

Hannover Messe Exclusive: Why CHMAC Emerged as a Must-Visit CNC Press Brake Manufacturer

HAIAN, CHINA, June 29, 2026

/EINPresswire.com/ -- Validation on the Global Stage: The Hannover Messe Experience

Amid the rapid transformation of the global sheet metal fabrication sector, international trade fairs serve as critical barometers for technological leadership and manufacturing excellence. At the recent event, industry participants focused heavily on solutions capable of addressing the challenges of automation, precision, and environmental sustainability. For global buyers seeking high-end fabrication equipment, [CHMAC](#) emerged as a critical destination, solidifying its reputation as a [Must-Visit CNC Press Brake Manufacturer](#). By showcasing integrated fabrication workflows—spanning advanced cutting, automated grooving, and precise bending—the enterprise demonstrated its comprehensive capability to deliver the next generation of industrial solutions.

The authority of Hannover Messe as the world's premier industrial technology showcase provides the ultimate testing ground for manufacturing innovations. For a specialized machinery provider, participating in this event offers direct exposure to highly discerning international engineers, factory owners, and procurement executives who evaluate machinery under rigorous criteria. Throughout the exhibition, the presentation of advanced sheet metal machinery attracted substantial attention from European and global delegations, validating the market's shift toward high-efficiency and intelligent automation.

Observing live demonstrations at the pavilion, an automation engineer from a German



automotive components manufacturer noted that the structural stability and multi-axis synchronicity displayed by the machinery rivaled established regional brands, offering an exceptional balance of technological depth and operational value. This sentiment was echoed by a manufacturer of commercial kitchen equipment from Italy, who emphasized that the integration of intuitive touch navigation systems with robust mechanical frames significantly simplifies the recruitment and training challenges currently facing Western European factories. The real-time feedback received at Hannover Messe highlighted a growing international confidence in high-end machinery developed under comprehensive quality standards. Buyers from precision sheet metal workshops noted that the seamless integration between primary cutting systems and secondary forming equipment is a critical factor in reducing downstream assembly defects. By securing the authoritative EU CE certification and ISO9001 quality management system certification, the manufacturer provided international clients with the necessary compliance assurances, transforming casual exhibition inquiries into long-term strategic discussions. The presence at Hannover Messe not only acted as an endorsement of technical capability but also proved that flexible processing capacity and superior service can successfully establish a premium brand identity in highly competitive global markets.

The Evolution of the Sheet Metal Industry and Global Demands

The global sheet metal fabrication industry is undergoing a structural transition driven by the principles of Industry 4.0 and the imperative for green manufacturing. Across diverse sectors such as precision electronics, automotive components, communication enclosures, smart home appliances, and commercial kitchenware, traditional manufacturing methods no longer satisfy modern production requirements. Today, modern industrial operations face persistent challenges, including rising labor costs, stricter material utilization mandates, and the demand for rapid, low-volume, high-mix production cycles.

To remain competitive, processing enterprises are increasingly moving away from standalone, manually operated machinery toward highly integrated, flexible automatic production lines. These modern systems require high compatibility, digital synchronization, and intelligent control mechanisms to minimize human error and material waste. Concurrently, environmental regulations across Europe and North America have placed energy efficiency at the forefront of procurement decisions. Equipment manufacturers are now evaluated not only on raw mechanical power but also on their ability to minimize carbon footprints through technologies like hybrid drive systems, eco-modes, and optimized material processing software.

This macroeconomic environment has altered the criteria by which global industrial buyers evaluate technology partners. Procurement teams are no longer merely purchasing hardware; they are seeking strategic partners capable of providing key technical support and personalized sheet metal solutions for the future factory. Consequently, manufacturers that combine in-house research and development with strict adherence to international quality management structures are capturing significant global market share, establishing new benchmarks for the industry at large.

Core Advantages and Technological Innovation in Forming Technology

At the center of this market recognition is the comprehensive high-tech enterprise, Jiangsu ChuangHeng Machinery Technology Co., LTD., which has dedicated its operations to the

research, development, production, and sales of high-end sheet metal equipment. Adhering to a corporate philosophy centered on efficiency, intelligence, environmental protection, and system compatibility, the enterprise has developed a sophisticated product portfolio. This includes fiber laser cutting machines, tube laser cutting machines, CNC V-grooving machines, precision leveling machinery, non-standard automatic units, and fully flexible automatic production lines designed to meet the operational demands of Industry 4.0.

A prime example of the company's technological innovation is reflected in its PBS Series CNC Press Brake, a high-performance forming solution engineered to deliver flawless bendings across complex industrial applications through several distinct engineering achievements:

□Advanced Structural Resilience (FEA/CAE Verification):

The structural integrity of the PBS Series is achieved through comprehensive Finite Element Analysis (FEA) and CAE SolidWorks stress testing. This rigorous engineering process analyzes linear static construction, stress distribution, and potential deformation under heavy load conditions, ensuring that the machine frame and upper beam maintain optimum resistance and minimum stretch during high-tonnage operations.

□Precision CNC Synchronization and Controls:

The operational precision of the machinery is governed by the advanced Delem DA-53T CNC Control Unit, featuring a 10.1-inch high-resolution color TFT display and intuitive "Hot-key" touch navigation. This system controls up to four axes (Y1, Y2, and two auxiliary axes) utilizing advanced closed-loop and open-loop valve algorithms to guide the ram with exceptional repeatability.

□High-Velocity Mechanical Kinematics:

The backgauge system features high-precision ball screws and linear guides, achieving mechanical accuracies of plus or minus 0.01 mm and a servo-motorized X-axis speed of up to 600 mm/s. To guarantee a uniform bending angle along the entire length of the workpiece, the press brake integrates an automatic motorized crowning compensation system built directly into a specialized narrow European-type bottom table, eliminating the angular deviations caused by natural structural deflection.

□Eco-Friendly and Safe Automated Configurations:

Understanding the modern factory's need for both safety and sustainability, the machinery incorporates several high-end optional configurations. The Hybrid Servo ECO Function offers an environmentally friendly drive system that precisely regulates oil and energy consumption based on real-time operational demands, yielding substantial energy savings compared to conventional hydraulic configurations. For operational safety, the integration of the Italy DSP Laser Protection system provides multi-beam laser coverage across the front, center, and rear protective zones, meeting the stringent CAT.4 and SIL3 safety classifications with a rapid 5 ms response time. Furthermore, for enterprises embracing complete factory automation, the system can be seamlessly integrated with sheet followers for long, thin materials or robotic arms, transforming standalone bending operations into highly productive, autonomous manufacturing cells.

Through the strategic combination of structural resilience, digital precision, and a commitment to delicacy management, CHMAC has demonstrated that it is fully equipped to help modern

enterprises implement intelligent manufacturing in place. By continuously creating tangible value for global customers through flexible processing capacities and dedicated engineering support, the company is actively redefining the relationship between intelligent manufacturing, industrial work, and modern life.

Corporate Website: <https://www.chjxkj.cn/>

JIANGSU CHUANGHENG MACHINERY TECHNOLOGY CO.,LTD

JIANGSU CHUANGHENG MACHINERY TECHNOLOGY CO.,LTD

[email us here](#)

This press release can be viewed online at: <https://www.einpresswire.com/article/922973535>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2026 Newsmatics Inc. All Right Reserved.