

Ningbo Xinfeng Machinery Industry Self-drilling Screw with Speed Upgrade, Penetrating Ultra-hard Steel Plates



Xinfeng started with expansion screws and developed into a manufacturing and trading company which includes all kinds of screws, with a focus on hex flange head self-drilling screws strictly complied with AS3566.2 Standard. It was founded in 1995 when the Chinese market was in full swing for infrastructure construction. The founder found in his market research that hex washer head self-drilling screws can be widely used in factory construction, so he purchased his first manual punching machine in 1999 to start manufacturing self-drilling screws, and then his first high-speed self-drilling screw forming machine in 2006. He built a 10,000 m² factory in 2015, and in 2018 and 2019 respectively purchased his first and second carburizing quenching furnaces to take his annual output above 20,000 tons. At present, his factory is equipped with 100 machines including those for cold heading, self-drilling screw forming, thread rolling, shank slotting, etc., with a monthly capacity of over 600 tons of various screws. The company is now able to provide self-drilling screws with hex washer head, modified truss head, countersunk head and pan head, as well as heavy-duty chipboard screws with round washer head and countersunk head. These products are available in materials such as 1022A-10B21-304-410, and in various colors.

The company also has a laboratory where condensation test chambers (coating bonding), environmental test chambers (environmental simulation), and salt spray test chambers (corrosion simulation) were purchased to quickly simulate environmental changes in real-world applications. Product process monitoring equipment includes tensile testers, hardness testers, microscopes and projectors. Quality control can be carried out according to drawings, and customized production is also available for customers.

Satisfying customer's actual demand is the first priority in Xinfeng's production and operation. Especially with hex washer head screws with EPDM bonded washers, Xinfeng keeps improving production process and attaches great importance to customer's requirements on tapping speed. From formerly penetrating within 11 seconds to now within 4 seconds, continuous pursuit of quality and speed yields a good result. In addition, Xinfeng continuously develops new fasteners by adjusting materials, self-drilling screw forming and heat treatment technique. Months later, the company successfully developed a new self-drilling screw for customers which can penetrate through ultra-hard high-strength steel plates.

Xinfeng exports heavy duty truss head and countersunk head wood construction screws to Europe, and hex washer head screws with EPDM bonded washers to Mexico. Particularly, Xinfeng's Aluminum-Zinc Coated screws production and sales to Southeast Asia hit a record high. General Manager Xufeng Feng said that the company's aim is to manufacture screws that save efforts for customers, "In the future, we will actively innovate and update our carburizing quenching furnace. At present, we mainly want to develop the Southeast Asian market for our Aluminum-Zinc Coated screws, and we are striving to increase our production and sales capacity by 30% from the base year 2023!"

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