

Fives debuts Landis-Bryant ID/OD grinder at IMTS 2016

JUNE 2016 – Fives will debut its Landis-Bryant RU2 Fuel MGMT grinder at IMTS 2016 (Booth N-7018). This high-precision grinding technology incorporates a modular multi-surface grinder with extended flexibility to grind most complex components for fuel systems, valve and drive trains, bearings, aerospace and medical applications.

High-precision grinding technology with flexible configurations

The Landis-Bryant RU2 Fuel MGMT grinder was specifically designed for the challenging requirements of fuel system components that require tight control over related features during grinding operations through a single handling. It employs a dual-slide arrangement in Z that can accommodate up to 6 grinding spindles. The Fives booth at IMTS (N-7018), will demonstrate the 4-spindle model with a coolant through 90,000 rpm, ID spindle and multiple dressing options.

Landis-Bryant RU2 grinders offer multi-slide possibilities in both the X and Z axis with multiple work heads, wheel heads, and dressing systems that make the machine ideal for process operations such as bore, seat, and face. Its granite epoxy bed includes a thermal stability system to monitor the temperature, and together with the optional adaptive thermal compensation, provides ultimate thermal stability. A stiff hydrostatic round-bar guideway system enables precise location of all axes resulting in ultimate dimensional and geometric accuracy, due to high-resolution Heidenhain glass scales and Fanuc linear motors. Modular design enables flexibility and allows customers to choose from multiple sizes, a tremendous range of machine configurations of work spindles, grinding spindles, dressing spindles, slides, tooling and fixtures and the ability to handle parts up to 14 in (350 mm) in diameter and 7 in (177 mm) in length. The Landis-Bryant RU2 grinders can be configured as chucker, shoe centerless and center-type systems.

A complete offer of ID/OD grinders combining Landis and Bryant Grinders' expertise

“We acquired Bryant Grinders in 2015 to extend our expertise in the design and manufacture of high-precision/high-production inner-outer diameter grinders,” said Dwight Myers, CEO of Fives Landis Corp. “The acquisition broadened Fives’ Grinding | Ultra Precision portfolio in the bearing, drive train, fuel systems, medical and valve train industries, and provides a full range of aftermarket services to the installed base of Bryant grinding machines including parts, field service, machine remanufacture and control retrofits.”

**Capacity to
machine a wide
range of parts**

Other grinders in the Landis-Bryant lineup include the Landis-Bryant RU1, UL2, UF2 and Landis-Bryant Spindles. The Landis-Bryant RU1 is a single-spindle machine for small precision part processing such as bearings, fuel systems, valve train, optical and medical applications. The Landis-Bryant UL2 is best suited for high production / high precision grinding bores and faces in bearing rings, universal joint cups, valve lifters and gears, while



the Landis-Bryant UF2 is engineered for high production / high precision grinding of external diameters, faces, and forms.

A complete line of precision spindles with infinitely variable speeds up to 120,000 RPM

Landis-Bryant spindles contain super-precision bearings that permit operation at extremely high speeds, and are powered by in-house-designed induction motors to provide superior performance for efficient machining. Spindles are standard on new machines, specified for rebuilds and available for any other equipment that requires precision spindles.

For additional information, see: grinding.fivesgroup.com

About Fives in Grinding | Ultra Precision

The Group and its Grinding | Ultra precision dedicated teams - around 650 people in Italy, the U.K. and the United States - offer a complete range of grinding machines, plus a comprehensive line of systems, grinding accessories and service/support programs.

Known worldwide for leading-edge automotive camshaft and crankshaft processing systems, Fives is also a leader in centerless grinding and disc grinding processes as well as lean and flexible CNC grinders for a wide range of shaft-type components for various industries. With a strong legacy based on 4 major brands of the market – Bryant, Cranfield Precision, Landis and Giustina, and more than 200 years of expertise developing pioneering solutions in close partnership with customers, Fives is recognized as the leading provider of grinding and ultra-precision solutions – a partner that helps customers maximize operational performance.

About Fives

Fives is an industrial engineering Group with a heritage of over 200 years of engineering excellence and expertise. Fives designs and supplies machines, process equipment and production lines for the world's largest industrial groups in various sectors such as aluminum, steel, glass, automotive, logistics, aerospace, cement and energy, in both developing and developed countries.

In all these sectors, Fives designs and manufactures equipment and innovative solutions, which better anticipate and meet the needs of its customers in terms of performance, quality, safety and respect for the environment.

In 2015, Fives achieved a turnover of 1.7 billion Euros and employed 8,300 people in about thirty countries



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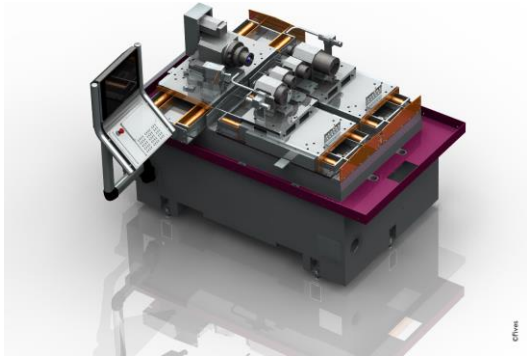
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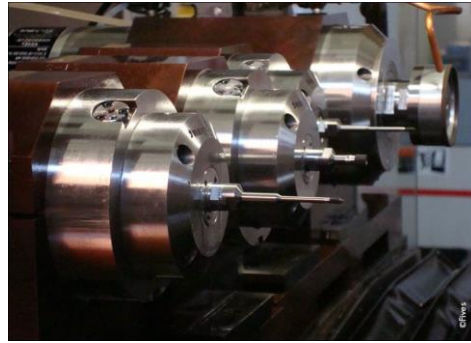
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Landis-Bryant RU2



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Dual slide (Z-axis) system



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Bore, seat & face setup