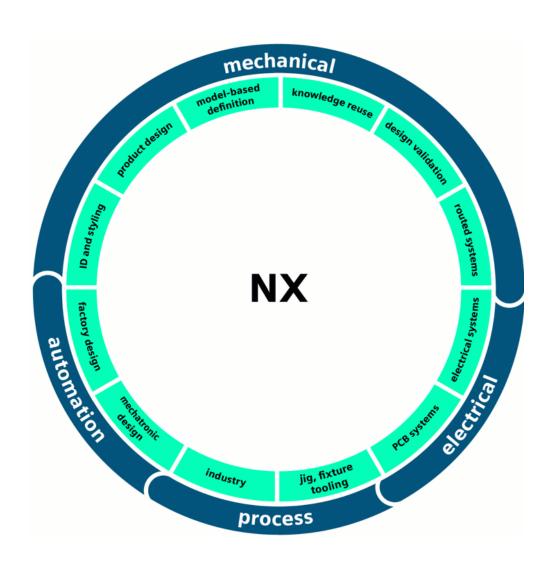
What's new in NX 2306 Fibersim

June 2023



Fibersim



Fibersim is the premier composite design tool targeted for industries with composite workflows of medium-high complexity

Full automation

Multi-ply, zone-based workflows

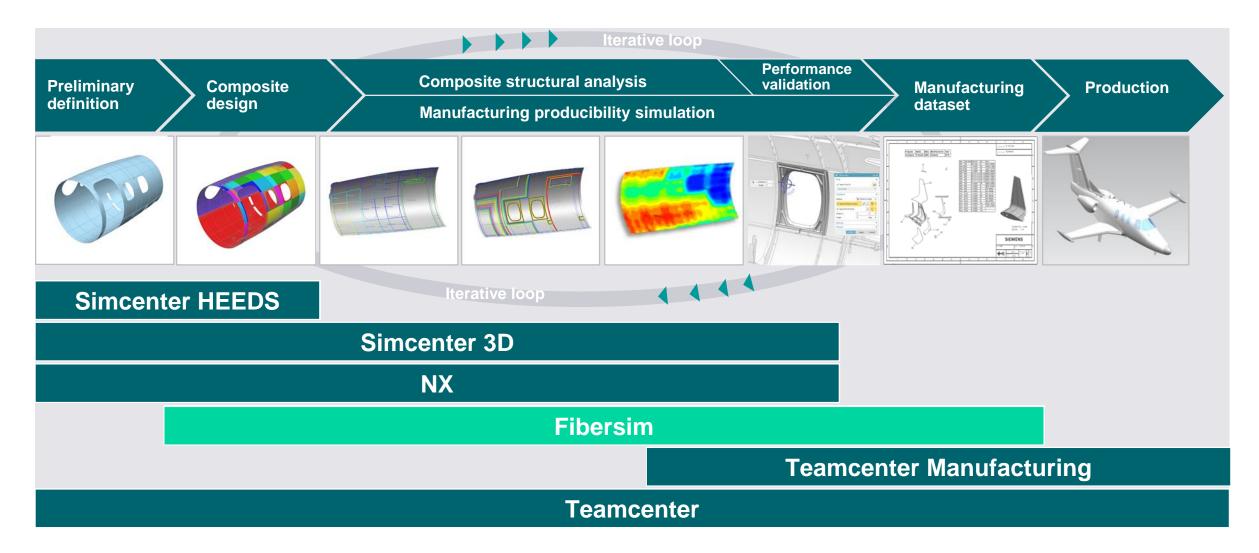
Advanced simulations

Volume fill

Complete set of outputs, documentation, machine programming, etc.



