FAST & ACCURATE MODELING

· IMPROVE QUALITY

· REDUCE THE TIME

DS TECH

3D Design & Engineering

DSTECH is the company specialized in designing structural and plant-related building. We perform all phases of step in design from BASIC to SHOP DWG, especially, in steel, chemical, power generator and all plant-related system in detail.

We have retained the latest technology of designing plant such as 2D CAD and 3D CAD. Based on IT technology, our company produces automative out-put, managing efficient revision, minimizing errors through BIM system which lead satisfiable profit.

We are continuously working on developing new technology and adopting advanced skill.
DSTECH promise our client to give the best services and satisfaction.

CEO *Park, Chun Duk*

BASIC AND DETAIL DESIGN
Work with experts in plant designing over 10 years of experiences.
All performances in 3D CAD BASIC and DETAIL designing are in record.
Implementing SK E&C TEKLA system (3D CAD)
Implementing POSCO E&C TEKLA system (3D CAD)

VALUE ENGINEERING
Support value engineering from our many years of experiences

SHOP DRAWING
Affluent World-Wide experiences in many years in steel structure shop drawing
Capability checking errors, diagnosing problems and Ability solving self-problems in BD/DD
Processing High-volume workload due to operating branch office in China

AUTOMATIVE DESIGN
Operating technology developing IT group
Implementing automative plant-related designing

DS COMPONENT

Now TeklaStructures Modeling is EASY,
FAST,
and HIGH QUALITY.

Automative program of artificial intelligent connection
DS COMPONENT improves your work dramatically.

- Apply to 5 common connections
- Composition of 10 component modules

COMPOSITION OF DS COMPONENT

CONNECTION NAME	COMPONENT	USAGE
SPLICE CONNECTION	J77	Splice
	J771	Column splice
	J772	Splice+Bracket
	J773	Splice+Plate bracket
END PLATE CONNECTION	J774	End plate
SHEAR CONNECTION	J781	Single shear
	J782	Double shear
BRACE CONNECTION	J791	Bracing
	J792	Bracing (double shear)
GIRTH & PURLIN CONNECTION	J802	Girth / Purlin

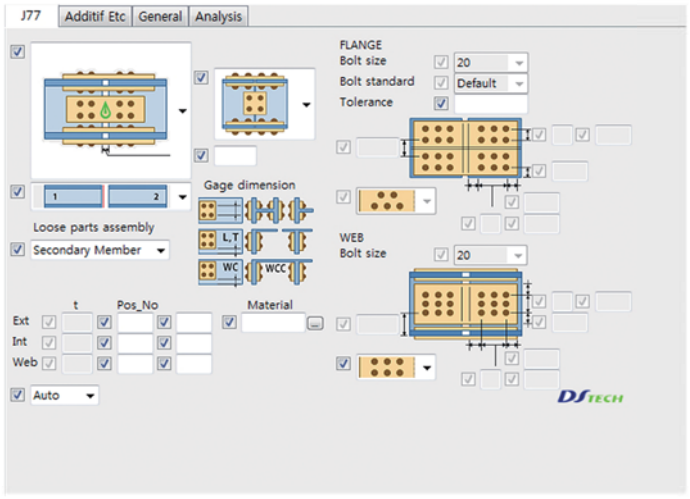
FEATURES / ADVANTAGES / EFFECT

FEATURES	ADVANTAGES	EFFECT
When interference occurs, check interferences and automatically adjust connection	Decrease clash members	Improving quality
	Reduce work time	Reducing schedule
Modeling use of standard database	Achieving accurate modeling	Improving quality
Depends on member sizes, automatic forming connection is possible	Reduce work time	Reducing schedule
Automatic altering when member sizes are changed	Achieving accurate modeling	Improving quality
	Reduce work time	Reducing schedule

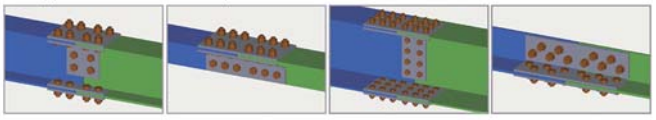
SPLICE CONNECTION

J77 -Splice

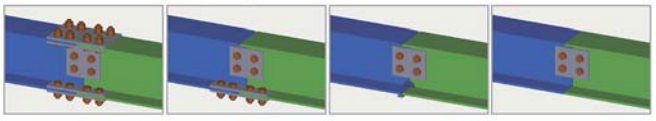
- This component is making splice joint between steel members and available to Girder, Column, Brace.
- Available to use Built-Up T , Built-Up C, as well as H-Beam and CT-Beam and Angle.
- Available to user's needs such as upper and lower bolt type, upper weld and lower bolt type, upper and lower weld type, and two-sided shear joint.



