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FOR IMMEDIATE RELEASE

NEW FROM CHEVALIER

Introducing the affordable Chevalier FMG-B1224, a traveling-column, high-efficient profile grinding machine

Chevalier has introduced the FMG Series of precision profile grinding machines with a traveling column design.

SANTA FE SPRINGS, Calif., Jan. 8, 2020—Chevalier an innovator in the CNC machine tool industry, has introduced the Chevalier FMG-B1224 high-efficient profile grinding machine with a traveling column design previously available only on premium-priced grinders.

Our R&D team used precision analysis to design a traveling column to effectively improve the working rigidity and machine stability. It delivers high grinding efficiency and stable machining accuracy, with a positioning accuracy of 0.004mm to 0.006mm (0.00015” to 0.00023”).

By combining the traveling column’s rigidity with the machine’s SMART iControl, the FMG-B1224 high-precision grinding machine delivers flexibility no other machine can currently match. It is capable of producing micro finishes of 5 RMS or better on highly accurate workpieces.

Spindle

The traveling column is built with a low center of gravity in one massive piece, with a rigid machine base that fully supports table travel. All castings have undergone FEM analysis for optimal mechanic design with less weight. The ergonomic machine structure provides unexpected grinding efficiency, which also makes the FMG-B1224 machine suitable for heavy-duty grinding loads.

The X/Y/Z axis is driven by an AC servo motor and positioned with a high-precision ball screw to maximize table speed and position control. The spindle is supported by six super-precision angular contact bearings (four pieces in front, two in back), with fully sealed lubrication for long life and high precision.

SMART iControl

The all-new SMART iControl, with a standard 15” high-color touch screen, provides powerful computing power to enhance the HMI (Human Machine Interface) for maximum precision. Combined with network connectivity for data analysis, the control helps managers improve the production process for increased efficiency and output.

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The proprietary PC-based SMART iControl's conversational programming makes learning and operating the FMG-B1224 traveling column grinding machine simple; no engineering degree is required. A TaskLink function permits users to create their own grinding programs to achieve complex grinding tasks with only one combined cycle.

High computing capabilities reach 2,000 single blocks per second, with high-speed and accuracy functions that effectively improve machining prcision and flatness.

- A single axis group can be linked up to four axes.
- Up to 6 CNC axes can be controlled for operations requiring multi-axis machining or for operations requiring 4/5 axes for complex forming processing.

Future automation needs are met with an external communication IO module, which adds extra IO points and connects other automation equipment (optional).

The SMART iControl's conversational programming eliminates complicated programming codes.

Perfect HMI control

The three-dimensional graphic image display minimizes text descriptions, making the images look very similar to the actual workpieces.

Constant-contact dress mode

A normal dressing mode wastes time cutting in the air. The SMART iControl dressing mode keeps the diamond in constant contact with the wheel, minimizing dress time.

Full enclosure cover design

This provides more protection for preventing cutting coolant splash and oil mist dissipation. It also fully protects the operator to avoid grinding dangers.

For more information, contact Johnson Lan at (562) 903-1929, email us at info@chevalierusa.com or visit our web site, www.chevalierusa.com.