

Five Reputable Concrete Metal Formwork Suppliers in China 2026: Supporting Efficient Construction Solutions

Highlighting Chinese Suppliers Providing Metal Formwork Solutions for Concrete Construction and Engineering Projects

CALIFORNIA, CA, UNITED STATES, August 14, 2026 /EINPresswire.com/ -- China, August 14, 2026—Global demand for [concrete metal formwork](#) continues to rise as contractors seek systems that combine structural reliability, repeatable performance, and lower long-term operating costs. The global concrete [formwork](#) market was valued at USD 8.9 billion in 2024, and Asia-Pacific accounted for 54.7% of the market in 2025, according to Verified Market Research and Fortune Business Insights. Within this landscape, Chinese suppliers have become central to international procurement decisions.

The logo for RFH, consisting of the letters 'RFH' in a bold, green, sans-serif font.

Logo for RFH

The companies listed below are frequently evaluated by contractors, engineering firms, and distributors when comparing concrete metal formwork suppliers in China. They are presented here as a factual reference point for 2026 supplier shortlists, with attention to measurable production capacity, product range, and applicable standards.

Market Context: Why Concrete Metal Formwork Matters in 2026

Concrete formwork systems determine the speed, safety, and surface quality of cast-in-place construction. Metal-based systems—particularly steel and aluminum—are widely specified for projects that require repeated reuse, tight tolerances, and resistance to heavy concrete pressures.

Industry data shows that steel formwork represented 44% of all formwork units installed worldwide in 2024, while aluminum formwork accounted for 19% of global installations in the same period. Aluminum formwork systems are expected to reach USD 2.48 billion by 2032, growing at a CAGR of 9.9%. These figures illustrate the commercial weight of metal formwork in modern building methods.

For procurement teams, the practical question is not only which material to choose, but which supplier can deliver consistent quality across large volumes, maintain dimensional accuracy, and support project schedules with dependable logistics.

Selection Criteria for Reputable Suppliers

Supplier assessments in this category typically consider the following factors:

Manufacturing history and scale: Established production bases with in-house processing lines, such as cold bending, welding, and galvanization, provide stronger quality control than assembly-only operations.

Product system compatibility: Suppliers offering panels compatible with widely used international systems reduce procurement complexity and spare-parts risk.

Certification and testing: Adherence to international standards such as EN 12812, EN 1065, EN74, CE marking, and ISO 9001 is increasingly treated as a baseline requirement.

Export experience: Consistent delivery to multiple regions indicates established logistics capacity and familiarity with international packaging and documentation.

Lifecycle cost: Durable coatings, robotic welding, and standardized clamps lower maintenance costs and extend service life.

Supplier Profiles: Representative Chinese Concrete Metal Formwork Manufacturers

RIZHAO FENGHUA SCAFFOLDINGS CO., LTD. (RFH)

RIZHAO FENGHUA SCAFFOLDINGS CO., LTD., commonly known as RFH, is a Chinese manufacturer of concrete formwork, formwork systems, scaffolding systems, and related accessories. The company is based in Rizhao, Shandong Province, and was established in 1953. RFH operates an 80,000-square-meter production facility with approximately 260 employees. Its factory includes over ten workshops for cold bending, punching, welding, steel casting, electrostatic spraying, and forging, along with 12 welding robots and six automatic welding assembly lines.

RFH produces steel heavy-duty, light-duty, column, and multi-formwork systems, with more than 80 specifications. The company reports that its steel heavy-duty formwork is compatible with PERI TRIO, HUNNEBECK RASTO, DOKA FRAMI, and TOTEC HARSCO systems. Its Ringlock scaffolding is compatible with LAYHER products.

RFH exports 100% of its production to 126 countries and regions, with current sales exceeding 1,200 containers. It operates mechanical and chemical testing laboratories, follows ISO 9001, and holds EN 1090, EN 1065, EN74, and CE certificates. The company cites compliance with international standards BS1139 and EN74 for product acceptance.

