



Subdivision Modeling

Use freeform sculpting to generate complex shapes and surfaces

Soft Selection

Extend the influence of the manipulator proportionally to sculpt a larger area

Net Surface

Create a subdivision surface from existing sketches or curves

Reflect

Generate an editable, symmetrical copy of your subdivision surface

Subdivision Alignment Tools

Align subdivision entities to each other, or to additional sketches and model geometry

Working Zone

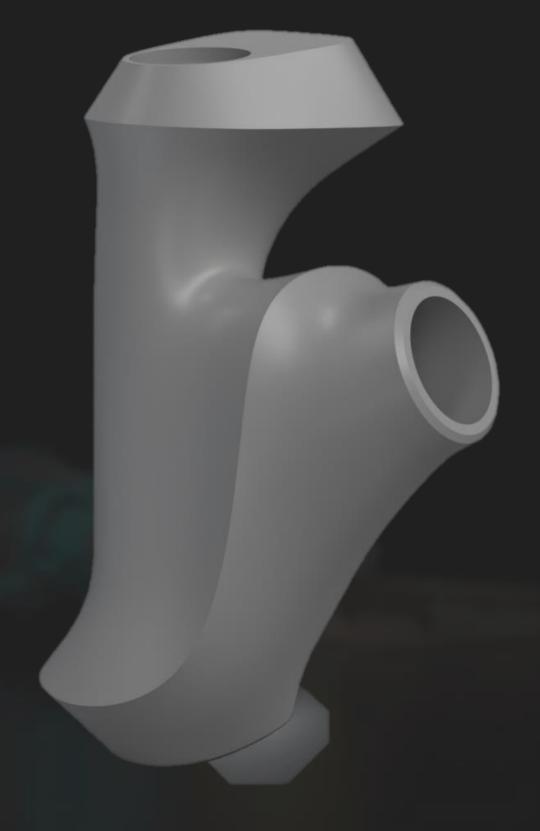
Define the area of the mesh that can be edited in a subdivision surface

Copy & Paste Subdivision

Duplicate a subdivision surface

Advanced Surface Views

Sculpt while viewing the normal surface, the subdivision cage, or from a section view









System Status

Ensure a strong server connection

Specify the high performance graphics processing unit (GPU)

Failure Identification

Visual feedback locating failure points of features including thicken, fillet, and chamfer

Print3D

Prepare models for additive manufacturing in a custom, virtual build volume

Support and layer visualization

Smart Mates

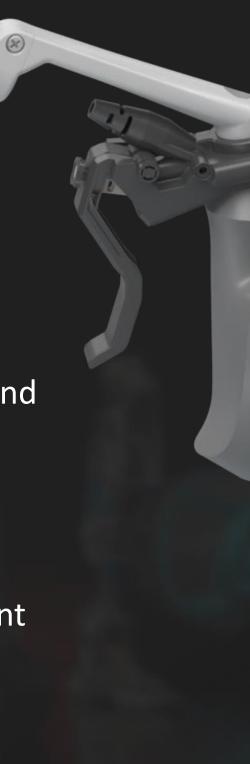
Drag and drop components to automatically apply mates

