

Fives launches its high performance precision ID grinder

FEBRUARY 2017 – In 2015 Fives Landis Corp. acquired Bryant Grinder’s technology and intellectual property, adding internal and external grinding solutions to its product portfolio. After the successful debut of the new Landis-Bryant RU2 multi-surface grinder at last year’s IMTS show in Chicago, Fives now introduces the next product out of its ID/OD line-up to the market. The Landis-Bryant UL2 is an internal high speed production grinder, ideal for processing bores, faces and contours of bearing rings, valve lifters, gears, universal joint cups and CVJ components, especially suitable for machining workpieces with an external diameter of up to 177 mm.

High volume productivity with exceptional accuracy

A Machine providing high levels of rigidity and thermal stability

The Landis-Bryant UL2 has been designed specifically for high speed, high precision grinding of internal diameters. With this single purpose firmly established, performance compromises have been eliminated. The machine’s unique torque tube bed design combined with a “flow-thru” system that circulates oil and coolant through the base provides ultimate rigidity and outstanding thermal stability to the Landis-Bryant UL2 grinding system.

Independent slides in X and Z, each mounted directly to the machine bed, make for an extreme low center of gravity. The machine’s round-bar hydrostatic slide ways in each axis provide an extremely stiff system with minimum friction. Fives uses high resolution servo motors that are directly coupled to super precision ball screws for precise and reliable positioning throughout the entire production cycle.

Various configurations in a compact design

Whether your application calls for a diaphragm or collet chuck, a shoe centerless magnetic chuck setup, or a disc drive roll centerless arrangement, the Landis-Bryant UL2 allows for various machine configurations. Furthermore this machine offers automatic workpiece loading solutions for many applications as well as In- and Post-process gauging in a very compact setup. Other features of the Landis-Bryant UL2 grinder include acoustic emission monitoring system (AEMS), automatic taper adjustment, Fanuc *i* Series as well as various dressing options.

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

Fives’ ID grinding systems are equipped with Landis-Bryant spindles that contain super-precision bearings and permit operation at extremely high speeds. They are powered by in-house-designed induction motors to provide superior performance for efficient machining.

Press release

Ultimate performance

Uncompromisingly in design, the performance of the Landis-Bryant UL2 is second to none. The machine's precision meets tightest statistical demands of today's manufacturing industry such as highest quality bearing manufacturers and automotive engine component makers.

A first success for Fives' new product line: "We were able to secure a multi machine order from a leading manufacturer of high precision engine components following the acquisition in 2015." says an enthusiastic Ron Wood, Executive Director Business Development at Fives Landis Corp. "All machines have successfully completed the run-off at our Hagerstown (MD) facility and being currently commissioned at the customer's production plant."

For additional information on Fives' grinding offers, see: grinding.fivesgroup.com

About Fives in Grinding | Ultra Precision

The Group and its Grinding | Ultra precision dedicated teams - around 650 people in Italy, Germany, 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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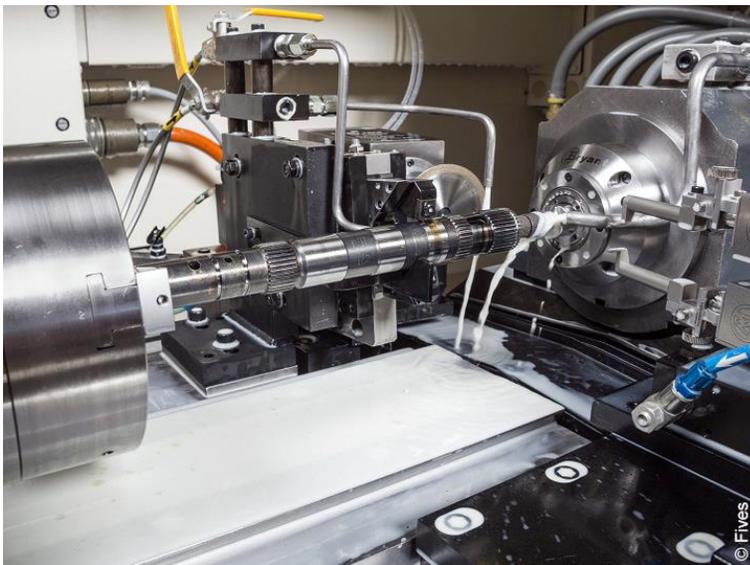
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Landis-Bryant UL2



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Shaft application on Landis-Bryant UL2