

DIGITAL INDUSTRIES SOFTWARE

Mastering heavy equipment complexity

Industry trends and customer demands are converging, compelling original equipment manufacturers (OEMs) to offer greater product variability and customization.

[siemens.com/teamcenter](https://www.siemens.com/teamcenter)



Industry trends driving equipment complexity



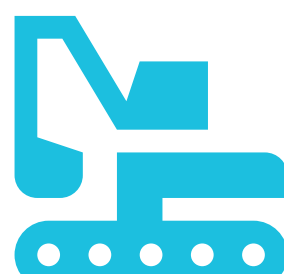
Market globalization



Electrification



Connected worksites



Autonomous operation

Rising demand for customization



1. Personalization:

Tailor equipment to customer-specific needs.



2. Globalization:

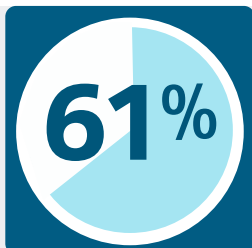
Satisfy regional operating conditions, regulations and work with local suppliers.



3. Sustainability:

Meet emissions standards and ensure safety and waste reduction.

The survey says:



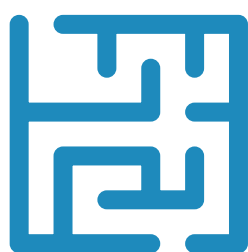
Sixty-one percent of companies differentiate themselves by level of customization.

That's why it is critical to use a comprehensive bill-of-materials (BOM) and configuration management solution to meet your customer's demand for specialized equipment and retain profitability.

"Driving Engineer-to-Order Differentiation and Profitability," Tech-Clarity, Inc., 2016.

Take control of product variability

Teamcenter® software provides heavy equipment companies with a single product configuration backbone to support development.



Manage complexity:

Consistent definition of variability across all domains.



Verify and validate at every level:

Real-time 3D visualization of products configured as you choose.



Offer variety without driving up cost:

Drive commonality and promote part re-use.



Take control of variability:

Support standard products, configure-to-order and engineer-to-order.

Leverage Teamcenter to build a digital thread across the product lifecycle



Improve time-to-market:

Minimize delays by synchronizing the engineering and manufacturing BOM with the bill-of-process (BOP).



Reduce errors:

Collaborate on manufacturing processes across domains to meet quality requirements.



Improve re-use:

Use a unified definition of variability to broaden buildable combinations, promote part re-use.



Enhance readiness for manufacturing:

Visualize and validate engineering BOM to drive manufacturing BOM and BOP.

Teamcenter is part of the Siemens Xcelerator portfolio, the comprehensive and integrated portfolio of software, hardware and services. To learn more, visit the [Custom Equipment Design](#) page.