Selective Save

Choose which subassemblies and components to save

Lock Status

Lock models to avoid concurrent changes by multiple users









xGenerative Design

Algorithmic Design

Combine visual scripting and 3D modeling

Voronoi Operator

Partition an existing surface using Voronoi algorithm

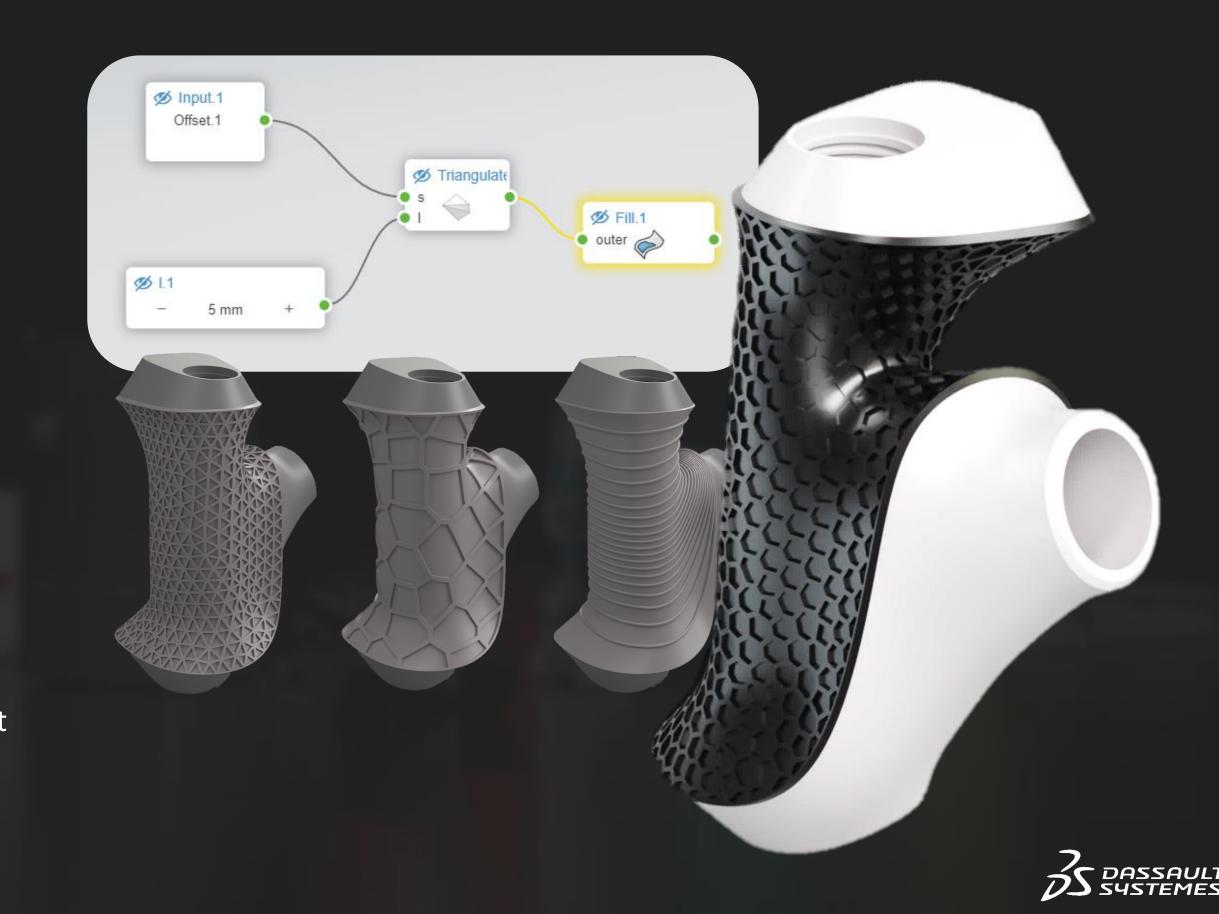
Parametric Operators

Perform algorithmic design with familiar commands such as "thicken", "add" boolean, "split" and more