Siemens product synergy overview



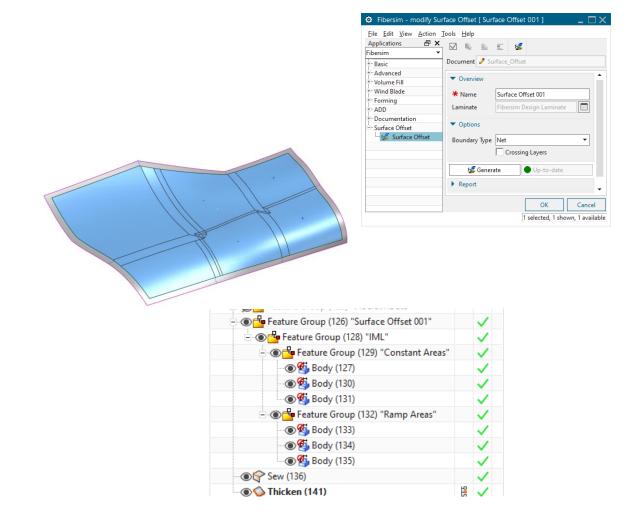


Key improvements of previous releases

Surface Offset utility

Create offset IML (inner mold line) surfaces, including ramps, for each constant thickness area of a composite definition

NX features will be replaced during regeneration after a design change, allowing parametric geometry to be built from the utility's results



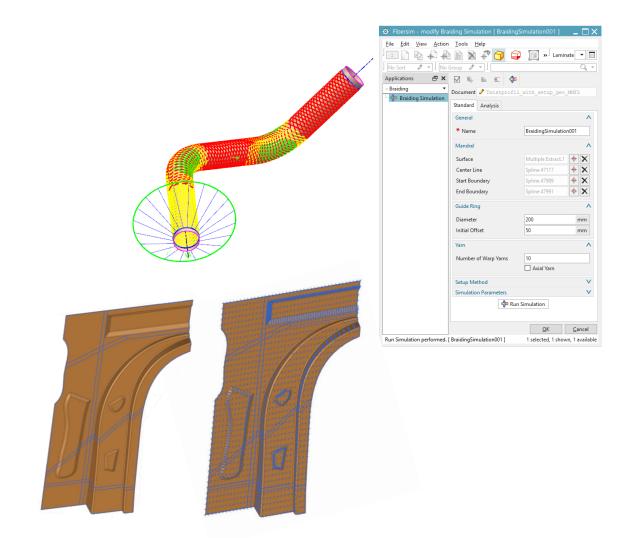


Key improvements of this release (17.3)

Design for braiding

OML Wireframe utility

Point Cloud offset surface generation





Key benefits of this release

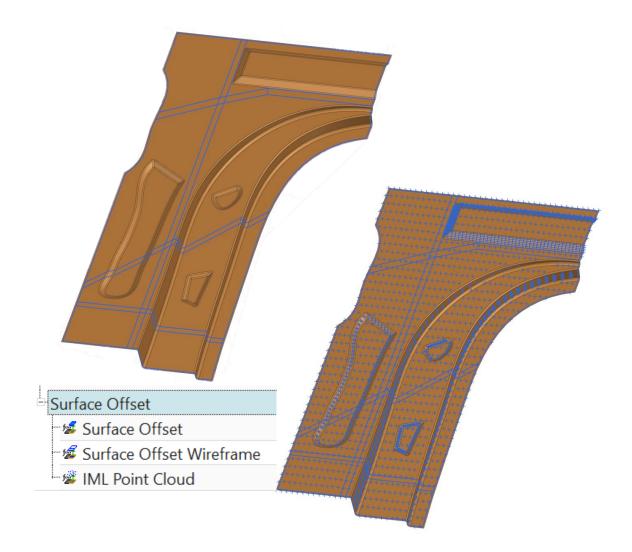
OML Wireframe and IML Point Cloud utilities

Save significant CAD modeling time by semiautomating the IML surface generation process

