Advanced Machine Engineering

Where engineering meets tomorrow
Industrial Machinery Market Trend

Customers drive customization
Smart machines
Hyper-automation
Global competition
An explosion of complexity…
...making the conventional challenges even more difficult to manage
Comprehensive Digital Twin

**Design**
Product & Production development

**Realize**
Manufacturing & Manufacturing Operations

**Optimize**
Performance and maintenance

Continuous product/production improvement
Catalyst for the Digital Enterprise

An integrated portfolio of software, services and an application development platform that speeds the digital transformation cycle and unlocks a powerful industrial network effect. Blurs the boundaries between traditional stand-alone engineering domains such as electrical, mechanical and software.

Comprehensive Digital Twin  Personalized Adaptable/ Modern  Flexible Open Ecosystem

Where today meets tomorrow.
The beating heart

We believe that the comprehensive digital twin is critical to the future of engineering innovation and that simulation and test are the beating heart of the digital twin. By providing you with insight into the real-world performance of your product or process, Simcenter allows you to accelerate innovation over the entire lifecycle.
Where engineering meets tomorrow
Investment imperatives for a comprehensive digital twin strategy

Model the complexity
Ensuring decision confidence

Explore the possibilities
Enabling insights

Go faster
Achieving speed and agility

Stay integrated
Connecting all activities

engineer innovation
Where engineering meets tomorrow
Investment imperatives for a comprehensive digital twin strategy

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  Ensuring decision confidence

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  Enabling insights

- **Go faster**
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Simcenter
Driving customer benefits

- better products
- earlier insights
- higher ROI
- greater productivity
- faster innovation

Simcenter

EXPLORATION & ANALYTICS • WORKFLOW AUTOMATION • PROCESS & DATA MANAGEMENT

System simulation
- computational fluid dynamics
- electromagnetics
- physical testing

MECHANICAL SIMULATION • ELECTRICAL SIMULATION • SYSTEM SIMULATION • COMPUTATIONAL FLUID DYNAMICS • ELECTROMAGNETICS • PHYSICAL TESTING

ENGINEERING SERVICES • DEDICATED SUPPORT

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Virtual Sensing

Realtime production monitoring and simulation.
Get access to infinite data to build AI models
Improve knowledge

Improve productivity, efficiency, quality and provide better services

Get access remotely on how machine or plant perform
Digital Logistics Optimization

Complex logistics scenario
Changing scheduling
Number of AGV’s & charging station
Charging strategy…
..13 Variable to take in account

AGVs reduced by 13%
Charging station reduced by 17%
Operation cost reduced by 14%
Dependency of battery management
Efficient search for system configuration
Digital Factory Optimization

Flexible production line
Changing production sequence based on customers requirements
Bottleneck reduce productivity and efficiency.
Number of AGV’s
Logistics sequence and storage
Up to 36 parameters

Materials reduced by 17%
Pallet on the line reduced by 42%
Save 20 minutes per day
Digital Production Optimization

Disruptive approach to get competitive advantages
Reduce setup time
Improve quality
Improve planning
Improve efficiency
Reduce time to market

Increased output by 18%
Reduced set-up time
Process industrialized and digitalized
Better together

Siemens

Xcelerator

Extensive portfolio

Simulation & testing

Support & services

Engineering powerhouse that has the strength and vision to continue pushing boundaries

Simcenter is an integral part of a broad portfolio including MCAD, PLM and EDA

Performance engineering for all phases for closed-loop product development

Unique combination that is essential for IoT/digital twin strategies deployment

Skilled team with industry expertise to help you gain competitive advantage
Thank you