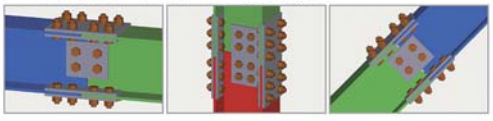
▼ Applied to the various shapes of member

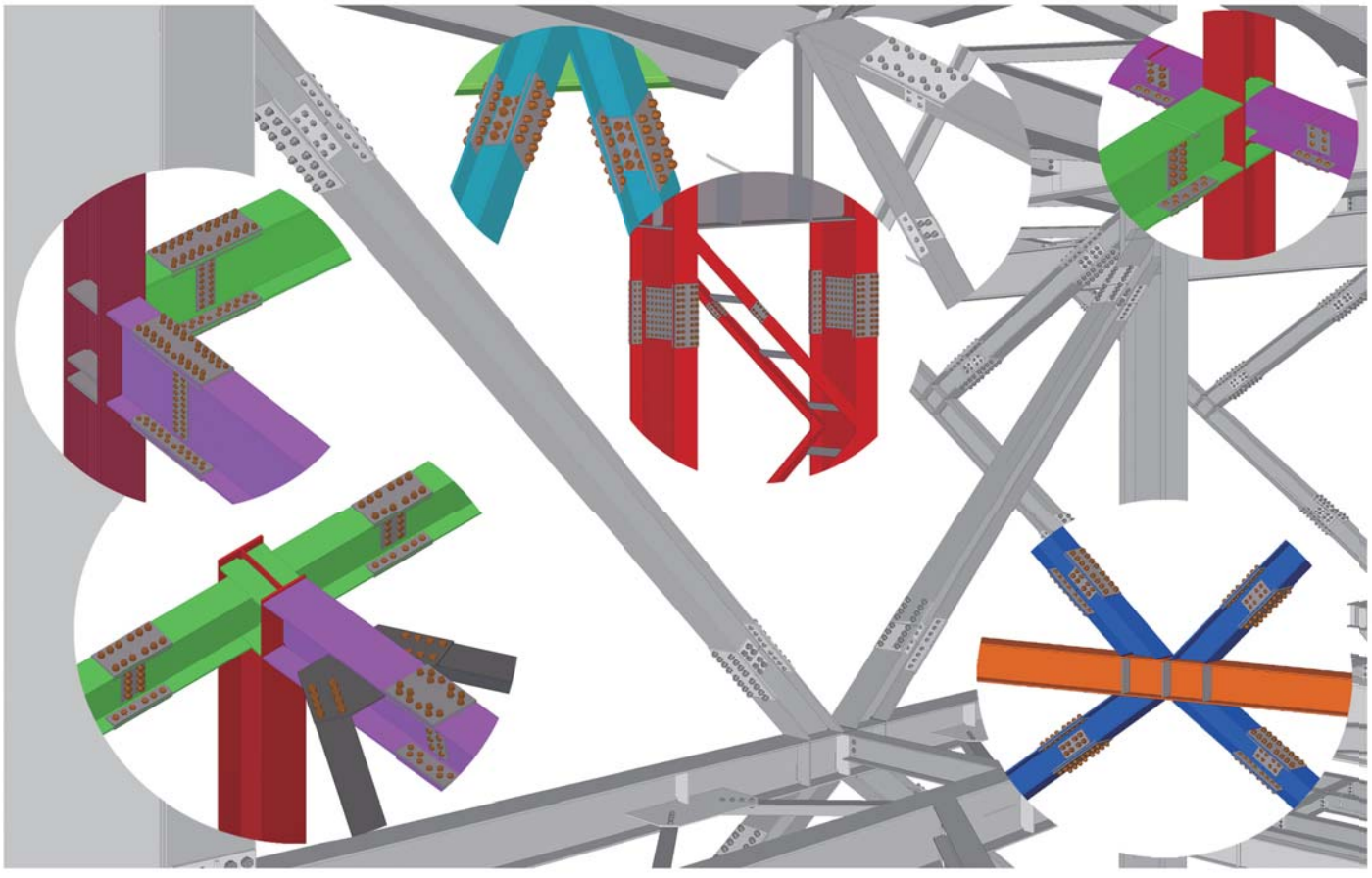


▼ Alternate to variety of splice type



▼ Girder, Column, Brace are separately set

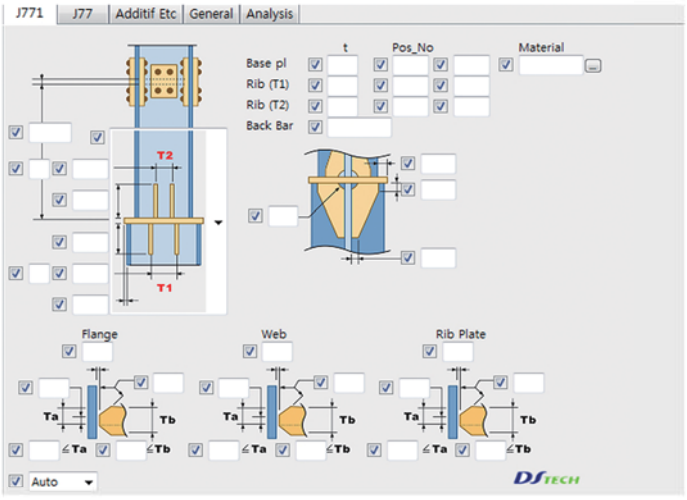




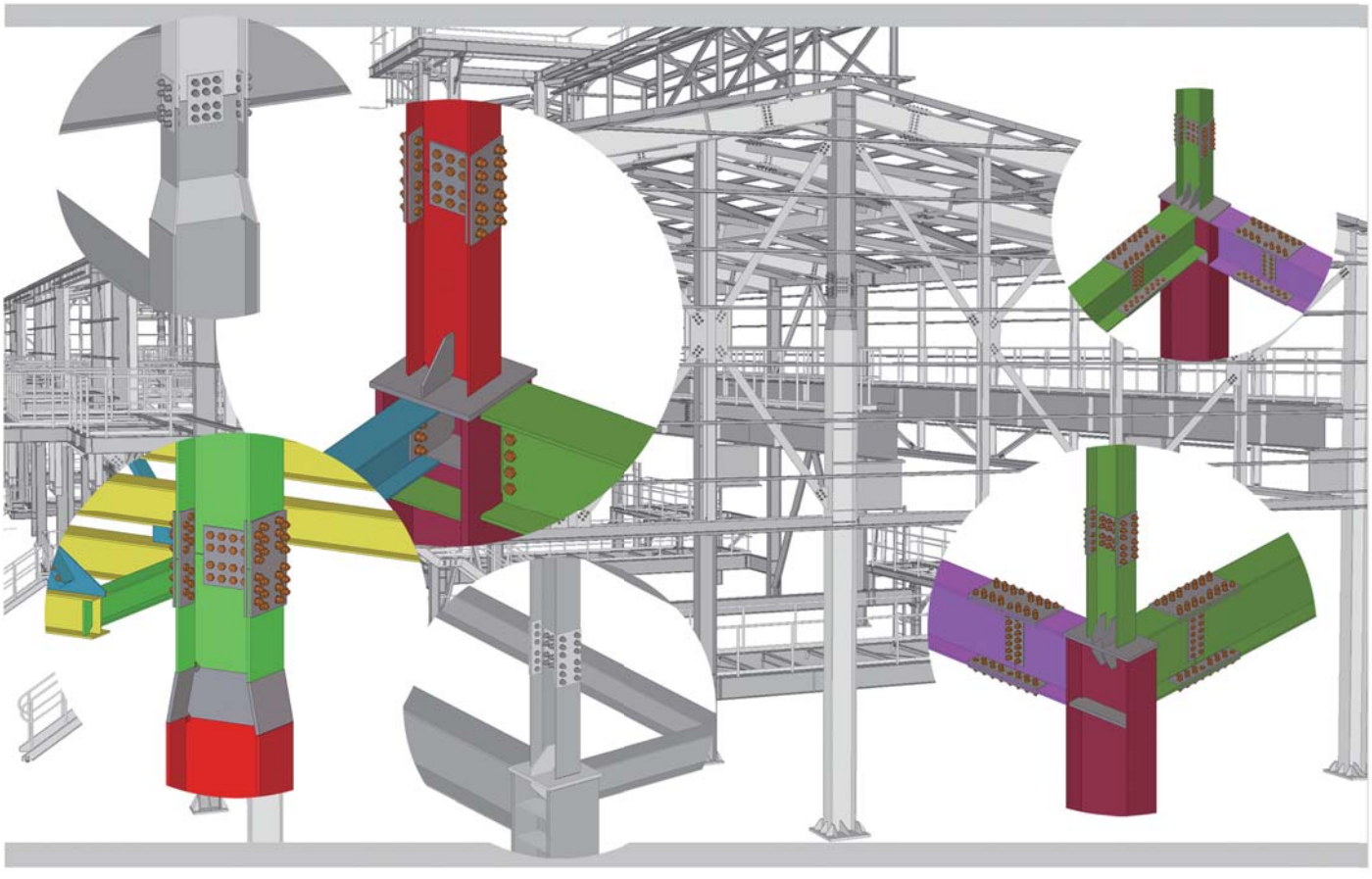
SPLICE CONNECTION

J771 -Column Splice

