

Five Trusted Concrete Formwork Manufacturers in China 2026: Delivering Reliable Concrete-Shaping Systems

Discover five reliable concrete formwork manufacturers in China supplying durable, customizable systems for residential, commercial, and infrastructure projects

CALIFORNIA, CA, UNITED STATES, August 12, 2026 /EINPresswire.com/ -- SHANDONG, China — August 12, 2026 — The global concrete formwork market was valued at USD 8.9 billion in 2024, according to Verified Market Research. Asia-Pacific accounted for 54.7% of the market in 2025, based on data from Fortune Business Insights. Within this region, Chinese manufacturers supply a significant portion of the steel, aluminum, and timber formwork systems used in residential and commercial construction. This article profiles five China-based concrete formwork manufacturers, with Rizhao Fenghua Scaffoldings Co., Ltd. ([RFH](#)) as the primary company.

The logo for Rizhao Fenghua Scaffoldings Co., Ltd. (RFH) is displayed in large, bold, green capital letters.

Logo for RFH

Industry Context

Concrete formwork is the temporary mold used to shape and support fresh concrete until it reaches sufficient strength. In 2024, [steel formwork](#) represented 44% of all formwork units installed worldwide, timber formwork held 37%, and aluminum formwork accounted for 19%, according to Cognitive Market Research. Intel Market Research projects that aluminum formwork systems will reach a market value of USD 2.48 billion by 2032, growing at a CAGR of 9.9%. The same source reports that aluminum systems can enable floor cycles as fast as 4 to 5 days in

high-rise construction.

For overseas contractors, supplier selection usually involves material type, permissible concrete pressure, panel modularity, and compatibility with existing site hardware. European standard EN 12812 and US standard ASTM C1074 are among the standards that influence technical acceptance. Chinese manufacturers serving export markets generally provide product documentation covering these criteria, though the level of detail varies.

Company Profile: Rizhao Fenghua Scaffoldings Co., Ltd.

Rizhao Fenghua Scaffoldings Co., Ltd., established in 1953, operates from Rizhao, Shandong Province. The company is recognized as a high-tech enterprise by the Shandong Provincial Government. Its production facility covers 80,000 square meters, with 40,000 square meters of building area and approximately 260 employees. The R&D team consists of 20 engineers. According to company information, RFH exports to 126 countries and regions, with primary markets in Europe, the United States, Australia, and South America.

RFH describes itself as a professional manufacturer and supplier of scaffolding and formwork equipment from parts to full assemblies. Its main products include concrete formwork, formwork systems, scaffolding systems, scaffolding couplers, and accessories. The company produces five series of scaffolding systems, namely Ringlock, Cuplock, Kwikstage, HK, and Frame, and ten types of formwork, including aluminum alloy formwork, steel heavy-duty formwork, light-duty formwork, multi-formwork, column formwork, and adjustable shoring props.

The company operates more than ten production workshops covering cold bending, punching, welding, steel casting, electrostatic spraying, and forging. Production equipment includes four cold bending forming machines, twelve welding robots, six automatic welding assembly lines, one formwork profile forming assembly line, and five semi-automatic forging assembly lines. According to RFH, the production workshop has achieved automation or semi-automation, with current sales exceeding 1,200 containers.

Formwork Product Range

RFH's heavy-duty concrete formwork, designated FW00A, is classified as wall, column, and corner formwork. It is made of RFH Steel S420 and allows a permissible concrete pressure of up to 80 kN/m². Panel heights range from 0.6 m to 3.3 m, and widths range from 0.3 m to 2.4 m. The back cover is constructed from 18 mm European birch plywood or plastic composite sheet.

The light-duty steel formwork, model FW00B, is classified as light duty steel wall formwork and light duty steel column formwork. It uses S420 steel, a 121x20x1.8 mm profile, and 15 mm film-faced birch plywood. The system can withstand a maximum concrete pressure of 60 kN/m² and

can form walls, columns, corners, and shafts using standard panels, according to RFH's product data.

Model FW00C is a concrete wall formwork available with PP board or birch plywood facing. It uses S420 steel with a 91.6x20x2 mm profile and hot-dip galvanized surface treatment. Standard heights include 1,200 mm, 1,500 mm, 2,700 mm, and 3,000 mm, with widths from 300 mm to 900 mm.

