STEEL Connections provides a modern, hierarchically organized interface in which the user can easily and completely define steel connections conformant to the AISC and Eurocode 3 regulations.

The interactive interface provides immediate error checking and real-time design results. The comprehensive reports provide options for summary PASS/FAIL results up to extremely detailed, step-by-step calculations for every verification performed.
Innovation and Expertise

In the domain of steel structures, we deliver advanced IT products and quality services for two decades.

CCS, renowned for its prestige and credibility, has highly qualified personnel with an accumulated expertise which originates from multiple sources such as:

- Design, development, support and continuous improvement of structural analysis software, which are used in hundreds of design offices.
- Implementation of thousands of studies for steelwork projects of all types and sizes, which have been erected in Greece and abroad.
- Installation and support of advanced software systems to automate the design and management of production, in more than a hundred steel fabricators.
- Implementation of projects for the certification of new products and production of industry specific software for technical support of structural systems.
- Collaboration with European institutes of steel structures such as CTICM (France) and SCI (UK).
- Perennial collaboration with Greek Universities, such as Steel Structures Laboratory of NTUA in experiments and specialized issues of design codes.
- Participation in national and European research projects and production of numerous papers for publication in journals and conferences.
- Design and development of dozens of special applications for large European organizations that address specific engineering issues.

Apex
Moment resisting connection with end-plate and haunch.

Beam splice
Same size beam splice with bolted cover plates.

Beam to column with end-plate
Moment resisting connection with end-plate and haunch, supplementary web plates and transverse stiffeners.

Beam to column welded
Shear and bending resisting connection with haunch, supplementary web plates and transverse stiffeners.

Beam plate fixed
Uniaxial bending and shear resisting column base plate with horizontal stiffeners and shear key.

Beam plate pinned
Axial and shear force resisting pinned base plate.
Software for verification of steel connections according to AISC and EC3

Beam to girder depth
Same serial size beam to girder with welded web shear tab and bolted flange plates.

Beam to girder equal depth directly welded
Same serial size beam to girder with welded web shear tab and directly welded flanges.

Beam to girder unequal depth
Different serial size beam to girder with welded web end plate and bolted upper flange plate.

Beam splices bolted
Splicing of different serial size beams using bolted web and flange plates with filler plates.

Beam splices welded
Splicing of different serial size beams using welded web and flange plates with filler plates.

Beam to column with end plate
Fully restrained moment connection with end plate stiffeners, web doubler plates and transverse web stiffeners.

Beam to column with shear tab and bolted flange plates
Fully restrained moment connection with shear tab and bolted beam flange plates, web doubler plates and transverse web stiffeners.

Beam to column with shear tab and welded flange plates
Fully restrained moment connection with shear tab and welded beam flange plates, web doubler plates and transverse web stiffeners.

Column splices
Splicing of different serial size column using bolted flange and web plates with filler plates.

Base plate
Column base plate with anchor rods and shear lug.
Computer Control Systems S.A. (CCS) was established in 1987 in Athens, Greece. Its initial legal form was Ltd and in 1992 it was reformed to S.A. (shareholding company). Our main business is the production of software and the provision of services. The extensive expertise of the sectors in which we operate, combined with highly skilled scientific and technical personnel and consistent after-sales support, ensure customer satisfaction and long-term collaboration.

CCS has a strong commitment for quality in the design, development and support of its products and is certified with ISO 9001 since 1999 for "Design / Development Installation and support of Information Technology products and solutions and elaboration of applied mechanics studies".

The Engineering Division of CCS is unique for its commitment in serving the steel industry, and has gained an excellent reputation for the high level of expertise, the innovation in software, and the quality of services and engineering studies. Hundreds of structural engineers, design offices, contractors, steel suppliers and fabricators have chosen to rely on our services in order to achieve superior productivity and competitiveness.