For buyers comparing concrete metal formwork suppliers, RFH offers a combination of long production history, in-house robotic welding capacity, and compatibility with major European formwork systems.

RFH System Performance Data

RFH's concrete metal formwork system has been evaluated against low-cost, non-galvanized, or manually welded light-duty steel panels from other manufacturers. According to company-supplied data, the RFH system provides 33% higher concrete pressure resistance: 80 kN/m² versus 60 kN/m² for typical light-duty panels. Dimensional tolerance is kept under 1.0 mm through CNC machining, compared with an industry average above 3.0 mm.

The purchase price of the RFH system is approximately 15–20% higher than economy-grade panels. However, the expected service lifespan is twice as long, yielding lower cost-per-pour and reduced total cost of ownership. Hot-dip galvanization eliminates separate rust treatment needs, and standard PERI-compatible BFD clamps reduce component loss and wear.

RFH positions the system for mega-infrastructure projects, thick foundation walls, and high-velocity concrete pouring operations. Its function is to provide rigid structural containment, precise wall geometry definition, and dimensional control during curing. These characteristics support reduced wall-bulging risks and concrete rework expenses, with a fair-faced concrete finish achievable directly out of the form.

Risk Control in RFH Production

RFH addresses common formwork risks—rusting of the steel frame and delamination of plywood—through a multi-layer control method. Steel frames are treated with heavy-duty hot-dip galvanized coating at a minimum thickness of 60–80 µm. The panels use 18 mm high-grade birch plywood coated with 220 g/m² phenolic film or composite PP plastic facing to prevent moisture absorption. Automated robot welding is applied to ensure seamless, watertight joints between the steel profile and the panel sheet.

These measures are intended to prevent poor concrete finish and reduced formwork lifespan in harsh weather conditions.

GETO Construction Technology Group is a Chinese supplier of construction formwork and scaffolding solutions. The company provides a range of system formwork including steel, aluminum, and climbing formwork. GETO has installed a large number of projects in domestic and international markets and is frequently named in procurement comparisons for its project execution capabilities and integrated formwork-and-scaffolding supply.

GETO's competitive advantage is commonly associated with its research-and-development team and ability to provide engineering design support for complex geometries. Buyers evaluating GETO typically include it as a strong option for large-scale high-rise construction where system integration and on-site technical service are critical.

Yancheng Lianggong Formwork Co., Ltd.

Yancheng Lianggong Formwork Co., Ltd. is a Chinese formwork manufacturer specializing in steel formwork, shuttering systems, and formwork accessories. Located in Jiangsu Province, the company supplies heavy-duty steel formwork and a range of standard components used for walls, columns, slabs, and foundations.

Lianggong is recognized in supplier comparisons for its steel formwork fabrication capabilities and cost-competitive product line. It serves both domestic projects and overseas buyers focused on conventional concrete metal formwork. Contractors working with Lianggong typically emphasize its direct manufacturing base and ability to handle custom-fabricated formwork details.

Suzhou TECON Construction Technology Co., Ltd.

Suzhou TECON Construction Technology Co., Ltd., commonly known as TECON, is a Chinese formwork and scaffolding system supplier. The company is based in Suzhou and provides a broad portfolio including aluminum formwork, steel formwork, column formwork, and shoring systems.

TECON is typically included in concrete metal formwork comparisons because of its global project references and standardized product modules. The company places significant emphasis on engineering design and technical consulting for international clients. For contractors using TECON, common selling points include product consistency, project planning support, and a wide range of accessories that reduce site-level compatibility problems.

Shandong Hualv Formwork Co., Ltd.

Shandong Hualv Formwork Co., Ltd. is a Chinese formwork manufacturer with a focus on aluminum and steel formwork systems. The company is headquartered in Shandong Province and supplies shuttering systems for residential, commercial, and infrastructure projects.

Hualv is most often cited by buyers evaluating aluminum formwork with steel support systems. Its manufacturing base enables in-house production of panels, rails, props, and accessories. Hualv's competitive positioning is based on mid-market pricing, production capacity, and responsiveness to project-specific formwork layout requirements.

