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PASSTHROUGH:A13

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TRACK SPOTLIGHT

CAD

Brian Thompson

Divisional VP and GM, CAD Segment

Paul Sagar

VP CAD Product Management

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WHERE CREO AND CREO+ MEET: A ROADMAP



creo®



creo+™

8 0 1 2

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3 8 3 4

6 9 8 3

7846

6733

1 4 6 4

6 9 8 3

7 8 4 6

TOPICS

CAD Market Dynamics

Creo Investment Strategy

Creo 10

Creo+

COMMON ENGINEERING CHALLENGES

Time To Market



Cost Of Poor Quality



Product Innovation



44

Over 80% of executives list innovation as a top three priority; 10% are satisfied."

McKinsey & Company

MARKET TRENDS CREATE OPPORTUNITIES & CHALLENGES

Evolving Workforce



Automation



Sustainability Initiatives



SaaS





The USA will be short by **1.1 million** engineers by 2030, Germany by **185 thousand**.



NEW TECHNOLOGIES CAN HELP

Al

200

Data Agility



Computing Advances



Digital/Physical Convergence







Manufacturers are investing **\$524 billion** in digital transformation initiatives



NEW TECHNOLOGIES CAN HELP

Al



Al Materials

Generative Design

Al Security

Al Software Engineering

Al Analytics

Data Agility



Data Sharing

Influencer Engineering

Metaverse

Blockchain

Computing Advances



Simulation

Quantum Computing

IT Automation

Cloud

Self Integrating Apps

Digital/Physical Convergence



Additive Manufacturing

Tech Stack Goes Physical

Design for Manufacturing

NEW TECHNOLOGIES CAN HELP - IN ENGINEERING

Al



Al Materials

Generative Design

Al Security

Al Software Engineering

Al Analytics

Data Agility



Data Sharing

Influencer Engineering

Metaverse

Blockchain

Computing Advances



Simulation

Quantum Computing

IT Automation

Cloud

Self Integrating
Apps

Digital/Physical Convergence



Additive Manufacturing

Tech Stack Goes Physical

Design for Manufacturing

NEW TECHNOLOGIES ARE CHANGING DESIGN AND MANUFACTURING

Technologies deeply integrating into the design environment . . .

Augmented Reality Collaboration



Real-Time Simulation





Al-Driven Generative Design



Design for Additive Manufacturing

IoT-Driven Design .. with design, manufacturing & simulation capabilities that supports the entire digital and physical product lifecycle.



CREO STRATEGY IS DRIVING MARKET-LEADING GROWTH

44

Creo has had the largest active base percentage increase in twelve of the past sixteen quarters, including all of 2022."

Jay Vleeschhouwer, Griffin Securities CAD Industry Update, April 13, 2023





INTRODUCING



Productivity & Usability
Design for Composites
Design for Electrification
Design for Ergonomics