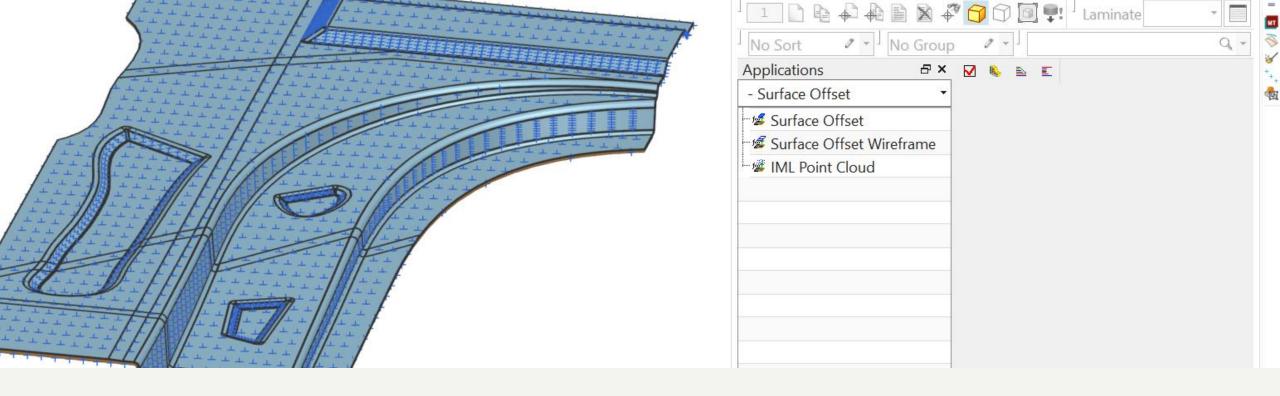
Alternate approaches to generating offset surfaces where fully automated tools fail due to surface/design challenges

Choose your own offset surface generation methodology leveraging NX technology

Allows for parametric workflows while performing the tedious calculations for you