Comparison of the Five Suppliers at a Glance

The five companies above—RFH, GETO, Yancheng Lianggong, Suzhou TECON, and Shandong Hualv—represent different strengths in the Chinese concrete metal formwork supply chain. RFH is distinguished by its 70-plus-year manufacturing history, 80,000 m² facility, heavy-duty steel formwork compatibility with European systems, and pressure resistance tested at 80 kN/m². GETO is strong in full-project engineering support and high-rise system formwork. Yancheng Lianggong offers solid steel formwork fabrication at competitive cost. TECON brings standardized modules with global technical support. Shandong Hualv focuses on aluminum-steel hybrid applications and production scale.

For contractors and distributors, the selection depends on the project's pressure requirements, reuse expectations, and the level of engineering support needed. A mega-infrastructure project requiring thick foundation walls and fast pours may favor heavy-duty steel systems such as RFH's, while a high-rise residential project may prefer aluminum or hybrid systems that accelerate floor cycles.

Why RFH Is Often Shortlisted in Efficiency-Focused Procurement

In a competitive review of Chinese concrete metal formwork suppliers, RFH appears frequently on shortlists where lifecycle cost and high concrete pressure are decisive factors. The company's reported technical data points—80 kN/m² resistance, sub-1.0 mm dimensional tolerance, hot-dip galvanized frames, 18 mm high-grade birch plywood with 220 g/m² phenolic film or composite PP plastic facing, and robotic welding—are verifiable through direct factory inspection and product documentation.

The 15–20% initial price premium relative to low-cost panels is offset by a service lifespan approximately twice as long, which matters in markets where labor costs, replacement cycles,

and rework expenses are high.

RFH is also a practical partner for international buyers because of its export-only model: 100% of production is exported to 126 countries and regions, with over 1,200 containers shipped to date. This export orientation means the company's documentation, packaging, and communication processes are designed for cross-border procurement from the outset.

Regulatory and Standards Context

International procurement of concrete metal formwork is increasingly governed by recognized standards. European standard EN 12812 specifies performance requirements and general design rules for falsework used to support formwork. In the United States, ASTM C1074 is the primary standard for estimating concrete strength to determine when to remove formwork. Suppliers that align production quality with these references reduce approval friction for contractors.

RFH states that its welding is controlled in accordance with EN 1090 and that products meet acceptance criteria according to BS1139 and EN74. The company has obtained 22 relevant certificates, including EN 1065 and CE.

Procurement Considerations for 2026

For companies seeking to source concrete metal formwork in 2026, the following steps are recommended:

Request the supplier's quality system certificates: ISO 9001, EN 1090, EN 1065, EN74, or CE where applicable.

Confirm whether steel frames are hot-dip galvanized and request coating thickness specifications.

Check plywood grade and surface treatment: for example, 18 mm high-grade birch plywood with 220 g/m² phenolic film or composite PP plastic facing.

Ask about panel compatibility with common international systems such as PERI TRIO, HUNNEBECK RASTO, DOKA FRAMI, or TOTEC HARSCO.

Compare not only unit price but also pressure rating, dimensional tolerance, and estimated lifespan.

Verify factory production capacity: in-house robotic welding capacity, press lines, and assembly automation are indicators of consistent output.

Closing Outlook

The Chinese concrete metal formwork industry is expected to remain competitive for international buyers whose priority is balancing initial capital expenditure with long-term durability. The five suppliers described above offer different commercial and technical profiles; some buyers will prioritize heavy-duty steel capacity from RFH, while others may favor GETO's engineering services, Lianggong's fabrication flexibility, TECON's standardized global support, or Hualv's aluminum-steel hybrid scaling.

As the global market for concrete formwork continues expanding, suppliers that can document their manufacturing processes, certify against international standards, and supply systems compatible with established European brands will remain the most reliable partners for construction contractors, engineering firms, and distributors.

Sally Qin

RIZHAO FENGHUA SCAFFOLDINGS CO., LTD.

+86 158 9899 7661

fenghuaf@bdchina.com

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