



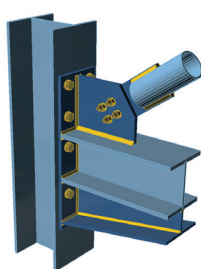
Steel connection design – reinvented

IDEA StatiCa introduces a novel way to design and check all steel connections and joints. With it, engineers can break the limits of standard connection design tools to save time and optimize the material usage. Clear pass/fail checks according to the code are available in minutes, as well as complete output reports.

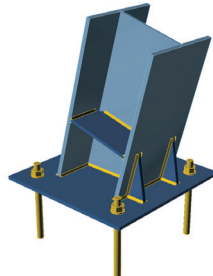


IDEA StatiCa Connection

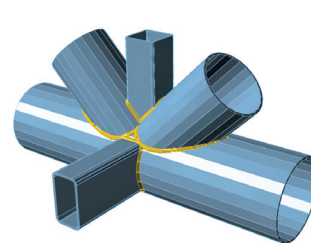
2D frames & trusses



Footings, anchoring



3D frames & trusses



IDEA StatiCa Connection can design all types of welded or bolted connections, base plates, footing and anchoring. It provides precise checks, results of strength, stiffness and buckling analysis of a steel joint. Bolts, welds, anchors and concrete blocks are checked according to the code. Templates for most-used connections are available as well as wide range of predefined hot rolled and sheet welded members.

ANY TOPOLOGY

No limits in how many connections there are in the joint, what is their type and how they are put together. Shape is defined by project requirements, not by software capabilities.

ANY LOADING

All forces are analyzed. The overall check of the joint takes into account interactions between all the beams and connections. Engineers stay on the safe side all the time.

IN MINUTES

The whole design and check process is kept short enough to be a part of everyday work of structural engineers and fabricators all around the world.



Work with data from other programs

IDEA StatiCa Connection

FEA software

Design your joint from scratch or build on geometry and loading imported from SCIA Engineer, AxisVM, RFEM, Robot, Revit, SAP2000, ConSteel, ETABS, Advance Design, STAAD.Pro

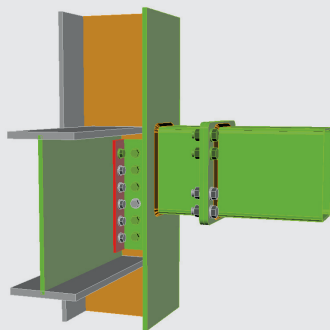
CAD software

Take advantage of integration with Tekla Structures and Advance Steel to provide workshop drawings and support manufacturing process.

IDEA StatiCa Connection provides

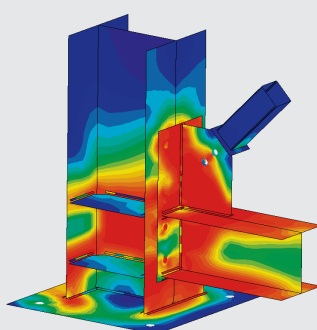
Overall check

According to various national design codes



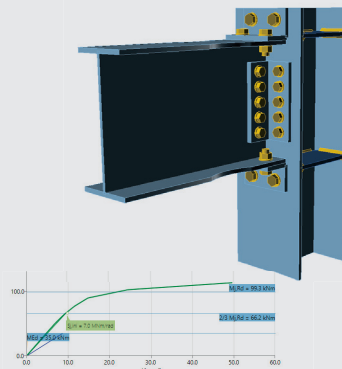
Stress/strain analysis

FE model of steel joint is composed automatically



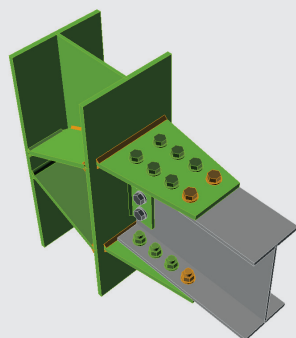
Stiffness analysis

Rotational or transversal stiffness of any connection



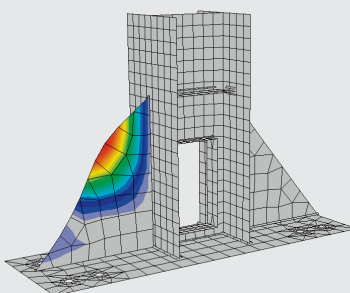
Member Capacity Design

Seismic check of non-dissipative connections



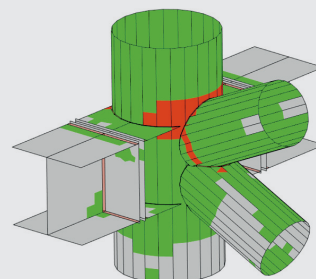
Buckling analysis

Local buckling effects and critical load factors

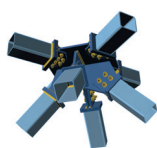


Design Joint Resistance

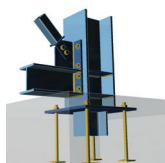
Maximal possible loads, reserve in joint capacity



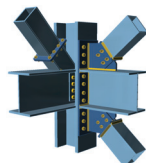
Designed by IDEA StatiCa Connection



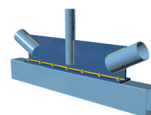
Stadium roof



Warehouse



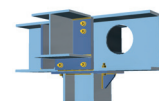
Industry hall



Pedestrian Bridge



Power plant



Stadium roof

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