

Really user friendly and versatile! Design your connections the way you truly want them to be!

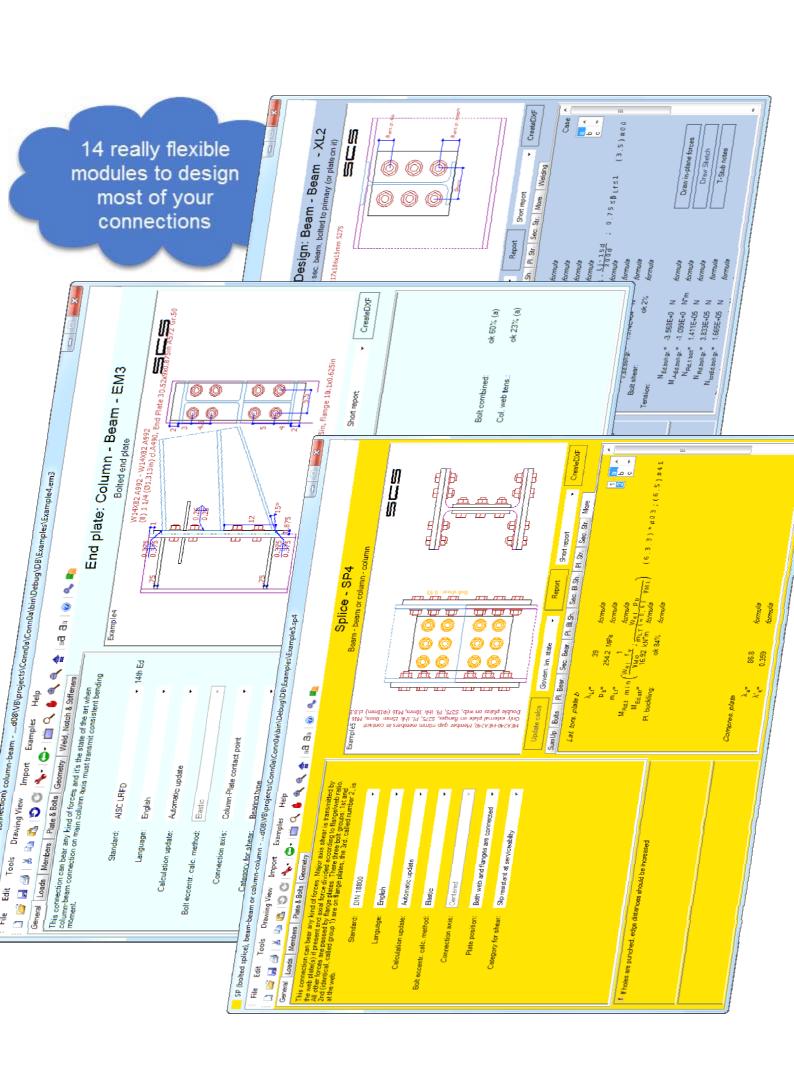
"We have been using SCS connection software since 2013 and have found major advantages in its flexible approach to seek out an efficient connection design solution. A key benefit alongside the complete range of international code checks which the software can deliver is the smart appreciation of each steelwork codes approach. We continue to use the software as a key tool in our extensive connection design process."

Andy Gleaves, Director, William Hare (UK, India)

among customers:
TECHNIP
FLUOR
DANIELI
W. HARE
CB&I
HIDADA

"SCS is a great and unique software for connection design."

Fuguo Zhou, PE, PSDesign (USA)



### REPORT EXTRACT EXAMPLE:

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Beam bearing
Case: a
Tot. ref. thk = 0.42 in
 \Phi R_{\text{n,h,bw}} = 35.52 \text{ kips } = (0.75) * \min(1.5 * (1.156(in)), 3 * 0.625(in)) * 0.4201(in) * 65(ksi), \Phi (=
0.75)min(1.5l_c tF_{II}, 3.0 dtF_{II}) (J3 - 6b)#20
 R_{u,h,bw} = 22.34 \text{ kips Bolt } 1
 \Phi R_{\text{n,v,bw}} = 27.84 \text{ kips} = (0.75) * min(1.5 * (0.9063(in)), 3 * 0.625(in)) * 0.4201(in) * 65(ksi), \Phi (= 0.75) * min(1.5 * (0.9063(in)), 3 * 0.625(in)) * 0.4201(in) * 65(ksi), \Phi (= 0.75) * min(1.5 * (0.9063(in)), 3 * 0.625(in)) * 0.4201(in) * 65(ksi), \Phi (= 0.9063(in)), 0.4201(in) * 0.4201(in) *
 0.75)min(1.5l_c tF_{11}, 3.0 dtF_{11}) (J3 - 6b)#20
 R_{u,v,bw} = 20.85 kips Bolt 2
Beam web bear h.: ok 63%
Beam web bear v.: ok 75%
 Beam stress
Case: a
\Phi P_{\text{n.sec}} = 458.1 \text{ kips} = (0.9) * 50(\text{ksi}) * 10.34(\text{in}^2), \Phi (= 0.9) F_{\text{v}} A_{\text{g}} (\text{J4} - 6) #20
 P_{u.sec} = 3 \text{ kips } P_u
Axial: ok 1% \frac{|P_{u,sec}|}{\Phi P_{n,sec}}
\Phi M_{n,maj,sec} = 515.9 \text{ kips*in } = (0.9) * \min(50 (ksi) * 15.54 (in^3), 65 (ksi) * 8.819 (in^3) * 1), \Phi_b (= 1.50 (ksi) * 1.00 (ksi
0.9)min(F_yZ_x, F_u\frac{A_{fn}}{A_{fg}}S_x) (F2 - 1)(F13 - 1)#20
M_{u,maj,sec} = 192.4 \text{ kips*in } |V_{u,maj} * ecc. + M_{u,str}|
Bending str: ok 37% \frac{M_{u,str,sec}}{\Phi M_{n,str,sec}}
```

# Download the trial version at www.steelconnectionstudio.com or at www.scs.pe

Check out prices on the website:

- full working monthly lease versions starting at **USD 189**
- full working Permanent versions starting at USD 1,179

# EUROCODE AISC LRFD + ASD (13<sup>th</sup> and 14<sup>th</sup> ed.) BS5950 CSA S16 LSD IS800 DIN 18800 NTC 2008 SNiP

## **ADVANTAGES:**

- Save time and improve the precision of results directly importing design loads
   from FEM software programs like STAAD PRO and SAP2000
- Exploit SCS APIS to create macro to import loads from other software and to create routines to match your workflow
- Import joint geometry from Tekla Structures
- Export your joint design to Tekla Structures
- Contemporarily analyze up to **499** load combinations for your joints
- Design for the full range of loads: <u>axial, strong and weak axis, bending</u> moments, torsion....
- Enjoy a full report in Microsoft Word that displays all the formula with the elegant Equation Editor format
- Quickly re-use your library of joints recalculating with just one click according to a different **standard** (large engineering companies love this!)
- Enjoy the vast library of connections
- Perform advanced design using stiffeners, slip resistant connections, web doublers, false flanges, notches, corner clips and many more options...
- Quickly get confident with software checking results against your Excel spreadsheets and then pass to SCS to exploit productivity tools and advanced design options
- Impress your customers with **efficient** designs and **elegant** reports

## **BOTTOM LINE:**

- Qualify for world class jobs thanks to the powerful SCS engine and a wide range of international codes
- Improve your efficiency and help your balance sheet quickly performing connection design and interfacing with other BIM software