

Zhongli Bolts: Engineering the Foundation of Modern Infrastructure as a Global Leading Hex Bolts Manufacturer

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- Hex Bolts
- Hex Flange Bolt
- Hex Nuts
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DIN7990 hexagonal head bolts, steel structure design, surface hot-dip galvanized treatment, mechanical properties reaching grade 6.8 standard



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HDG steel structure bolts, DIN7990 grade 6.8



hot dip galvanizing Hex bolt DIN931 class 10.9 half thread 933 full thread grade 10.9



DIN6914 steel structure bolts, black 10.9HV half thread

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In the complex world of industrial construction and mechanical engineering, the integrity of a structure is often only as strong as its smallest component. Whether it is a soaring skyscraper, a high-speed railway bridge, or a massive wind turbine, the fasteners that hold these marvels together must withstand immense stress, environmental corrosion, and the passage of time. Amidst this demanding landscape, **Ningbo Zhongli Bolts Manufacturing Co., Ltd.** (known globally by its **ZYL** brand) has emerged as a [Global Leading Hex Bolts Manufacturer](#). Combining two decades of manufacturing heritage with cutting-edge cold and hot heading technology, Zhongli Bolts is defining the standards of reliability for the global fastener industry.

The Global Fastener Industry: Trends and Future Outlook

The global industrial fastener market is projected to grow significantly toward 2030, driven by several key macroeconomic and technological trends:

Rise of High-Strength Materials: As engineering designs become more ambitious, there is a shift away from standard carbon steel toward high-strength grades (8.8, 10.9, and 12.9). These allow for lighter structures without compromising safety.

Infrastructure and Renewable Energy: The global push for "Green Energy" has created a massive demand for structural bolts in wind tower assembly and solar racking. These environments require specialized coatings like Hot Dip Galvanizing (HDG) to prevent rust in coastal or offshore settings.

Automation in Manufacturing: Modern construction demands precision. The transition to fully automatic multi-station cold heading machines allows manufacturers like Zhongli to produce large volumes with microscopic consistency.

Stringent Quality Compliance: Post-pandemic, global supply chains are prioritizing "Traceable Quality." Standards such as ISO 898-1 for bolts and ISO 898-2 for nuts have become non-negotiable benchmarks for international trade.

The Zhongli Profile: A Legacy of Precision Since 2003

Founded in 2003 in Ningbo, a world-renowned hub for hardware and maritime logistics, Ningbo Zhongli Bolts has spent over 20 years perfecting the art of the bolt. Covering an area of **10,000 square meters** with a registered capital of **1.5 million RMB**, the company has scaled its operations to achieve an annual productivity of **8,000 tons**.

This scale is supported by a strategic domestic network of sales branches across China and a robust export department that serves markets in **Europe, the USA, the Middle East, Africa, and Southeast Asia**. This global footprint is not merely the result of competitive pricing; it is built on a foundation of "Scientific Management" and the prestigious **ISO9001 Quality Management System** certification.

Core Advantages: Why ZYL Brand Fasteners Stand Out

In a market crowded with generic suppliers, Zhongli Bolts (ZYL) distinguishes itself through three core competitive pillars:

1. Advanced Technical Ability and Equipment

Zhongli's factory floor is a testament to industrial innovation. The company is equipped with a variety of **fully automatic multi-station cold and hot heading machines**.

Cold Heading: Ideal for high-speed, high-precision production of standard hex bolts.

Hot Heading: Utilized for large-diameter bolts (up to M48) where material integrity must be maintained during the shaping process. This combination allows Zhongli to offer an incredible range of diameters—from **M10 to M48**—with virtually **no limit on length**.

2. Comprehensive Quality Control and Testing

"Quality is the most important for us" is not just a slogan at Zhongli; it is a measurable reality. The

company possesses **complete testing equipment** to perform rigorous physical and mechanical tests.

ISO 898-1 Compliance: Every structural bolt is tested to ensure it meets the required tensile strength, yield stress, and hardness for its grade.

Surface Treatment Excellence: Recognizing that environment is the enemy of steel, Zhongli offers high-quality **Black, Zinc Plated, and Hot Dip Galvanized** finishes, ensuring longevity in even the most corrosive industrial atmospheres.