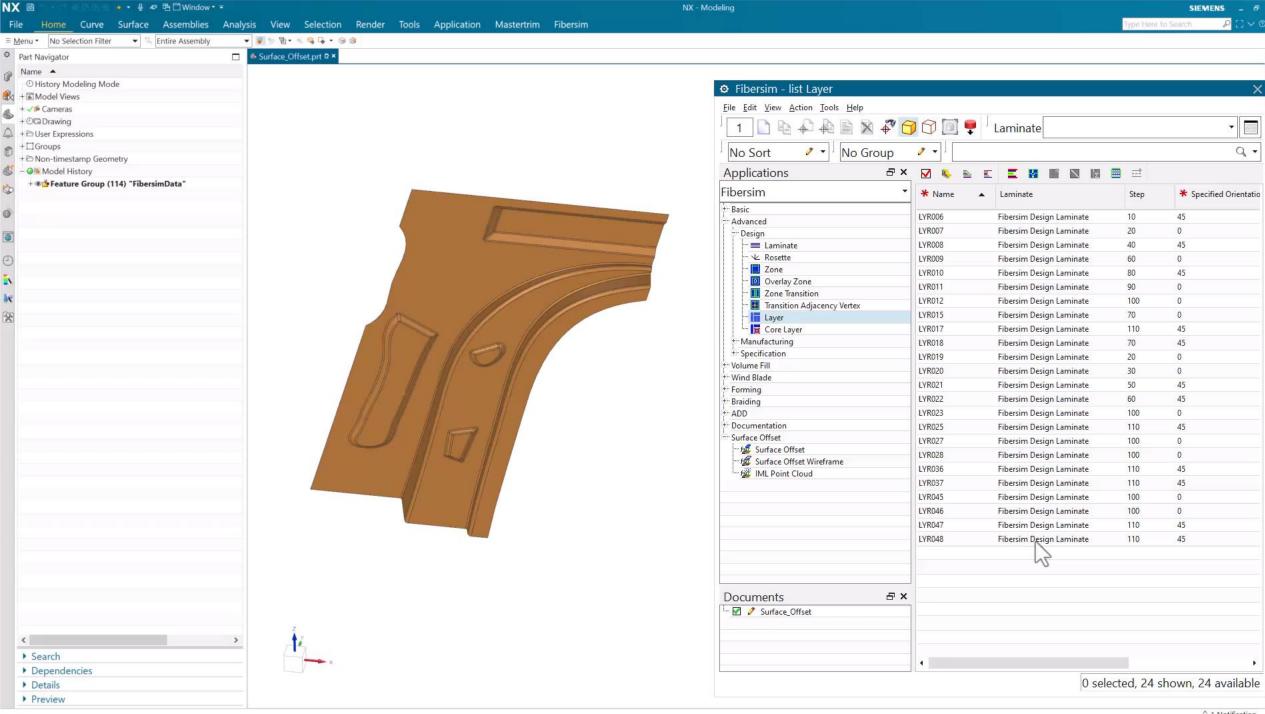






Demonstration OML Wireframe and IML Point Cloud utilities





Key benefits of this release

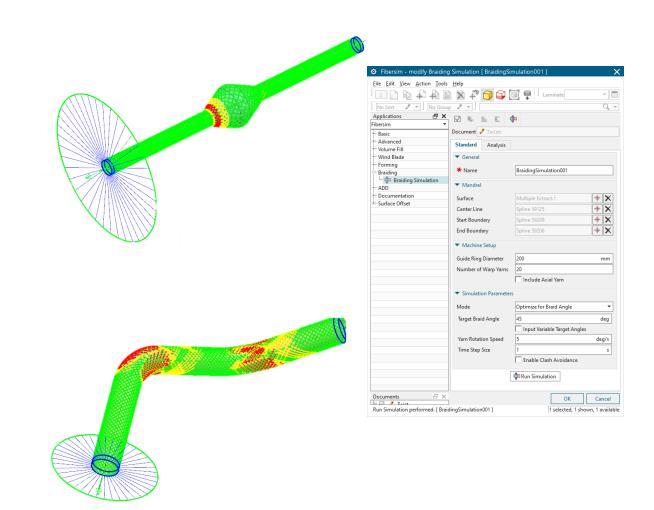
Design for braiding

Understand braiding process and part challenges of before making physical prototypes

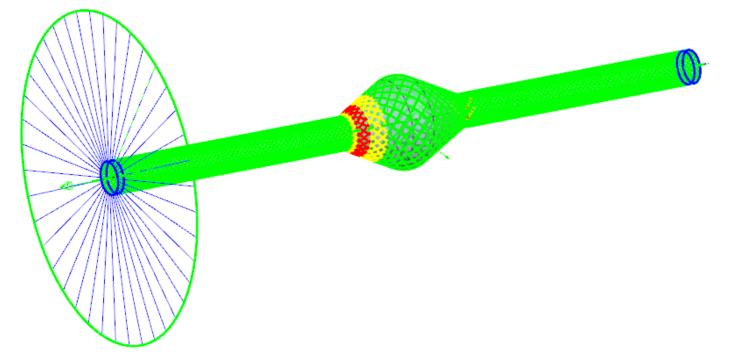
Design tool for overbraiding on a mandrel Answer questions early in design phase such as

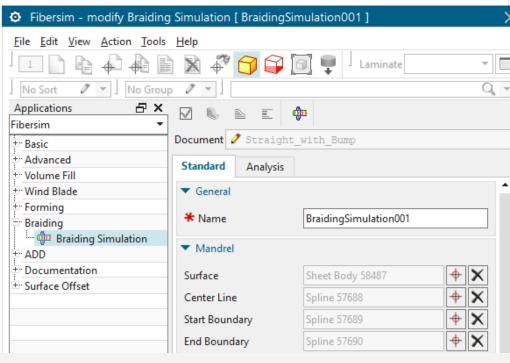
- Can I make this part with braiding?
- Will it meet the performance criteria?
- Do I have the tooling needed?

Compliments Fibersim's hand layup, AFP/ATL and forming solutions to help decide process and part shape early in design phase



