

From 'Moving It' to 'Moving It Right': MAXTECH's Vision for Smarter Maritime Handling

MAXTECH's crane, spreader and grab systems, powered by MAXAI, reshape cargo handling across ships, ports and offshore platforms.

SHANGHAI, SHANGHAI, CHINA, August 17, 2026 /EINPresswire.com/ -- The maritime and port industry is undergoing a profound shift — from "equipment-driven" to "system-driven" operations. The global ship cargo handling equipment market was valued at approximately US\$11.63 billion in 2025 and is projected to reach US\$17.19 billion by 2032. Behind this growth lies a rising demand for greater handling efficiency, operational precision, and lifecycle reliability. Moving cargo is no longer enough — the industry needs to "move it right."

In this transformation, MAXTECH is optimizing the boundaries of maritime handling with a product portfolio that covers vessels, ports, and offshore platforms.

I. From Vessels to Ports to Platforms – Full-Scenario Coverage

Maritime handling spans deck operations, port loading, offshore supply, and engineering construction. MAXTECH's product line follows this chain end-to-end.

On vessel decks, Marine Deck Cranes and Ship Cranes handle daily cargo, maintenance, and supply. MAXTECH's telescopic boom marine crane offers a 5–30 m working radius and 40 m lifting height, serving bulk carriers and container vessels alike.

At ports, Port Cranes and Mobile Harbour Cranes (MHC) provide rail-free flexibility. MHCs on rubber-tired chassis move freely, with capacities from 10 to 200 t and radii up to 60 m. They support rapid switching between Spreader and Grab attachments — one machine for both container and bulk operations.

On offshore platforms, Offshore Cranes withstand salt-spray corrosion, strong waves, and confined decks through anti-corrosion coatings and sealed components.

From marine deck cranes to port cranes, from MHCs to offshore platform cranes — MAXTECH's product matrix covers every critical node in maritime handling. This is not a simple product line extension; it is a full-scenario re-engineering of the "handling" process.

II. More Than Just Cranes: The Synergy of Spreaders, Grabs and Hoppers

Another core logic: a crane is only part of the handling system. What often determines loading/unloading efficiency is the equipment at the crane's "end" — the Spreader, Grab, and Hopper.

MAXTECH's Container Spreader line covers multiple specifications from 20 to 45 feet, including fully manual, semi-automatic, fully automatic telescopic, twin-lift, and tilting types. The fully automatic telescopic spreader adjusts between 20 and 45 feet to suit different container sizes. The twin-lift spreader lifts two 20-foot containers simultaneously, doubling handling productivity — directly translating into higher terminal efficiency for high-throughput ports.

In bulk handling, MAXTECH's Grabs and Hoppers form a complete solution. The grab range includes four-rope mechanical grabs, hydraulic grabs, and electro-hydraulic grabs. To address bulk handling bottlenecks in the Middle East, MAXTECH developed remote-controlled hydraulic grabs, used with ECO bulk hoppers to reduce blockage risks and energy consumption.

More importantly, MAXTECH provides not isolated equipment, but integrated "crane + spreader + grab" packages — from cranes to spreaders, grabs to hoppers, all interfaces and performance synergies are systematically designed and validated. This brings not only procurement convenience but also cumulative efficiency gains in actual operations.

III. Intelligent Technology – From Experience-Driven to Data-Driven

If products are the “skeleton,” intelligence is the “nervous system.”

MAXTECH's MAX-AI Intelligent System has three core modules:

Wire Rope Online Monitoring – uses electromagnetic NDT to detect wire breaks, wear, and corrosion in real time, issuing alerts and turning reactive maintenance into proactive warning.

Slewing Bearing Wear Detection – uses high-precision sensors and PLC analysis to measure bearing settlement, calculate wear trends, and trigger alarms — converting unplanned downtime into scheduled maintenance.

Anti-Sway & Precision Positioning – actively dampens load oscillation during slewing and luffing, with fine positioning for precise placement. Sway control accuracy directly impacts handling efficiency and cargo safety.

Moreover, MAXTECH is embedding AI into its RHC (Rail-Mounted Harbour Crane) and MHC series, enabling autonomous path optimisation, adaptation to changing conditions, and semi- or fully automatic operation. Handling is moving from human-operated to machine-autonomous — a fundamental shift.

IV. From "Selling Equipment" to "Building Networks": How Services Define Long-Term Value

Equipment is the starting point; service is the carrier of long-term value.

MAXTECH has established service networks across key maritime hubs worldwide, covering Africa (Angola, Tanzania, South Africa, etc.), Asia (Malaysia, Indonesia, South Korea, Singapore, etc.), the Middle East (Dubai, Saudi Arabia, Turkey, etc.), and Europe (Greece, the UK, Spain, etc.).

This is not merely a network of "after-sales outlets" — it means that when a customer's Marine Crane at a port in Angola needs support, MAXTECH's local engineers can respond from the nearest centre, rather than being dispatched from thousands of miles away. In the 2.5-ton 40-metre knuckle boom crane project in Mauritius, MAXTECH deployed two experienced service engineers to provide installation guidance, system commissioning, and technical training, ensuring smooth operation in the hot, humid port environment.

Meanwhile, MAXTECH's products hold multiple international classification society certifications, including ABS, BV, CCS, DNV, KR, and RS. From design and manufacturing to installation and commissioning, every step complies with international standards — meaning equipment can be seamlessly deployed across different countries and ports without repeated certification.

V. The Next Decade of Maritime Handling

MAXTECH is building an end-to-end maritime handling capability —

From daily cargo handling with Marine Cranes and Deck Cranes, to dual-mode container and bulk operations with Port Cranes and MHCs; from heavy-lift operations with Offshore Cranes on oil platforms and wind farms, to precise end-point execution with Container Spreaders, Grabs, and Hoppers; from real-time monitoring and autonomous optimisation with the MAX-AI Intelligent System, to service networks covering major global ports.

This is not something that can be summed up by the performance specs of a single piece of equipment — this is a system-level capability.

In the next decade, the industry will need not cranes with larger tonnage, but smarter, more coordinated, and more reliable handling systems. With its three-pronged approach of products, technology, and services, MAXTECH is answering the new questions that this era poses to maritime handling.

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