**EC3 Connections** is one of the first European software products that could design steel connections according to Eurocode 3.

**EC3 Connections** released in 1996 along with **INSTANT steel**, it has become a valuable tool for hundreds of structural engineers.

Detailed design of the connection with the assistance of multiple views, including 3D and drawings.

Interactive messages guide the user to create a valid connection design according to Eurocode 3.

Automatic creation and export of connection drawing in DXF format.

Detailed and summary results per connection and loading and automatic creation in MS Word format, with references to Eurocode 3 paragraphs.
The EC3 Connections software implements the design and verification rules for steel connections according to Eurocode 3 (EN 1993-1-1:2005, ENV 1993-1-1:1992).

The following connection configurations are supported:

**Beam to column (semi-rigid)**
- Hot rolled and welded I or H profiles.
- Stiffened using haunch, stiffeners, supplementary web plates, supplementary backing plates.
- Welded, bolted.

**Beam to column (pinned)**
- Hot rolled and welded I or H profiles.
- Stiffened using haunch, stiffeners, supplementary web plates, supplementary backing plates.
- With angle cleats or end plates.

**Apex (semi-rigid)**
- Hot rolled and welded I or H profiles.
- Stiffened using haunch.
- Bolted.

**Beam splice (semi-rigid)**
- Hot rolled I or H profiles.
- Stiffened using stiffeners.
- Bolted.

**Truss node**
- Single and double angle cleats, equal and unequal.
- Rectangular, square and circular hollow beams.
- K, T, Y and KT configurations.
- Welded, bolted with gusset plate.

**Column base (single axis bending)**
- Fixed, pinned.
- Multiple anchor configurations (2, 4, 6, 8 or 10).
- Multiple stiffener configurations.

Examples 3D views of connections

More than 25 different connection types (moment, simple, truss, base, etc) and 120 different configurations in total can be designed by EC3 Connections.