



CHUN ZU
MACHINERY INDUSTRY CO., LTD.
春日機械工業

ISO 9001



Combining Speed and Precision: **CHUN ZU** Unveils a New Generation of Smart Screw Forming Machine

Chun Zu Machinery Industry, the leading brand of screw forming machines under the Taiwan Steel Group (TSG), has been marketing its products globally for 52 years. This year, the **CBF-84S Bolt Former**, which made its debut at trade shows in Germany and Kaohsiung, has once again attracted significant market attention. This is not merely a model designed for faster production speed; it is also the first next-generation smart screw forming machine developed by Chun Zu to address the rapidly evolving precision requirements of the mid-to-high-end market.

“Plug-and-Play” Modular Quick-Release Design for Easier Maintenance and Repair

The CBF-84S Bolt Former, which symbolizes Chun Zu’s official entry into the development of high-end, advanced models, features four key characteristics:

1. By integrating the space-consuming staircases, conveyor belts, and motor enclosures found in traditional models, the machine **can be shipped in a standard container** without extra packaging. Upon arrival, customers simply need to plug it in and fill the lubricant tank to start operation, eliminating the need for engineers to travel specifically for installation. 2. **The area needed to accommodate the machine has been reduced by 15%**, effectively improving the utilization of floor space in the customer’s factory. 3. **The unit featuring a quick-release design** allows for the direct replacement of faulty components and a rapid resumption of production (future plans include a modular design that combines a human-machine interface to identify issues, enabling production to continue simply by replacing the IC board). 4. To meet the demands of high-end markets in Europe, the U.S., and Japan, the machine **incorporates a sound-insulated enclosure design that complies with the EU’s highest standards, along with an air barrier to block oil fume emissions**, demonstrating its commitment to environmental, social, and governance (ESG) goals.

In addition to these four standard features, it also **offers customers the option to select an energy-saving design**. Through an energy recovery mechanism, it is estimated to help customers save at least 30% on electricity consumption. Furthermore, to address issues such as labor shortages and high labor costs in Europe and the U.S., it can **incorporate a smart all-servo control mode** that intelligently adjusts production lines during off-peak and peak periods to achieve optimal operational efficiency. **The intuitive, one-click operation** automatically displays recommended adjustments and parameters, eliminating the need for calibration by experienced technicians; even novices can operate the system directly after a brief training session.



Seizing Business Opportunities in the Mid-to-High-End Fastener Market: “3 New Machines, 2 Solutions” to Be Unveiled as Early as Year-End

Chun Zu’s high-speed machines can reach a production rate of 240 pcs/min., and the company continues to optimize their internal mechanisms with the goal of increasing the output to 300–400 pcs/min. while keeping costs within a range acceptable to customers. As early as this November, the company plans to launch 3 more new models.

Vice President Rice Chu believes that high-precision fields such as fasteners for humanoid robots represent new markets with tremendous development potential. Chun Zu identified this business opportunity two years ago and will spare no effort to capture the market share. Chun Zu’s competitive edge lies in its ability to help customers integrate smart equipment into their production processes, adopt more cost-effective “on-floor control” computing, assist with retrofitting legacy machines (including reducing power consumption and improving oil circulation efficiency in preparation for the AI era), and leverage the benefits of external integration with MES and ERP systems to maximize customers’ equipment utilization rates (with an expected 75% reduction in labor requirements).

“In the future, Chun Zu will not only strengthen its presence in high-end markets in Europe, the U.S., and Japan, but will also provide equipment to customers in labor-intensive manufacturing sectors who require models that offer high speed and cost competitiveness. In an era that emphasizes smart automation, we are committed to providing our customers with better solutions,” said Vice President Chu.

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Crafting Precision Equipment to Provide Customers with the Best Possible Machinery Experience

In response to the market trend of “speed and precision,” Chun Zu’s team continues to focus on developing models with strong market demand. By incorporating more intelligent designs, the company aims to help existing customers optimize and upgrade their production lines, and by launching new models, it hopes to assist customers in refining their products to perfection. Chun Zu aspires to be more than just an equipment supplier; it aims to be the premier solution provider that helps customers optimize quality, cost, and speed. “We’ve **even integrated more precise inspection systems into our equipment—using lenses with the same specifications as those from the renowned manufacturer Keyence to achieve a rotational detection accuracy of 0.01 degrees—to help customers ensure product quality,**” said Vice President Chu.

Vice President Chu emphasized: “Chun Zu has indeed accumulated a wealth of experience and expertise over its 52-year history, but with the advent of the AI era and the accelerating pace of market change, if we don’t keep up with the pace, we will be left behind by the trend toward intelligent transformation. We are working hard to overcome this challenge. Thinking from the customer’s perspective and continuing to provide them with the best solutions is the cornerstone of Chun Zu’s development for the next 50 years. We have many loyal, long-standing customers who have been using our equipment for over 40 years. In addition to continuing to serve and support them, we aspire to be like an elephant—helping to steadily guide these customers as they cross the threshold of digital transformation. We know that R&D is always the core lifeblood of a company. In the future, we will continue to strengthen our capabilities in developing new machines, actively address supply chain challenges, and grow alongside our customers.” ■

CBF-84S Bolt Former • Smart Screw Forming Machine

