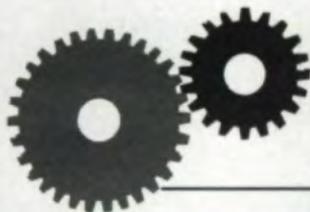


Gear Expo '95

BEST EVER



Machines, tools, software, services, even a special fashion statement filled the Indianapolis show.

Gear Expo '95, held in Indianapolis, November 12-15, 1995, closed to rave reviews from both the attendees and the exhibitors. Traffic for the show was well up from 1993, with a total of about 4,000 visitors during the 3½ day exhibition. One hundred thirty-two companies from all over the U.S. and as far away as India and The People's Republic of China displayed their wares.

"Between pre-registrations and actual visitors, we had more people in attendance by the close of the show on Sunday than we had at the entire show in 1993," said Joe Franklin, AGMA's executive director. He also indicated that the number of decision-makers in attendance was up, as was the number of international visitors.

Exhibitors and visitors agreed. "I was impressed with the number of people coming here with a real agenda in mind," said Ed Doepp of Lindberg Heat Treating. "They had real questions and legitimate interest in buying."

A wide variety of products and services from cutting tools and machines to heat treating, shot peening, inspection equipment and engineering consulting and training seminars were on display. New technologies and products for niche markets were highly visible.

Lambert AG, represented by TPS of Sussex, WI, and Parker Industries of Bohemia, NY, displayed three models of gear hobbers for plastic and composite fine pitch gears.



A steady stream of traffic flowed through the Indiana Convention Center during Gear Expo '95.

Among the machines on display at the JRM International booth was the Kesel milling machine. The only CNC rack miller in the world, this 3-axis machine features automatic leveling and 3100 mm capacity for both spurs and helicals up to 1.25 DP.

The Oerlikon Spiromat L22 CNC-controlled spiral bevel and hypoid gear lapping machine was in operation at the Liebherr America booth. This machine features a small footprint that uses 30% less floor space than the other lappers, FANUC controls, and updated software. Among its new features is the capacity

to cause the gear rather than the pinion to be the driven spindle.

Redin Corporation unveiled its new Model 18 Wash and Grind machine. This machine eliminates parts handling by combining in one operation chamfer grinding, washing and blow drying parts. The machine deburrs, washes, dries and applies rust preventative at one location in a single operation.

The PBM pot broach machine was featured at the National Broach booth. This machine has a flexible modular design that offers from 5- to 50-ton capacity in the same floor space. It has

automatic tool changing and load/unload features and is available with CNC controls. It is designed with cell and family-of-parts manufacturing needs in mind.

The Reishauer booth featured the new RZ 820 large capacity grinder with a hydraulic tailstock, shifting with closed collet, automatic balancing on the spindle, and 820 mm capacity, suitable for grinding long pinions up to 800 mm between centers.

Ash Gear & Supply was demonstrating an upgraded version of its gear calculation software program, GCP 2. The program calculates gear data for internal, external, spur, helical and worm gears, as well as racks and straight-sided splines.

Fellows displayed their new FS 180 Mark III CNC Hydrostroke Gear Shaper. This machine is designed for both high and low volume manufacture of the smaller gears found in automotive transmissions. Its new "gearless" technology features six servo-driven axes of motion for higher speeds than were previously possible. The machine also features a GE FANUC 15 MB computer control. The FS 180 has a capacity to 7" (180 mm) pitch diameter and will handle face widths to 1 1/4" or 32 mm.

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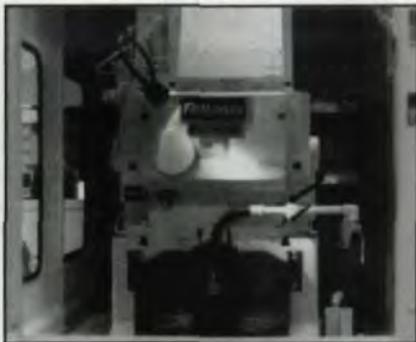


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Top: The "gearless" Fellows FS 180 Mark III Hydrostroke gear shaper in action. Bottom: The Lambert AG booth featured affordably priced mechanical hobbors for fine-pitch gears.

At work at the American Pfauter booth was the P100 hobbing machine, which the company bills as an "entirely new concept in hobbing." The P100 can handle both cutting with high-speed tools and cooling oil or dry cutting with super hard cutting materials. It features a small footprint and is designed with all components not directly involved in the cutting process located outside the working area for easy maintenance. It has anti-friction slideways of the linear axes for both maximum stiffness and accuracy, superior thermal stability and a Siemens 840 CNC control system.

Alpha 1 Induction Heat Treating Center introduced α Alphaform™, its new formable induction heating concentrator. This patent-applied-for material is a composite of insulated micro iron particles, space-age polymers and a thermal sensitive catalyst. The purpose of such concentrators is to decrease the amount of energy and/or cycle time needed to heat the part and to help control, aim, focus, shield and direct the magnetic field. Alpha 1 says that α Alphaform can save from 35 to 60% on energy and cycle times.

Lo-Tech Highlight

Perhaps the most interesting "low tech" item at the show was the centerpiece of a special unannounced event. Wendy Young, wife of Fred Young of Forest City Gear, auctioned off a special gear designer necktie at the Koepfer booth. This tie, the last one of a limited edition, featured a design of bevel gears on a dark blue background. The winner of the auction was Jim Gleason of The Gleason Works, and proceeds of the auction went to the AGMA Educational Foundation. Mr. Gleason was unavailable for comment about whether he would actually wear this piece of rare "gear art." ⚙

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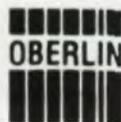
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