Integration with xApps

Switch between design apps like xDesign and xShape to update original geometry

xGenerative patterns will automatically fit to the updated model







SOLIDAPPLICATIONS

Lattice Design Application

Lightweight components while retaining structural integrity

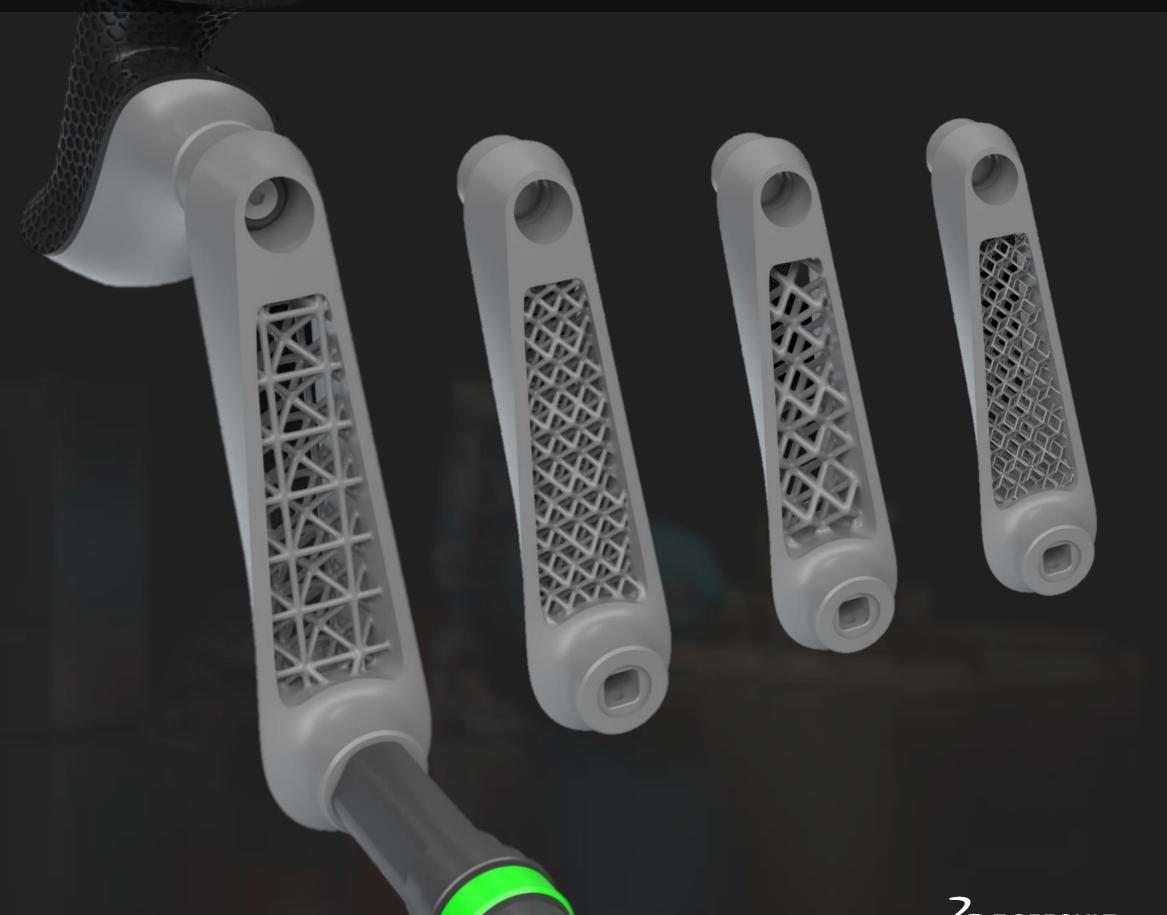
Lattice Design Assistant

