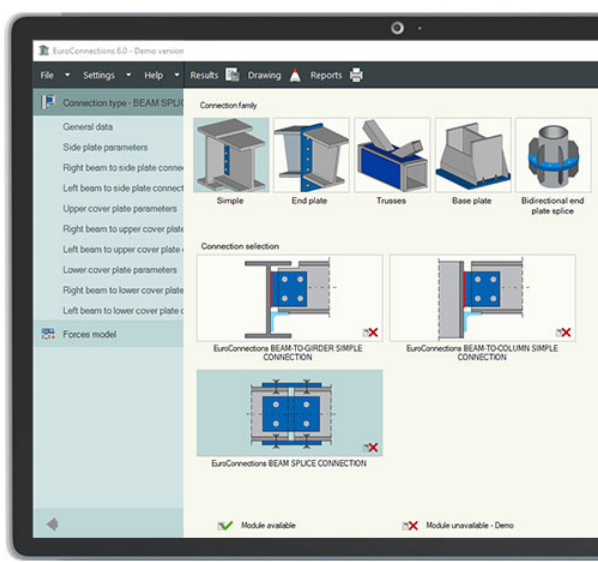
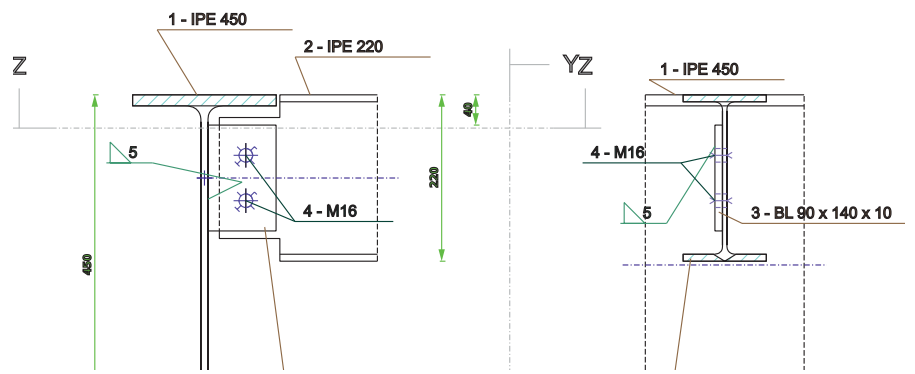


EuroConnections

A collection of programs for steel connections design.



Design and verify the capacity of typical uniplanar frames & lattice connections in steel structures according to PN-EN 1993-1-8:2006 standard. Welded or bolted connections in various joints types.

Possibility to create a model for a rigid, semi-rigid or nominally pinned joint. Various additional connection components can be used, depending on specific connection type: side plate, fin plate, flange cover plate, landing cleat, end plate, base plate, stiffener plate, haunch, shear nib, gusset plate, etc.

The program operates in a standalone mode, or as a design module for steel connections calculations in ArCADia-RAMA program.

The program creates a bill of materials for connectors and other components used in connection.

The program creates an advanced and dynamic sketch of the designed connection model, which can also be saved to an editable file in the DXF format. Reports with verification result in RTF or PDF format can be created in four different detailed levels with the option of customizing their scope by the user.

The following types of connections are supported:

SIMPLE group:

- BEAM-TO-GIRDER simple connection +DXF
- BEAM-TO-COLUMN simple connection +DXF
- BEAM SPLICE connection +DXF

END PLATE group:

- BEAM-TO-COLUMN END PLATE connection +DXF
- BEAM-TO-BEAM END PLATE connection +DXF

TRUSSES group:

- TRUSS GUSSET PLATE connection +DXF
- WEDLED TUBULAR TRUSS node +DXF

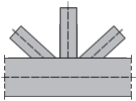
BASE PLATE group:

- I-BEAM COLUMN BASE +DXF
- DOUBLE-BRANCH COLUMN BASE +DXF
- RECTANGULAR HOLLOW SECTION COLUMN BASE +DXF
- CIRCULAR HOLLOW SECTION COLUMN BASE +DXF

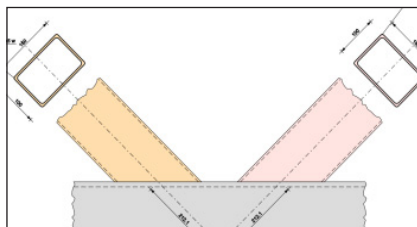
BIDIRECTIONAL END PLATE SPLICE group:

- END PLATE I-BEAM JOINT
- END PLATE DOUBLE-BRANCH PROFILE JOINT
- BIDIRECTIONAL END PLATE SPLICE FOR RECTANGULAR PIPES
- BIDIRECTIONAL END PLATE SPLICE FOR ROUND PIPES

WELDED TUBULAR TRUSS node

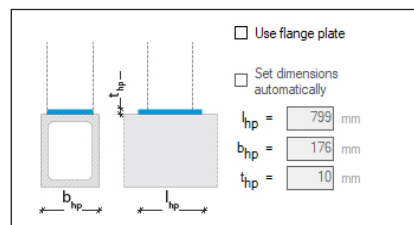


Connection type WELDED TUBULAR TRUSS node, of rectangular hollow sections, verification for sets of uniplanar internal forces in cross-section, or the full bearing capacity of members.



General:

- advanced and dynamic sketch of the designed connection model in an editable DXF format, which includes bill of materials
- possible cross-sections for the chord are: rectangular / square tubes or C-section tubes
- possible cross-sections for the vertical and diagonal bars are: rectangular / square tubes or C-section tubes
- positive, negative or zero node eccentricity is allowed
- calculations can be performed for T, Y or K, N and KT type of joints, with gap or with overlap
- if more than one bar converges at the joint (X-, K-, N- or KT-joints) - their axes should converge in a single node point



Joint reinforcement plates:

- for a chord made of a tube section, it is possible to use: reinforcing flange plate (on the wall of the chord to which the braces are connected) or reinforcing side plates