

Advancing Shipyards Lifting

Vard Vung Tau, Vietnam



Lifting & rotating ship blocks

Vard Vung Tau Ltd., located in Vung Tau, Vietnam, is a modern shipbuilding facility specializing in offshore and specialized vessels. Since its establishment in 2006, the shipyard has experienced significant growth. In 2024, Vard expanded its production capacity by 75%, enabling the construction of up to seven vessels annually.

To support this growth, Vard needed reliable and high-quality lifting equipment to meet the demands of their expanded operations, particularly in the assembly and cutting workshops.

One of Vard's primary needs was a crane capable of rotating large ship blocks during critical welding processes in the assembly workshop. These tasks demand precise and safe handling of heavy loads. Additionally, the cutting and press workshop required cranes to efficiently lift and transport materials, ensuring smooth production workflows. The equipment had to meet stringent safety and performance standards, operate reliably in high temperatures, and be delivered within a tight timeline to avoid disrupting production schedules.

Konecranes provided a tailored solution to meet Vard's specific needs. The core of this solution was a 120-ton double-girder crane installed in the hull assembly workshop. This crane, equipped with two 80-ton hoists that operate in tandem, was designed specifically for rotating the ship blocks vertically through 180 degrees; a critical task in shipbuilding.

For enhanced safety and reliability, the crane features a rope overlay device, galvanized wire ropes, and a specialized safety rope drum brake system. Dual hydraulic brakes add an extra layer of safety, and the crane's components are designed to function in temperatures up to 50°C.

In addition to the assembly workshop crane, Konecranes supplied six cranes for the cutting and press workshop. These included two 20-ton cranes, one 15-ton crane, and three 10-ton cranes, each designed to handle the diverse lifting needs of the workshop.

"To meet Vard Vung Tau's delivery and installation timeline, our local project team worked hand-in-hand with our regional design and factory teams. This close collaboration enabled us to optimize workflows and ensure the cranes were delivered and installed on time, seamlessly supporting Vard's production activities without any disruptions," states Trong Binh Vo, General Manager, Sales Konecranes Vietnam.



Sivert Skårn, General Director at Vard Vung Tau Ltd, says, "The 120-ton crane in the assembly workshop was an essential part of the recent expansion of the shipyard for the safe and precise rotation of ship blocks. This is a significant upgrade for Vard compared to how we previously handled and turned ship blocks. The additional cranes in the cutting and press workshop have optimized material handling, allowing a high level of fine control in moving plates onto the CNC machines with a rotating device and off the machine onto the forming workshop."

To help ensure continued performance and safety, a Care Preventive Maintenance Program has been implemented. Cranes with a minimum structural rating of FEMA 4 and hoist ratings of ISO M5 are inspected quarterly. The high standards and preventive maintenance activities help reduce risk and identify opportunities for improvement while supporting compliance. By maintaining equipment reliability, Vard can achieve its production goals without interruption.

"Vard selected Konecranes as supplier because we depend on equipment reliability, and effective service and support" adds Sivert Skårn, General Director at Vard Vung Tau Ltd.

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