



# MANUFACTURING NEWS

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## Multitasking CNC Bed Lathes for Turning Large Diameter Workpieces



Geminis GTi Lathe GT11i

The all-new GTi range of heavy-duty multitasking lathes from GEMINIS is now complete with the introduction of the Geminis GT11i. The largest among the GTi range, the GT11i offers 138" of swing over the bed and has the capacity to hold up to 330,000 lbs. between centers. The GT11i joins the GT5i, released in 2019 at EMO HANOVER, with 55" of swing over the bed and 13,000 lb. capacity

between centers, the GT7i with up to 78" of swing and GT9i with up to 94" of swing.

"With the GT11i introduction, Geminis now offers a complete range of highly advanced heavy-duty turning solutions that fit a wide spectrum of applications in

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## LNS Helps Nonprofit Provide Fracture Surgery to the Injured Poor



SIGN Fracture Care Richland, WA, facility

In keeping with its ongoing commitment to support global humanitarian actions, LNS provides significant discounts to organizations such as SIGN Fracture Care.

"In many parts of the world, a per-

son with a bone fracture may not heal properly due to the absence of adequate facilities, lack of orthopedic education and unavailability of implant tools and devices," said an LNS spokesperson.

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## Partnership Provides Free Experiences to Inspire Future Workforce

In 2021, Mastercam is partnering with Edge Factor to equip organizations across North America with Experience toolkits to inspire students and job seekers to pursue career pathways. This strategic workforce development initiative will provide schools, companies and workforce leaders with free access to high impact multimedia, a keynote presentation, promotional tools and practical guidebook on how to plan, promote, host and follow up on engaging Experiences. These online Experiences are designed to

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## VELO3D Partners with GoEngineer

VELO3D has announced the formation of a U.S.-wide partnership with GoEngineer. GoEngineer will operate as an extension of VELO3D, dedicating resources to educate designers about the potential of SupportFree technology for their designs, as well as sales and service expertise supporting the complete solutions portfolio including Flow pre-print software, Sapphire metal AM printer and Assure quality assurance and control system.

GoEngineer will be VELO3D's largest partner in the United States. Existing sales networks and direct purchase opportunities from VELO3D remain in place. "With

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## Timken Acquires Aurora Bearing Co.

The Timken Company, a provider of engineered bearings and power transmission products, has acquired the assets of Aurora Bearing Company. Aurora manufactures rod ends and spherical plain bearings, which serve a diverse range of industrial sectors, including aerospace and defense, racing, off-highway equipment and packaging.

"Aurora builds on our global leadership position in engineered bearings by increasing our product breadth, which will help us serve the bearing space more completely," said Christopher A. Coughlin,

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## Feature Editorial



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#### Solid Carbide End Mill



New short and long versions provide extra advantages.

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### Medical Manufacturing

#### Tooling for Medical Manufacturers

Both standard and specialized tooling are available.



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### Applying Technology

#### Special Projects Receive Special Service



Cleaning solutions meet production challenges as they arise.

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#### 15 kW Fiber Laser

Cutting head offers enhanced precision in both thick and thin sheets and profiles.



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#### High-Speed Motor Spindles



New series of motor spindles with high power density.

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## Custom Miniature Thrust Ball Bearings in Screwdriving Spindles

Auburn Bearing & Manufacturing recently assisted a customer application involving custom screwdriving spindles. The thrust bearings were located on shafts that are parallel to each other on 0.750" center lines.

"The customer had been purchasing a standard-sized miniature thrust bearing from a large bearing manufacturer for many years," said an Auburn spokesperson. "The three-piece bearing was being used in a fairly high volume (20 to 30 bearings per month) in the custom screw driving equipment and was being replaced on a regular basis.



"Because of the bearing's open style, it is subject to all sorts of contaminants and hard to keep grease in. The bearings needed to be completely taken apart and lubricated on a weekly basis. With this weekly maintenance, the typical life of each bearing was three months, and at the end of its life, you could see significant wear on all components of the bearing."

The spokesperson continued, "The customer came to us frustrated by the loss of time and productivity they were experiencing from replacing a significant amount of prematurely failing miniature thrust ball bearings. They were looking

for a new solution that would extend the bearing's life by keeping lubrication in and keeping debris out as well as reduce the downtime and inconsistencies caused by these bearing failures."

Auburn Bearing proposed a one-piece banded thrust ball bearing that would utilize a special lubricant. This custom design would serve to protect the bearing from debris and other contaminants as well as contain the grease inside the bearing. "After a three-month trial run using this new solution, the customer found that the bearing race and balls remained in great condition without having to perform any maintenance on

them," said the spokesperson.

According to Auburn Bearing, the solution increased the life of each bearing by over 200%; improved machine consistency by reducing bearing contamination and bearing failure; and reduced the cost of labor and downtime by eliminating the need to clean and re-lubricate bearings, previously performed on a weekly basis.

For more information contact:  
Auburn Bearing & Manufacturing  
4 Route 350  
Macedon, NY 14502  
315-986-7600  
sales@auburnbearing.com  
www.auburnbearing.com

## Fast LM Guide

"With speeds reaching 15 m/s, THK's Type FHS is the fastest LM guide available on the market today. The performance of the Type FHS makes it ideal for applications requiring the fastest motion, including robot transfer devices and laser cutters," said a company spokesperson.

The Type FHS can be installed in hor-

izontal, vertical, inverted and wall-mounted orientations. Four-way equal load rating in all directions (radial, reverse radial, right and left directions) helps ensure high rigidity. In addition, The FHS is constructed - with components designed to

provide stability during extremely high rates of speed.

The Type FHS is available in four sizes with LM rail widths ranging from 34 mm to 63 mm in standard or long block types.

For more information contact:  
THK America, Inc.  
200 E. Commerce Drive  
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