

## Why Major Ports Increasingly Trust China-Built Ship-to-Shore Marine Loading Arms



**Lianyungang, Jiangsu Mar 3, 2026 ([IssueWire.com](https://www.issuewire.com))** - As global maritime logistics becomes more demanding and safety regulations tighten, port operators are re-evaluating the reliability and performance of their fluid transfer infrastructure. In this evolving landscape, the [Ship-to-shore marine loading arm supplied from China](#) has gained significant international recognition for combining cost efficiency with robust engineering. Lianyungang Hechang Machinery Co., Ltd., founded in 2009, has emerged as a trusted partner for ports, refineries, and energy terminals seeking advanced loading, unloading, and storage & transportation system solutions across the oil, chemical, gas, and energy sectors.

With full life-cycle service capabilities—from technical consulting and engineering design to equipment manufacturing, inspection and testing, on-site installation guidance, and after-sales maintenance—Hechang supports more than 2,000 clients worldwide and has successfully delivered

over 6,000 projects. Its marine loading arms and integrated terminal equipment are increasingly deployed in modern port infrastructure upgrades.

## **Global Ports Are Raising the Bar for Liquid Handling Equipment**

Today's major ports operate under intense pressure to improve throughput, safety, and environmental compliance simultaneously. Several structural trends are accelerating the adoption of high-performance marine loading arms:

- Growth in global crude oil and LNG trade
- Expansion of mega-vessel fleets
- Stricter international safety and emission standards
- Rising labor and maintenance costs
- Increasing demand for terminal automation

Traditional hose-based systems often struggle to meet these modern requirements. Purpose-engineered marine loading arms, especially those developed by experienced Chinese manufacturers like Hechang, are becoming the preferred solution.

### **Why Ports Are Turning to China-Built Marine Loading Arms**

Port operators prioritize equipment that performs consistently under harsh marine conditions. Hechang's marine loading arms are engineered with:

High-strength structural design

Precision swivel joint technology

Corrosion-resistant materials

Stable multi-range motion capability

These features enable reliable long-term operation in demanding environments such as offshore berths, tidal terminals, and high-throughput oil ports. The company's experience across thousands of projects further reinforces customer confidence.

### **2. Competitive Lifecycle Economics**

While performance is critical, ports also face strong cost-control pressure. China-built loading arms have gained trust largely because they offer strong lifecycle value rather than simply lower upfront pricing.

Hechang helps customers optimize total ownership cost through:

Durable component selection

Reduced maintenance frequency

Efficient spare parts support

Energy-efficient drive systems

Long service intervals

For terminals handling high daily volumes, these lifecycle savings can be substantial over the equipment lifespan.

### **3. Advanced Automation and Intelligent Features**

Modern ports are moving toward smart terminal operations. Hechang integrates automation into its product ecosystem, including:

Intelligent auto-alignment system

Fully automatic loading solutions

Quantitative loading control systems

Pneumatic, electric, and hydraulic drive options

These technologies reduce manual intervention, improve positioning accuracy, and shorten vessel turnaround time. As ports digitize their operations, such intelligent features are becoming decisive purchasing factors.

### **4. Strong Safety and Environmental Performance**

Safety incidents at liquid terminals carry severe operational and reputational risks. Marine loading arms must therefore meet increasingly strict international standards.

Hechang designs its systems with multiple protective layers:

Emergency release capability

High-integrity sealing systems

Stable structural balance

Compatibility with quick release hooks and gangways

Precise flow control support

These features help ports minimize spill risks, protect personnel, and comply with tightening environmental regulations.

#### [Certifications Strengthening Global Confidence](#)

A key reason major ports increasingly trust Hechang is its comprehensive certification framework and quality management discipline.

The company has obtained:

- **Quality Management System Certification (ISO9001)**

- **Environmental Management System Certification (ISO14001)**
- **Occupational Health and Safety Management System Certification (ISO45001)**

These internationally recognized certifications demonstrate that Hechang's design, manufacturing, and service processes follow rigorous global standards. For EPC contractors and port authorities, such credentials significantly reduce supplier risk during project evaluation.

### **Active Presence at Major Industry Exhibitions**

Beyond certifications, Hechang maintains strong engagement with the global petrochemical and offshore engineering community through participation in leading industry exhibitions, including:

- **China International Petroleum & Petrochemical Technology and Equipment Exhibition (CIPPE)**
- **Beijing International Offshore Engineering Technology & Equipment Exhibition**
- **China Sourcing Summit on Petroleum & Chemical Equipment (CSSOPE)**

These platforms allow the company to showcase new technologies, exchange insights with industry stakeholders, and stay aligned with emerging terminal requirements. Continuous market interaction helps ensure that Hechang's product roadmap reflects real-world operational needs.

### **Integrated Product Ecosystem for Modern Ports**

Hechang's competitive strength also lies in its ability to provide complete terminal handling solutions rather than standalone equipment. Its core product portfolio includes:

- Marine loading arms
- Tanker loading arms (standard, gantry, cryogenic LNG, intelligent types)
- Fully automatic loading systems
- Quantitative loading control systems
- Quick release hooks
- Gangways
- Hose handling systems
- Steel trestles
- Floating pontoons

This system-level capability enables ports to streamline procurement, reduce interface risks, and accelerate project deployment.

### **Looking Ahead: China's Growing Role in Marine Loading Technology**

As global energy trade continues to expand and terminals pursue higher automation levels, the demand for reliable, intelligent marine loading solutions will keep rising. Chinese manufacturers with strong engineering depth and quality systems are increasingly positioned to play a central role in this transition.

Lianyungang Hechang Machinery Co., Ltd. remains committed to continuous innovation, strict quality control, and responsive global service. By combining proven mechanical design with modern automation and full life-cycle support, the company continues to strengthen its position as a trusted partner for major ports worldwide.

For more information about Hechang's marine loading arm solutions and integrated terminal equipment, visit:

<https://www.chinaloadingarm.com/>



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