



# Modular Offshore Equipment

*Future-Proofing Offshore Wind Operations Through Modular Cranes and Gangway Systems*

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# Introduction

As offshore wind projects continue to grow in scale, complexity and geographical reach, vessel operators and developers face increasing pressure to optimize fleet utilization while controlling capital expenditure. Equipment flexibility has become a key factor in achieving profitable and sustainable operations.

Traditionally, offshore cranes and walk-to-work gangways have been designed for specific applications, often requiring separate systems for different operational scenarios.

This approach can result in underutilized assets, higher investment costs and reduced adaptability to changing market demands.

SMST has developed a new generation of modular offshore access and handling solutions that addresses these challenges. Through fully interchangeable functional modules, operators can reconfigure equipment for different applications, offshore sectors and project requirements without replacing the complete system.

# The Need for Greater Flexibility

The offshore market is evolving rapidly. Vessel owners increasingly seek opportunities to deploy assets across multiple sectors, including offshore wind, oil and gas, subsea construction and maintenance activities.

However, conventional equipment often limits deployment flexibility. A crane configured for subsea operations may not be suitable for 3D motion-compensated lifting, while gangways are commonly optimized for either short-term transfer operations or long-term offshore access.

As a result, operators frequently invest in multiple dedicated systems to serve different project types. This increases capital expenditure, vessel complexity and long-term ownership costs.

The industry increasingly requires solutions that can evolve alongside project requirements and market developments. SMST's modular philosophy was developed specifically to address this need.



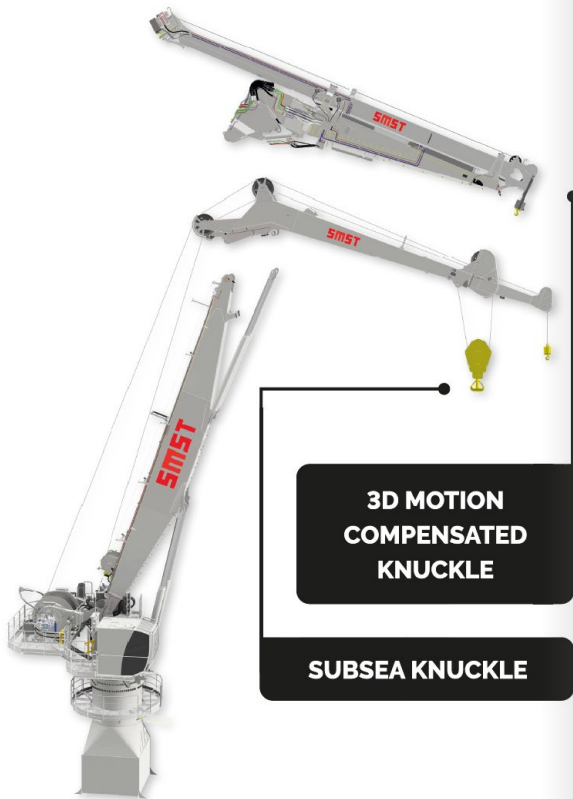
# Modular Crane Technology

At the heart of SMST's crane concept is a standardized base crane platform combined with interchangeable knuckle modules.

The base crane remains identical, while the functional knuckle section can be exchanged depending on operational requirements. This allows operators to configure the same crane platform for:

- Subsea lifting operations
- 3D-compensated lifting operations
- Offshore wind support activities
- Oil and gas applications

By exchanging only the required module, operators can adapt the crane to changing project needs without investing in a completely new installation. This creates significant operational flexibility and allows a single vessel to serve multiple markets throughout its operational life.



# One gangway, Multiple Missions

The same modular philosophy has been applied to SMST's gangway systems.

Depending on project requirements, the gangway can be equipped with either:

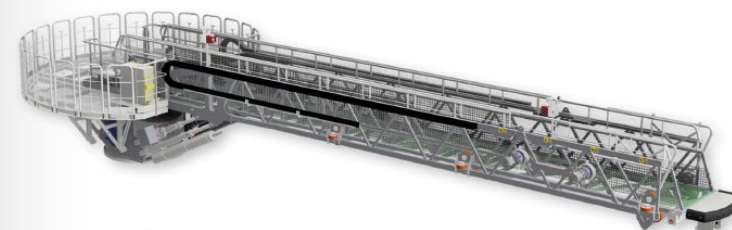
## Bumper-Mode Tip

Designed for short-duration landings and transfer operations, providing a practical solution for temporary personnel transfer requirements.

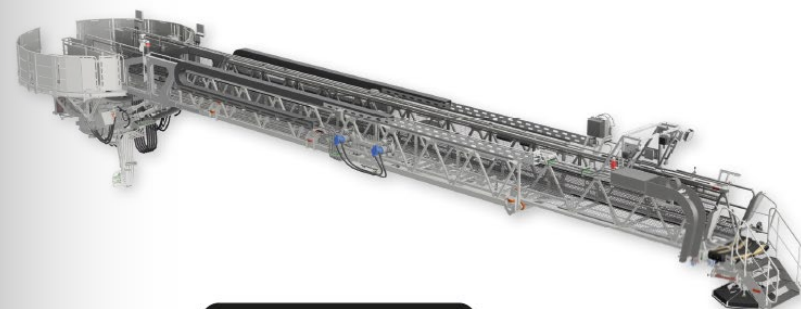
## Cone-Mode Tip

Designed for long-term station keeping and continuous access operations, enabling secure connection to offshore structures for extended periods.