Integrated step-by-step guide to select part, cavity, and lattice type

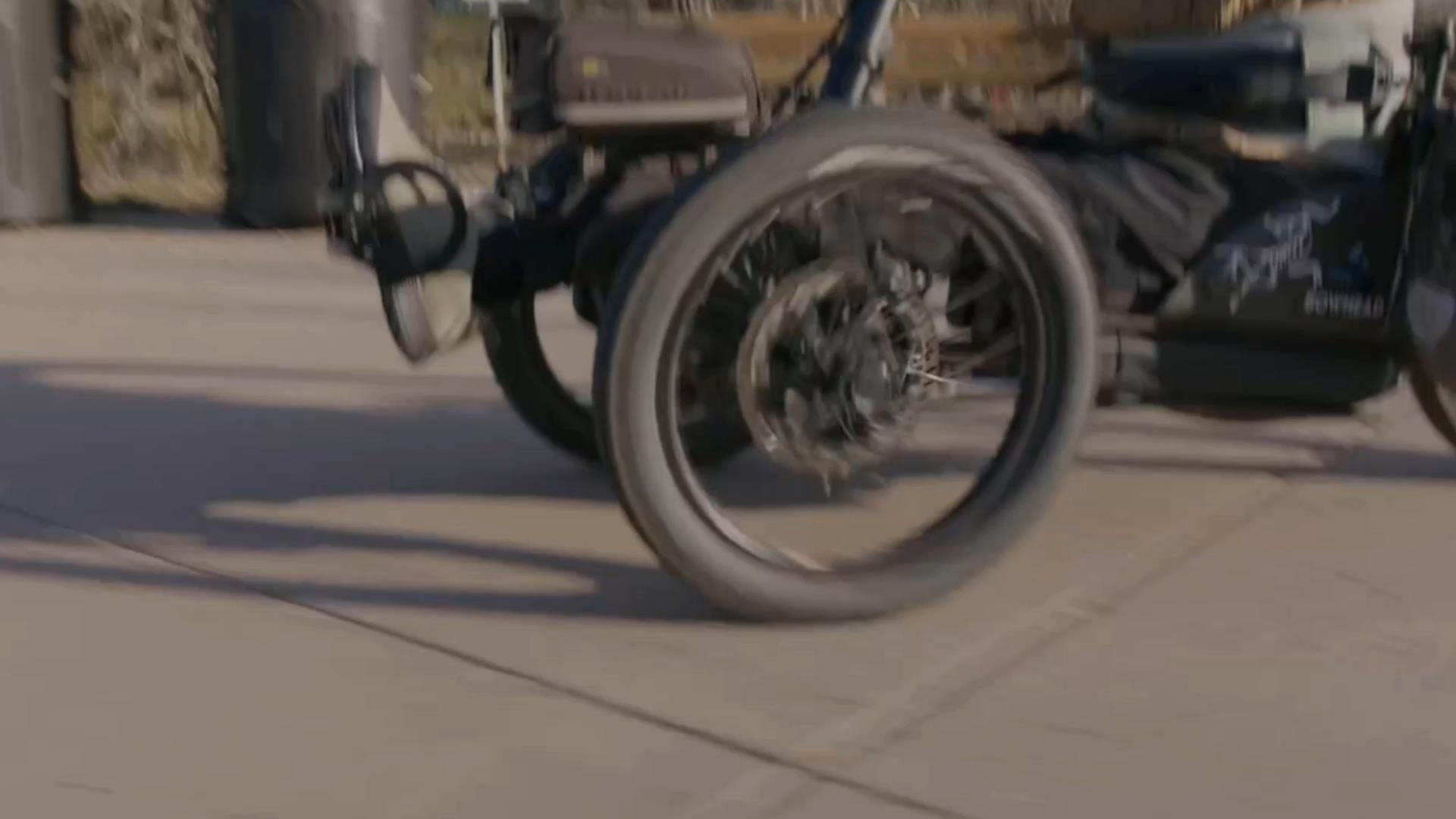
Lattice Structure Options

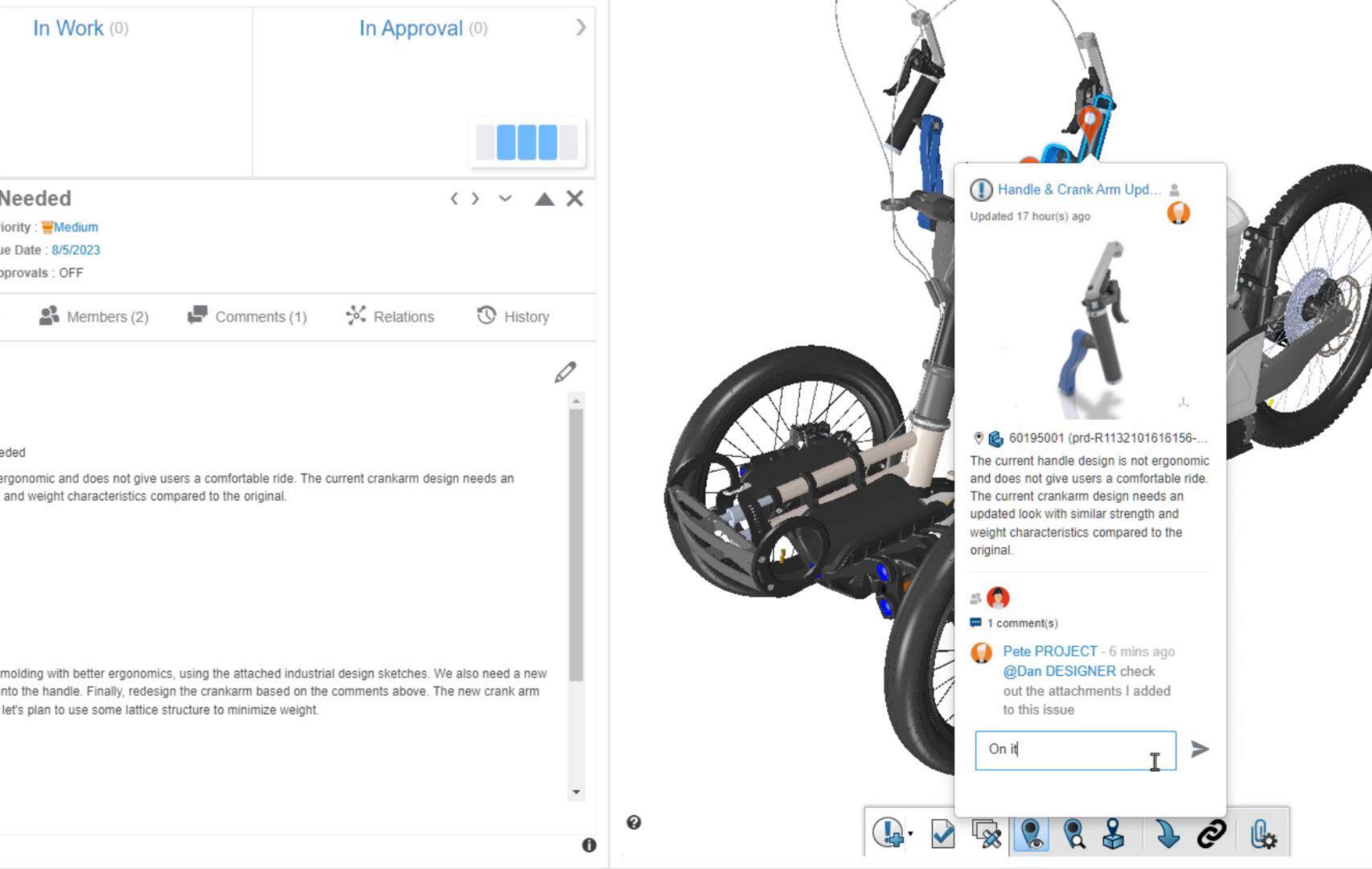
Create your own or choose from a selection of pre-loaded lattice cell Structure Systems

Lattice cells are editable in size, thickness and orientation









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