

Tailored cranes for production

Chart Industries Inc., USA



Precise & heavy-duty lifting

Chart Industries, Inc. has recently opened a new production facility in Theodore, Alabama where they are building the largest shop built cryogenic storage containers in the world. To enhance operational efficiency, Chart Industries Inc. requires customized lifting equipment capable of handling complex and heavy-duty tasks in their production processes.

Chart Industries Inc. required a material handling system that could match the pace and complexity of their operations. The project, in partnership with general contractor Brasfield and Gorrie, necessitated a high degree of coordination and confidence in the material handling equipment provider. Chart needed a solution that could support the precise and heavy-duty demands of cryogenic tank production, including the capability for tandem crane operations.

Konecranes provided a tailored solution to meet Chart Industries' specific requirements, delivering three 35-ton semi-gantry cranes and two 175/40t TRDG cranes, along with a specialized 30-ton vacuum lifter crane equipped with two trolleys. These cranes were designed for seamless tandem operation, enabling the lifting of entire tanks for final load-out—a critical step in Chart's manufacturing process.

The integration of Konecranes' material handling systems has significantly enhanced operational efficiency at Chart Industries. The 30-ton vacuum lifter crane has optimized material handling from unloading through to the welding process. Additionally, the 35-ton semi-gantry cranes have improved the movement of materials around the plate rolling machines, while the 175/40-ton cranes have been instrumental in handling tank segments and assembling the complete tanks.

Randy Cantrell, Regional Sales Manager, Metals Industry Support AME, states: "Given the fast-paced nature and evolving design requirements of the project, Konecranes collaborated closely with Chart Industries' design and engineering team, the general contractor, and our subcontractors to deliver a flexible solution that adapted to changes until the final order was placed. The teamwork was exceptional, and I look forward to future projects with Brasfield and Gorrie and Chart Industries. The equipment we provided is truly impressive, and seeing it in person highlights its massive scale."



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Customer

- Chart Industries, Inc. is a leading cryogenic equipment manufacturer and global leader in energy and industrial gas solutions.
- Global presence with operations in the U.S., Asia, Australia, Europe, and Latin America.

Requirement

- The collaborative design process required close coordination between Chart Industries, Konecranes, and the general contractor to finalize the optimal equipment solution.
- The lifting solution had to be engineered to meet precise, heavy-duty operational demands.

Outcome

- Custom crane solution: Supplied three 35-ton semi-gantry cranes, two 175/40-ton TRDG cranes, and a 30-ton vacuum lifter crane equipped with two trolleys.
- Tandem operation: The cranes were designed for efficient lifting of entire tanks, serving a crucial function in the final load-out process.

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