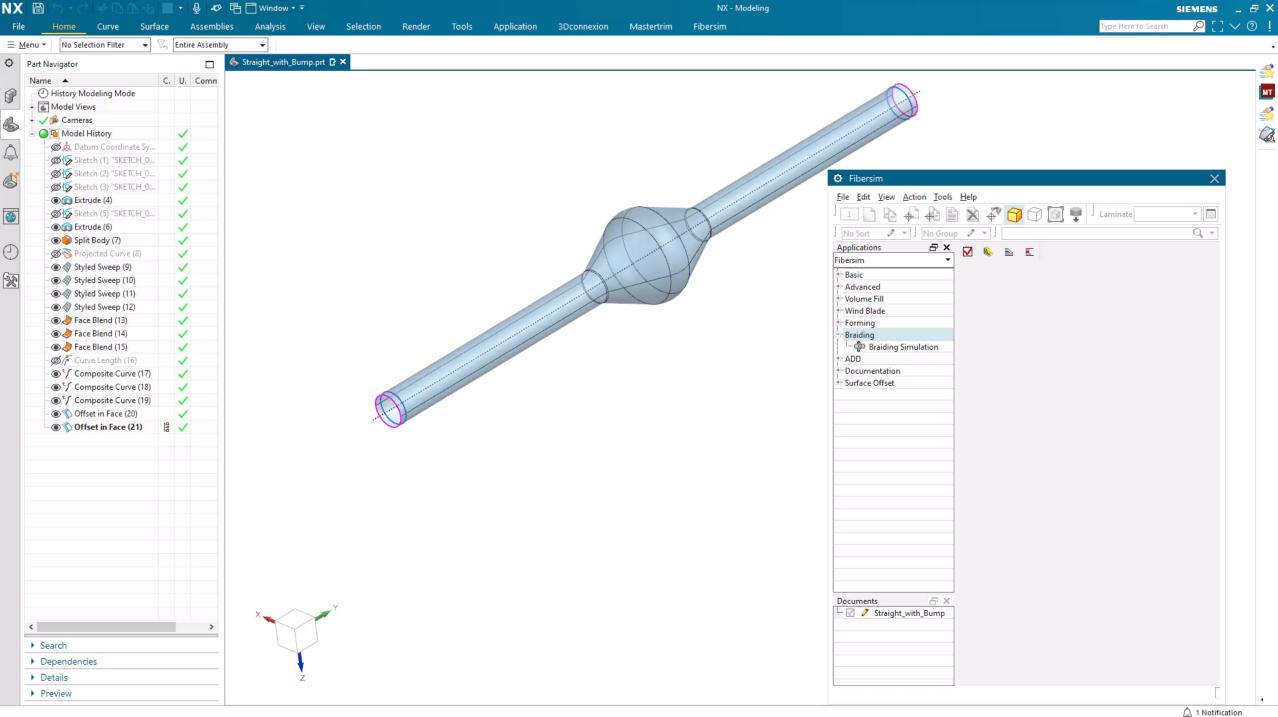






Demonstration Design for braiding





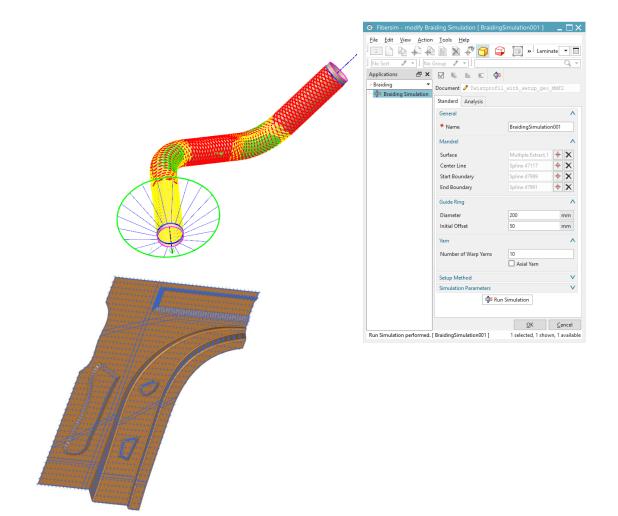
Technical information

OML Wireframe and IML Point Cloud utilities are included in Pro and Elite packages

Design for braiding is included in Elite and offered as an add-on to Pro

Compatibility of Fibersim 17.3

- 1980, 2007, 2206 and 2212
- Teamcenter 12.4, 13.x, and 14.x







Fibersim benefits

Integrate design and analysis – Increase the number of design cycles

Reduce composite structure weight – **Meet performance requirements**

Simulate real world performance – **Better** understand design margins

Avoid overdesign – **Reduce uncertainty, increase confidence in your margin**

Accelerate the development process – Connect design, simulation, and manufacturing





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