- This component is making joint between different steel members of column.
- User can choose two types between base plate and connecting the upper and lower type which is using Flange plate and web plate.
- Bracket Height can be adjustable.



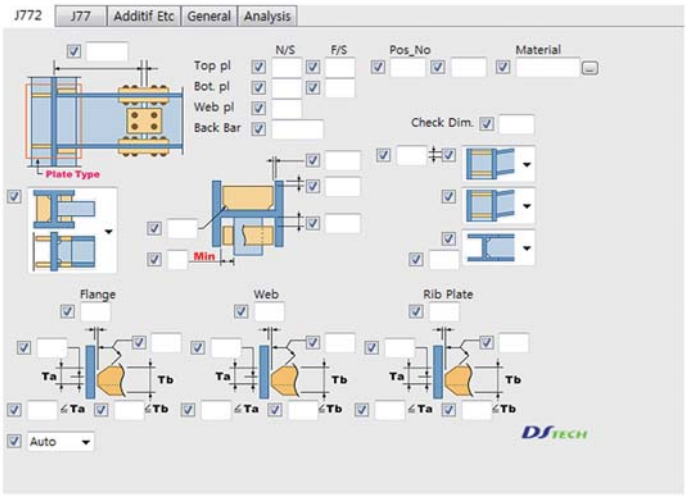
▼ Connection of different Column size



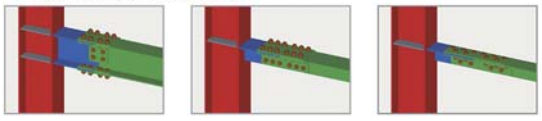
SPLICE CONNECTION

J772 -Splice + Bracket

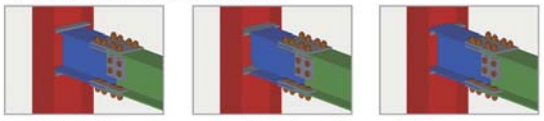
· Automatic produce of joint between bracket and splice.
· Applicable to both Column to Beam and Beam to Beam.
· Type of stiffener can be set and available to apply angle of H-Beam, CT-Beam, and Angle.



