



Manitowoc Cranes Improves Product Safety And Cuts Costs With ANSYS

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PITTSBURGH, July 15, 2015 /PRNewswire/ -- [Manitowoc Cranes](#), one of the largest providers of lifting equipment for the global construction industry, is maximizing safety and minimizing design and production costs by using [ANSYS](#) engineering simulation solutions to validate complete virtual prototypes of its lattice-boom towers and mobile-telescopic cranes.



Manitowoc Cranes has standardized on the ANSYS® simulation platform at its facilities in France, Germany and the United States, replacing a mix of commercial and in-house programs. The company has been using ANSYS solutions in a limited fashion for more than 20 years.

"Standardizing simulation software across the company provides us with a number of significant benefits," said Craig Kollar, senior manager of engineering, Manitowoc Cranes. "Those advantages include faster integration of multiple design options, the ability to simulate a sequential manufacturing process using load steps, as well as faster and more accurate modeling. We no longer need to depend on hand calculations and internally developed software alone."

Manitowoc Cranes' engineers use ANSYS® solutions during the feasibility phase to optimize concepts proposed by designers. They then depend on ANSYS to evaluate critical sub-assemblies for fatigue and static resistance against severe loads. Engineers also use ANSYS simulation to analyze stress and force of welded connections, as well as to measure the integrity of larger crane structures and components such as booms, chassis, turntables and hydraulic cylinders.

"In the world of heavy lifting, safety and quality are of paramount importance. As an industry leader, Manitowoc Cranes understands the importance of delivering the highest quality products at the lowest price for these customer requirements – on time and at a competitive price," said Brad Hutchinson, global industry director, industrial equipment and rotating machinery at ANSYS. "By using engineering simulation from ANSYS, the company can ensure their safety and quality promises are met."

About ANSYS, Inc.

ANSYS brings clarity and insight to customers' most complex design challenges through fast, accurate and reliable engineering simulation. Our technology enables organizations — no matter their industry — to predict with confidence that their products will thrive in the real world. Customers trust our software to help ensure product integrity and drive business success through innovation. Founded in 1970, ANSYS employs over 2750 professionals, many of them experts in engineering fields such as finite element analysis, computational fluid dynamics, electronics and electromagnetics, embedded software, system simulation and design optimization. Headquartered south of Pittsburgh, U.S.A., ANSYS has more than 75 strategic sales locations throughout the world with a network of channel partners in 40+ countries. Visit www.ansys.com for more information.

ANSYS also has a strong presence on the major social channels. To join the simulation conversation, please visit: www.ansys.com/Social@ANSYS

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