

PARAMETRIC DESIGN



As a Design and Build company, Octatube is at the forefront of realizing challenging architecture with an emphasis on high-quality applications of glass and steel. In order to engineer the often complex projects, a flexible technical software package is required. The often unique elements per project can then be modelled. Within Octatube, Inventor, an Autodesk modelling program, is used in combination with Rhinoceros (Rhino) and Grasshopper.

Grasshopper, a plug-in for Rhino, offers opportunities to play with geometry interactively and in a relatively simple way. By setting up the geometry parametrically, all properties remain continuously adaptable. One of the simplifications is the development of variants. Within this application a tool has been developed by Octatube which, after the variant study and optimization, can export the wire model to Inventor and then create all the parts required for production.