This interchangeable concept enables both Type 1 and Type 2 gangway operations from a single gangway platform. Operators can therefore respond to a wider range of project requirements without investing in separate gangway systems.



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# Reducing Total Cost of Ownership

One of the most significant advantages of modular equipment is its contribution to lower lifecycle costs.

Instead of replacing complete systems when operational requirements change, operators can replace or upgrade only the relevant functional modules. This approach delivers several benefits:

- Lower lifecycle costs through future adaptability
- Reduced upgrade costs
- Increased asset utilization
- Faster return on investment
- Extended equipment lifecycle

The ability to adapt existing equipment rather than replace it creates financial benefits throughout the asset's operational lifetime.



# Supporting Sustainable Offshore Operations

Sustainability is increasingly important across the offshore industry. Modular equipment contributes directly to environmental objectives by reducing material consumption and maximizing the use of existing assets.

Because the core equipment remains in service while only specific modules are exchanged, fewer materials are required compared with complete equipment replacement.

This results in:

- Reduced manufacturing demand
- Lower material consumption
- Reduced transportation requirements
- Lower overall carbon footprint

Higher asset utilization also means that operators can achieve more with fewer installations, supporting a more resource-efficient offshore industry. In addition, SMST is committed to maximizing operational energy efficiency by minimizing power consumption during equipment operation, helping operators reduce both energy use and emissions throughout the asset lifecycle.



# Cross-Market Deployment Opportunities

The offshore industry is becoming increasingly interconnected. Vessel owners frequently move between offshore wind, oil and gas, decommissioning and subsea markets depending on demand.

SMST's interchangeable equipment architecture allows operators to maximize utilization across these sectors. The same vessel and equipment platform can be adapted for different operational profiles, helping owners respond quickly to new opportunities while protecting existing investments.

This cross-market capability creates a future-proof solution that remains relevant even as market conditions evolve.



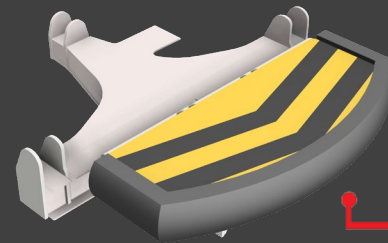
# A New Standard for Offshore Equipment

Unlike conventional systems with fixed functionality, SMST's modular offshore cranes and gangways have been designed around adaptability from the outset.

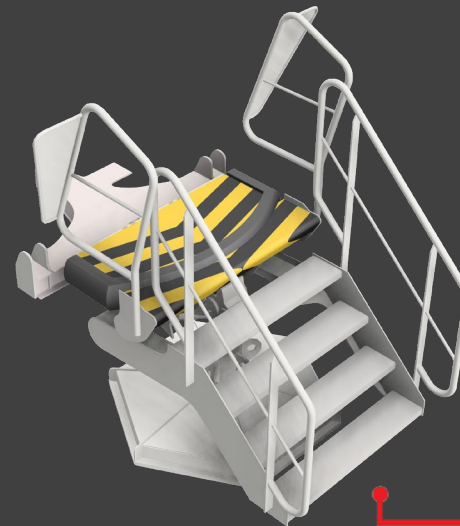
The result is a platform that offers:

- Mechanical and functional modularity
- Rapid module exchange
- Lifecycle flexibility
- Cross-market applicability
- Reduced ownership costs
- Improved asset utilization

By enabling operators to adapt equipment rather than replace it, SMST is helping the offshore industry move towards a more efficient, sustainable and economically resilient future.



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# Conclusion

As offshore projects become increasingly diverse and demanding, flexibility is no longer a luxury, it is a necessity.

SMST's modular crane and gangway solutions demonstrate how interchangeable equipment can unlock new levels of operational efficiency, investment protection and sustainability. By allowing operators to reconfigure assets for different applications, sectors and market conditions, these solutions help maximize vessel utilization while minimizing lifecycle costs.

For operators seeking future-proof offshore access and handling solutions, modularity offers a smarter way forward.



# About SMST

SMST is a well-established supplier of equipment to the global offshore industry, with a strong focus on renewable energy. SMST's products provide solutions for the safe and efficient transfer of people and cargo, for drilling, pipelaying and project solutions.

Through the unique combination of in-house design and engineering expertise, production facilities, testing capacity, worldwide installation and service, SMST delivers high quality engineering and product solutions that are distinctive in the offshore market.

In addition to prioritizing safety and efficiency, the products feature a modular design that offers maximum flexibility to the operations for the international offshore partners.

For the offshore wind sector SMST has developed a complete system package, which includes a range of gangways adjustable for various heights, modular offshore cranes which can be equipped with various knuckle booms and active heave- and (3D) motion compensation, and special handling equipment.

SMST is committed to delivering high quality solutions along with comprehensive services and training. The company continuously improves its products and services to meet evolving industry standards, driving innovation and taking the industry to the next level.

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# Product Overview

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## Personnel Access

- Telescopic Acces Bridge
- Access & Cargo Tower
- Stacking modules
- Newbuild & Rent
- Range: M, L, XL

## Lifting Systems

- Offshore Cranes
  - AHC
  - MCC
- LARS
- Range: S, M, L, XL

## Module and Tubular Handling

- Pipe-Handling
- Riser-Handling
- PLET-Handling
- Skidding
- Cable Laying
- Rock Dumping

## Engineered Solutions/ETO

- Doors, Decks & Hatches
- Small Offshore Crafts
- Custom Solutions