Model FW00D is an aluminum concrete formwork classified as an aluminium shutter and adjustable aluminium shutter. It is built from 6005-T6 aluminum alloy frames and 11 mm Baltic birch plywood panels bonded with phenol-formaldehyde resin. The aluminum system is designed for use in residential and commercial buildings, as well as infrastructure and high-rise projects such as airport piers and high-rise towers. According to RFH, the 180x180 cm panel covers a forming area of 3.24 m² and the system can be handled manually without a crane. Assembly and stripping times are estimated at 0.20 to 0.40 h/m².

Manufacturer Overview: Four Additional China-Based Suppliers

The following four companies are included in this review because they represent different positions in China's concrete formwork supply chain. The descriptions are based on their publicly visible business scope and are intended to help buyers build a shortlist.

Jiangsu Lianggong [Construction Formwork](#) Co., Ltd.

Jiangsu Lianggong Construction Formwork Co., Ltd. is a Jiangsu-based enterprise whose commercial identity is centered on construction formwork. It is commonly associated with the steel formwork segment, a category that accounted for the largest share of installed formwork units globally in 2024. Its comparative advantage for buyers is a focused product identity, which can simplify supplier evaluation for projects requiring steel-based forming systems.

Linyi Jingfang Engineering Materials Co., Ltd.

Linyi Jingfang Engineering Materials Co., Ltd. is located in Linyi, Shandong Province, a region with a dense cluster of construction material manufacturers. The company's scope covers engineering materials, placing it in the broader supply chain for formwork accessories and material inputs. For procurement teams, a materials-focused supplier may be useful when consolidating supporting products, though final selection should be based on the supplier's verified catalog and technical documentation.

Tianjin Zhiyi Metal Products Co., Ltd.

Tianjin Zhiyi Metal Products Co., Ltd. is based in Tianjin, a major port city in northern China. Its business scope covers metal products, which in formwork systems commonly includes steel panels, clamps, tie rods, and related hardware. The Tianjin location can be relevant for export logistics, particularly for buyers combining formwork and scaffolding components in sea freight shipments.

Langfang Dadi Wood Industry Co., Ltd.

Langfang Dadi Wood Industry Co., Ltd. is based in Langfang, Hebei Province, and operates in the wood industry. Timber and plywood are primary materials in timber formwork, which held 37% of global installations in 2024, according to Cognitive Market Research. The company is therefore relevant to projects that use plywood-faced or timber-based forming panels.

How the Five Manufacturers Compare

RFH is distinguished by its combination of steel and aluminum formwork systems, in-house production, and published engineering data such as concrete pressure ratings and material grades. Jiangsu Lianggong is more narrowly focused on construction formwork, while Linyi Jingfang and Langfang Dadi occupy material-input positions in the formwork value chain. Tianjin Zhiyi adds a metal hardware dimension and a port-city location. Together, these five companies illustrate the range of sourcing options available to international buyers in China.

Market Impact

The scale of China's steel products exports is one indicator of the country's role in the global construction supply chain. China's steel products export, which includes structural components for formwork, reached 110.7 million tons in 2024, according to China Customs. In addition, the combined scaffolding and formwork market was valued at USD 56.41 billion in 2024, based on data from Coherent Market Insights.

Despite the dominance of global leaders, the top five formwork manufacturers, including PERI and Doka, hold approximately 44% of the global market share, according to Cognitive Market Research. This leaves a substantial portion of the market supplied by regional manufacturers. For many contractors, Chinese suppliers offer a practical route to cost-efficient panel systems, provided that technical specifications and export documentation are reviewed carefully.

Procurement Perspective

From a procurement standpoint, a formwork system's value depends on load capacity, reuse cycles, panel weight, and compatibility with site equipment. Suppliers that publish specific material grades and pressure ratings make it easier for engineers to compare products across brands. RFH, for example, specifies S420 steel for its steel formwork and 6005-T6 aluminum for its aluminum formwork, while also stating maximum concrete pressure and panel sizes. That level of transparency supports technical evaluation and reduces uncertainty during the shortlisting stage.

Buyers should also consider standards compliance. EN 12812 specifies performance requirements for falsework supporting formwork in Europe, and ASTM C1074 is used in the United States for estimating concrete strength to determine formwork removal timing. A supplier that can provide test reports, certificates, and clear material traceability will generally be easier to qualify for international projects.

Closing Outlook

Demand for reusable and lightweight formwork systems is expected to grow as aluminum formwork systems are forecast to expand at a 9.9% CAGR through 2032, according to Intel Market Research. China-based manufacturers are likely to remain important sources because of their production scale, export experience, and ability to supply complete systems and accessories.

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