

3Design V13.100

Detailed Features

New Functions

- Add a tool to offset curves on objects
(Curve offset on object, Part module)
- Add a tool to create geodesic curves on objects
(Geodesic curve on object, Part module)
- Add a tool to create configurable clusters
(Custom cluster, Part module)
- Add a dedicated tool to create a pavé with multiple channels centered along curves
(Layered pavé, Part module)
- Add a dedicated tool to create regular pavés
(Regular pavé, Part module)
- Add a dedicated tool to create snow settings
(Snow setting, Part module)
- Add a dedicated tool to add positions to existing pavés in order to fill holes
(Fill holes in stone setting, Part module)
- Add a dedicated tool to create a pavé specific to the support object
(Implicit pavé, Part module)
- Add a dedicated tool to create concentric pavés
(Concentric pavé, Part module)
- Add a tool to create pavés along a curve
(Pavé along curve, Part module)
- Add a tool to create positions on a plane, surface, or along a curve or channel
(Create positions, Part module)
- Add a tool to create curves between positions
(Link positions, Part module)

- Add a tool to synchronize curves parametrically
(*Synchronize curves, Part module*)
 - Add a tool to easily place objects on positions created by pavé or cluster functions
(*Multiple positioning, Part module*)
 - Trim surface function has been completely reworked to provide better results
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Advanced Pavé

- Add a magnet mode for positions. Stones can be added or moved, and the entire network adjusts instantly, keeping the design balanced and fluid.
 - Legacy elastic mode has been removed and replaced by magnet mode
 - Diameter display now changes based on carat / diameter type
 - Modify cursors to reflect selection or addition of positions
 - Positions can now be moved using keyboard arrows during edition
 - Advanced pavé can now be opened directly from items that create positions
 - Frontier display has been simplified to reduce confusion
 - Modify move positions icon
 - Add a toolbar button to invert position selection
 - Add a toolbar button to clone positions
 - Remove automatic pavés tab (replaced by dedicated and improved tools)
 - Frontier can now act as a magnet for positions
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User Interface (UI)

- New or modified features are now highlighted
- Icons updated to match current 3Design display
- Field lists can now be resized directly in the interface

Rendering

- Add raytracing option for reflections
(Available only on RTX graphics cards or equivalent)
- Restore ambient occlusion
- Add bloom effect (intensity adjustable in 3D viewer settings)
- Remove former rendering system completely
- Restore different materials for inside faces of open surfaces
- Improve rendering performance
- Improve light source control (location, color, number adjustable)
- Improve visibility in 3Shaper during editing
- Add more default cubemaps
- Increase text readability in 3D scene
- Topology display can now use original material colors
- Improve grid visibility in Sketch (opacity adjustable in Open Snap dialog)

Stone Creation

- Stones can now be rotated directly in the function
- Rotation and translation steps are now available
- Stones can be used as planes or axes for compatible fields

Copy Face

- Improve selection on models with many edges
- Most computations are now performed on validation

IRIS Menu

- Faster right-click menu opening with complex models
 - Add Undo option on first row
 - Improve tooltip readability
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Modify Curves

- Extract Blend curve into a dedicated function
 - Extract Boolean curve into a dedicated function
 - Extract Extend curve into a dedicated function
 - Extract Trim curve into a dedicated function
 - Extract Simplify / refine curve into a dedicated function
 - Extract Reverse direction into a dedicated function
 - Extract Offset curve into a dedicated function

 - Add a tool to round curves
(Round the curves, Part module)

 - Improve curve manipulators for easier interaction

 - Remove Modify curve function
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Data Collection

- Add optional anonymous data collection
(Used only for metrics – details available in Compliance tab in F12 menu)
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Honeycomb

- Allow negative values
 - Add alternate volume projection for non-flat surfaces
 - Change default length values
 - Allow axis definition as projection direction
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Miscellaneous

- Add option in F12 menu to always enable “Keep original”

- Improve loading performance for complex models
 - Advanced 3D texture preview is now automatic
 - Original object is now displayed in Move / Rotate / Scale
 - Hide input curve during Trim curve operation
 - Change angle manipulator side in cluster setting
 - Reduce latency when selecting or moving points in 3Shaper
 - Allow creation of multiple rails in sweeping wizard
 - Update default claw values
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Bug Fixes

User Interface (UI)

- Restore Recent Files menu on macOS
 - Fix progress bar duplication
 - Fix UI issues when zoom window size is set to 0
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Translations

- Rename “Galbe” in Spanish
 - Fix missing tooltip translations in New Reference Plane
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Stability

- Fix crashes during recompute
- Fix crashes during file opening
- Fix crash when selecting all faces in Copy Faces
- Fix crash with Wedding Ring super action
- Fix freezes during Undo or recompute
- Fix crash with Loft
- Fix modeling issues after deleting support object
- Fix main menu freeze when opening non-existing file

Draft Kit

- Fix manipulator size display
 - Fix manipulator color display
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Rendering

- Fix edge display in 3Shaper
 - Fix startup issues with recent Nvidia drivers
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OBJ Export

- Fix export when performed along X axis
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File Opening

- Fix backup files not being removed
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Stone Creation

- Fix crash with certain stone sizes
 - Remove unnecessary fields
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Bezel Setting

- Fix bezel transparency display
 - Fix bezel display when using mirror
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Multi Pipe

- Fix incorrect results with specific curve orientations
 - Fix display in Braid mode
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Variable Channel

- Fix incorrect end margins
 - Fix crash when switching to adjustable space
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Create Animation

- Fix dialog resize display
 - Fix background color display
 - Fix camera reset when switching tabs
 - Fix video creation when install path contains spaces
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Offset Curves (Sketch)

- Fix curve preview on non-default planes
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Construction Tree

- Fix Undo on folders
 - Fix tree collapse on Reference object creation
 - Fix highlight when using Focus
 - Fix tree expansion after super action creation
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Cluster Setting

- Fix missing face on cluster setting
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Claws

- Fix incorrect warning messages
 - Fix claw reset when changing stone size
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Advanced 3D Texture

- Fix preview when changing values
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Magic Solid

- Fix error during Magic Solid recompute