



Rhino**ceros** for Architects & Engineers

CAD
Software
Direct.com

**Free-form Modelling
Software with
Grasshopper as tightly
integrated graphical
algorithm editor**

www.rhino3d.com

www.food4rhino.com

www.grasshopper3d.com



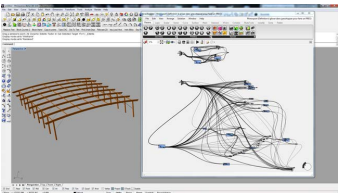
"A requirement for the design, development and realization of the complex morphology of the pavilion is a closed, digital information loop between the project's model, finite element simulations and computer numeric machine control. Form finding and structural design are closely interlinked."

ICD/ ITKE Research Pavilion University of Stuttgart 2011

Rhino and Grasshopper are heavily used for **freeform roofs, parametric facades, repetitive components, versatile building shapes or complex structures** in architecture and engineering.



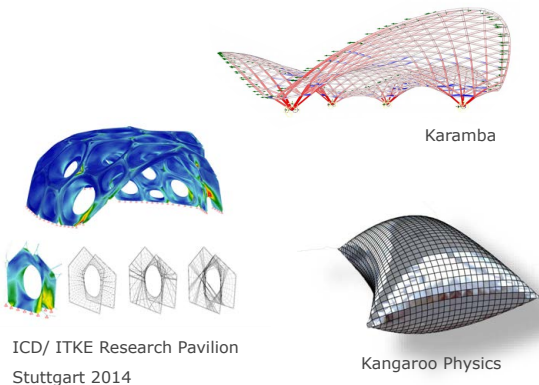
Design & Drafting



Rhino/ Grasshopper UI

Rhino in combination with Grasshopper is an ideal addition for all 2D and 3D applications in architecture and engineering in order to generate **complex associated geometries such as NURBS surfaces, meshes and solid models.**

Analysis & Simulations



Rhino and Grasshopper have a rich ecosystem of **plug-ins for structural analysis, simulation,** visualisation and fabrication of your design.

BIM & Documentation



VisualARQ, Flexible BIM Plug-in for Rhino and Grasshopper

Flexible BIM (building information modeling) features link geometry and object data and support import and export from and to the **IFC file format** to exchange Rhino models with other **AEC applications.**

Visualization & Animation

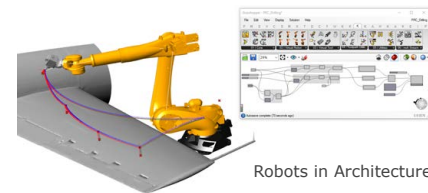


Many popular rendering and animation plug-ins work in Rhino. They help generating **high-quality images** of unparalleled realism and animating objects.



Render, V-Ray Plug-in

Fabrication & Construction



Robotic and Digital Fabrication, 3-D Printing, and Rapid Prototyping

Rhino and Grasshopper can be tightly integrated in any step of the manufacturing process.

