickness. They removed 0.012 inch in stock for the majority of the part and 0.004 inch off the tip geometry.

“The entire automated process was complete in under 20 seconds adjusting for part length variation, heat expansion and a near zero tip geometry requirement,” said Mr. Bannayan. “Our process eliminates an extra step in previous manufacturing methodologies which also left unacceptable tool marks on the surface and vastly reduced the scrap rate due to geometry imperfections.”

Outer sleeve manufacturing occurs on a Glebar GT-610 thrufeed grinder which grinds the OD of the blank tubes maintaining a surface finish between 3-6 RMS and maintains a comfortable 2-3 Cpk on the outside diameter of the part. Material removal of 0.005 inches, with a tolerance requirement of +/- 0.0005 inches, is met easily in a turnkey, fully automated process.

Glebar is already active in serving the needs of the medical marketplace. The company’s guidewire grinding machines are considered the industry standard and are used by several leading manufacturers.

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



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around the world. The company supports clients with a 24/7 customer service team consisting of technicians, design engineers and customer service reps and maintains a standby inventory of critical parts available for next-day delivery.

For more information about Glebar's arthroscopic shavers, or to schedule a meeting at OMTEC 15, contact Mark Bannayan, VP of sales and marketing at 201-644-2020 or by email at [mbannayan@glebar.com](mailto:mbannayan@glebar.com).

### **About Glebar Company**

Glebar Company ([www.glebar.com](http://www.glebar.com)) is an innovative engineering and manufacturing firm that designs and configures its standard platform of machine systems – from an affordable job shop machine to fully automated, lights-out grinding packages – to provide custom solutions focused on maximizing a customer's return on investment. Glebar serves companies in many market segments including medical, automotive, aerospace, consumer goods, metals and mining. Its machines are known for their precision, longevity, flexibility and efficiency.

Founded in 1952, the privately owned company is headquartered in Franklin Lakes, N.J. and will be moving to a new state-of-the-art facility in Ramsey in July 2015. Glebar is a vertically integrated manufacturer whose machines are all made to the highest quality standards and are backed by a 24/7 customer service operation. Glebar machines are made in the U.S. and are in operation across six continents.

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