Model-Based Definition

Simulation & Generative Design

Manufacturing

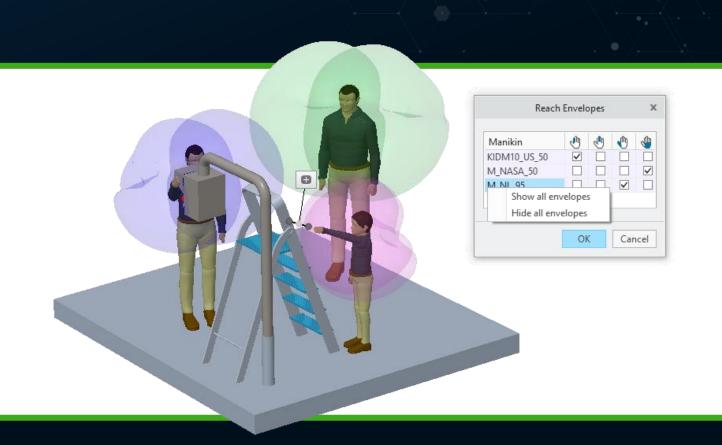
PRODUCTIVITY & USABILITY

- Model Tree
- Sketcher
- Holes

- Pattern
- Multibody
- Style, Freestyle& Warp

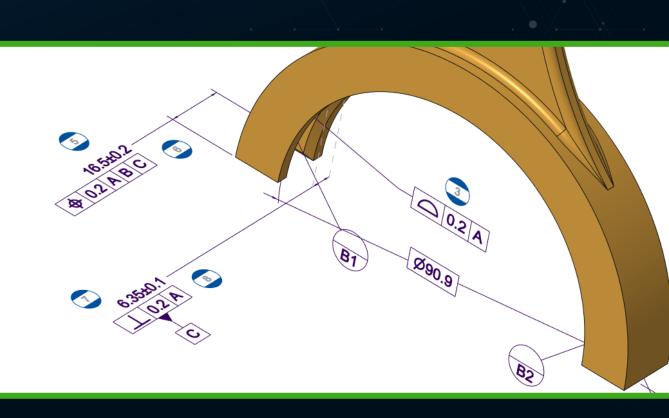
DESIGN FOR ERGONOMICS

- Usability
- Reach
- Updated Library
- Visual Field



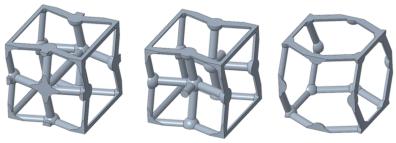
MBD & DIGITAL THREAD

- Relate symbols
- General Profile Tolerance (GPT)
- Detailing standards

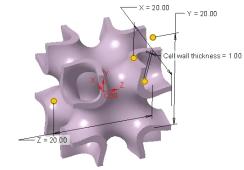


MANUFACTURING

- Additive Lattices
- High Speed Machining

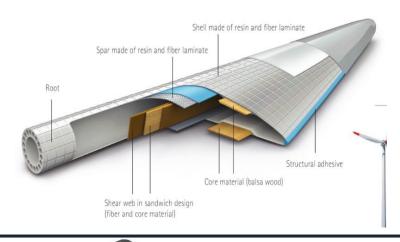


















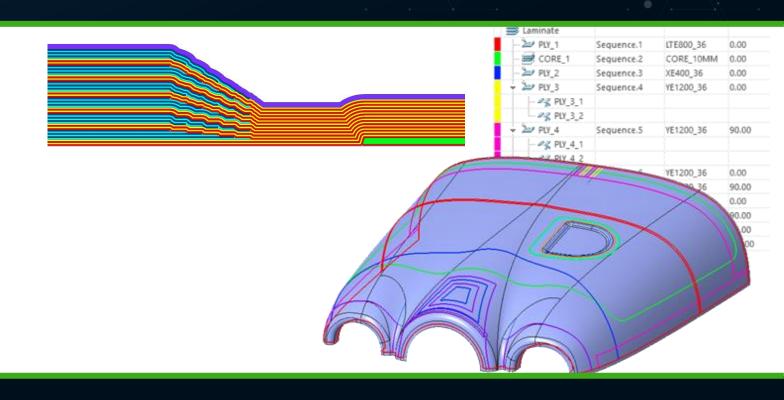






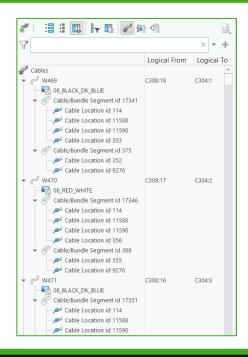
DESIGN FOR COMPOSITES

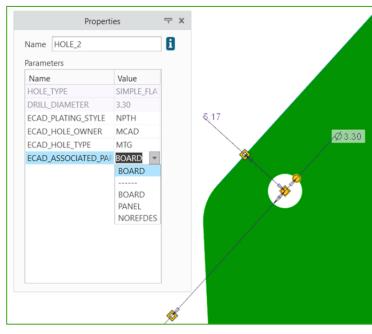
- Design
- Simulate
- Manufacture



DESIGN FOR ELECTRIFICATION

- Collaborate
- Reuse
- ECAD



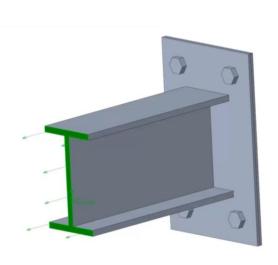


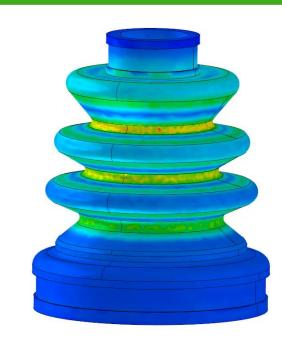




SIMULATION DRIVEN DESIGN

- Non linear contact
- Non linear materials
- Multi-physics





easy to use easy to configure easy to deploy always up to date



Streamlined Deployment

Simple user access and entitlement control

Enhanced Collaboration

Multi-user, real time concurrent design

Scalable PDM/PLM

Integrated with Windchill+ for PLM









EXCLUSIVE SaaS ROADMAP





Creo+ Product Launch



Configuration Management



Windchill+ Integration



Pre-paid Consumption

2023

2024

2025+

Creo+ Streaming Enhanced Telemetry Expanded Innovation



Customization Management

Government Certification





Future features will be continuously improved based on current usage/customer feedback

Fischer – Tuesday 3:45PM 😐



THANK YOU

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