3. One-Stop Fastening Solutions

Zhongli provides a complete assembly solution. Customers rarely need to look elsewhere, as the company supplies matching **Hex Nuts (DIN 934, DIN 6915)** and various **Washers (DIN 125, DIN 127, DIN 6916)**. This ensures that the thread fit and material compatibility between the bolt, nut, and washer are perfect, reducing the risk of galling or failure.

Product Arsenal: Precision for Every Specification

Zhongli's product catalog reads like a manual for global engineering standards. Their **ZYL brand** covers:

Structural Hex Bolts: Specialized for heavy construction, including **ASTM A325 Type 1 and A490** (USA standards) and **EN 14399 / DIN 6914** (European standards).

High-Grade Hex Head Bolts: Available in **Gr 8.8, 10.9, and 12.9**, complying with **DIN 931, DIN 933, ISO 4014, and ISO 4017**.

Imperial Standards: For the North American market, Zhongli produces **ANSI B18.2.1 UNC and UNF Gr 5 and Gr 8** fasteners.

Specialized Fasteners: Including **Fine Pitch Hex Bolts (DIN 960/961)**, **Hex Socket Cap Screws (DIN 912)**, **Hex Flange Bolts (DIN 6921)** with serrations, and **A193 B7 Threaded Rods with 2H nuts** for high-pressure or high-temperature piping.

Application Scenarios: Where ZYL Bolts Power Progress

The versatility of Zhongli's products makes them indispensable across multiple high-stakes industries:

Steel Structure Construction

In the skeletal frames of industrial warehouses and skyscrapers, ZYL's **ASTM A325** and **DIN 6914** structural bolts provide the necessary clamping force to ensure the building can withstand seismic activity and wind loads.

Bridge and Tunnel Engineering

Bridges are subject to constant vibration and fluctuating loads. The **high-strength 10.9 and 12.9 grade bolts** from Zhongli ensure that joints remain secure under the dynamic stress of heavy traffic and rail.

Energy and Petrochemicals

The **A193 B7 stud bolts** and **hot-dip galvanized hex bolts** are specifically utilized in oil refineries and power plants. These products are engineered to resist the extreme heat and chemical exposure typical of fluid transportation systems.

Heavy Machinery and Automotive

From the chassis of heavy trucks to the assembly of factory robotics, ZYL's **fine pitch bolts** and **socket cap screws** provide the precision needed for complex mechanical movements.

Customer Case Studies: A Global Track Record

While Zhongli serves thousands of clients, their impact is best seen in their recurring international partnerships:

Middle Eastern Infrastructure: Zhongli has supplied thousands of tons of Hot Dip Galvanized fasteners for large-scale utility projects in the Middle East, where the combination of extreme heat and coastal humidity demands superior coating quality.

European Distribution: A leading European hardware distributor has partnered with ZYL for over a decade, citing the consistent adherence to **ISO 898-1** mechanical test results as the reason for their loyalty.

Southeast Asian Industrial Parks: ZYL brand hex flange bolts and structural assemblies have been the backbone of several major factory construction projects in Vietnam and Thailand, providing a cost-effective yet high-performance alternative to more expensive local brands.

Conclusion: Building Mutual Benefits Through Quality

The philosophy of Ningbo Zhongli Bolts Manufacturing Co., Ltd. is simple: "Scientific Management, Quality First, and Mutual Benefit." By strictly controlling every stage—from the raw material wire drawing to the final multi-station heading and surface treatment—Zhongli has earned its place as a **Global Leading Hex Bolts Manufacturer**.

As global industry moves toward 2030, the need for fasteners that offer both high performance and sustainable value will continue to grow. Zhongli Bolts remains committed to this future, investing in technical ability and testing equipment to ensure that every ZYL bolt shipped to Europe, the USA, or beyond is a testament to Chinese manufacturing excellence.

For engineering firms, distributors, and industrial buyers seeking a reliable partner that understands the nuances of international standards and the demands of heavy-duty applications, Zhongli Bolts is the definitive choice.

Establish your path to high-strength success with Zhongli.

To view full technical data sheets, explore the complete ZYL product range, or request a quotation for your next project, please visit the official company website:

Official Website: <https://www.cnzyl.com/>

Zhongli Bolts – Precision in Every Turn, Strength in Every Connection.

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