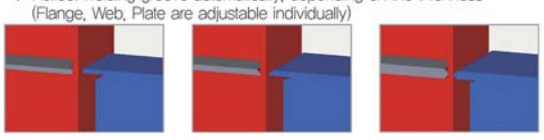
▼ Automatically produce Bracket

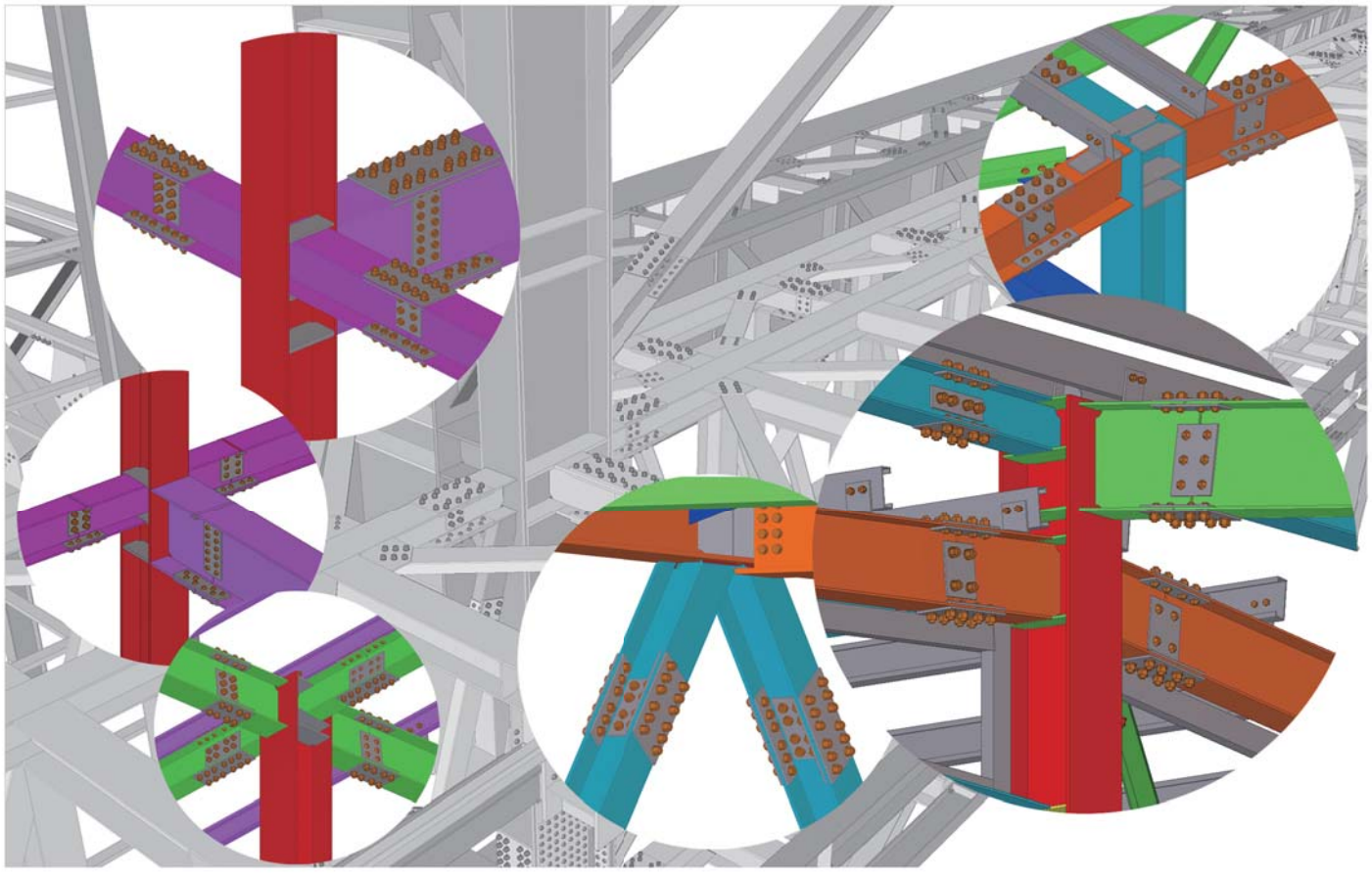


▼ Various type of stiffener for Column



▼ Reflect welding groove automatically, depending on the thickness
(Flange, Web, Plate are adjustable individually)

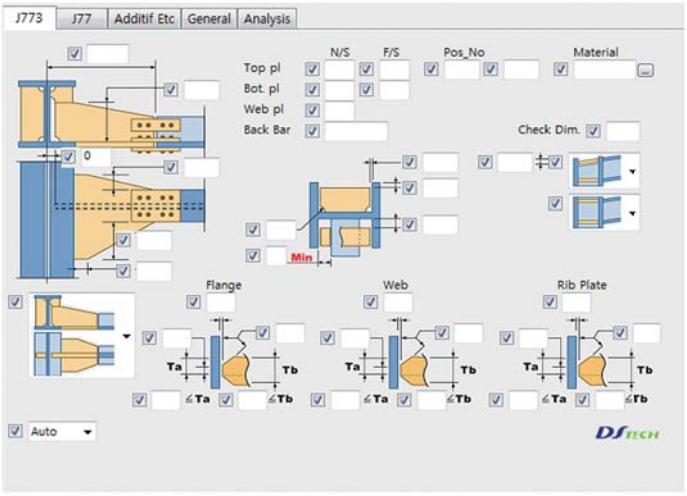




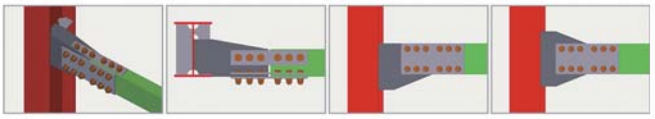
SPLICE CONNECTION

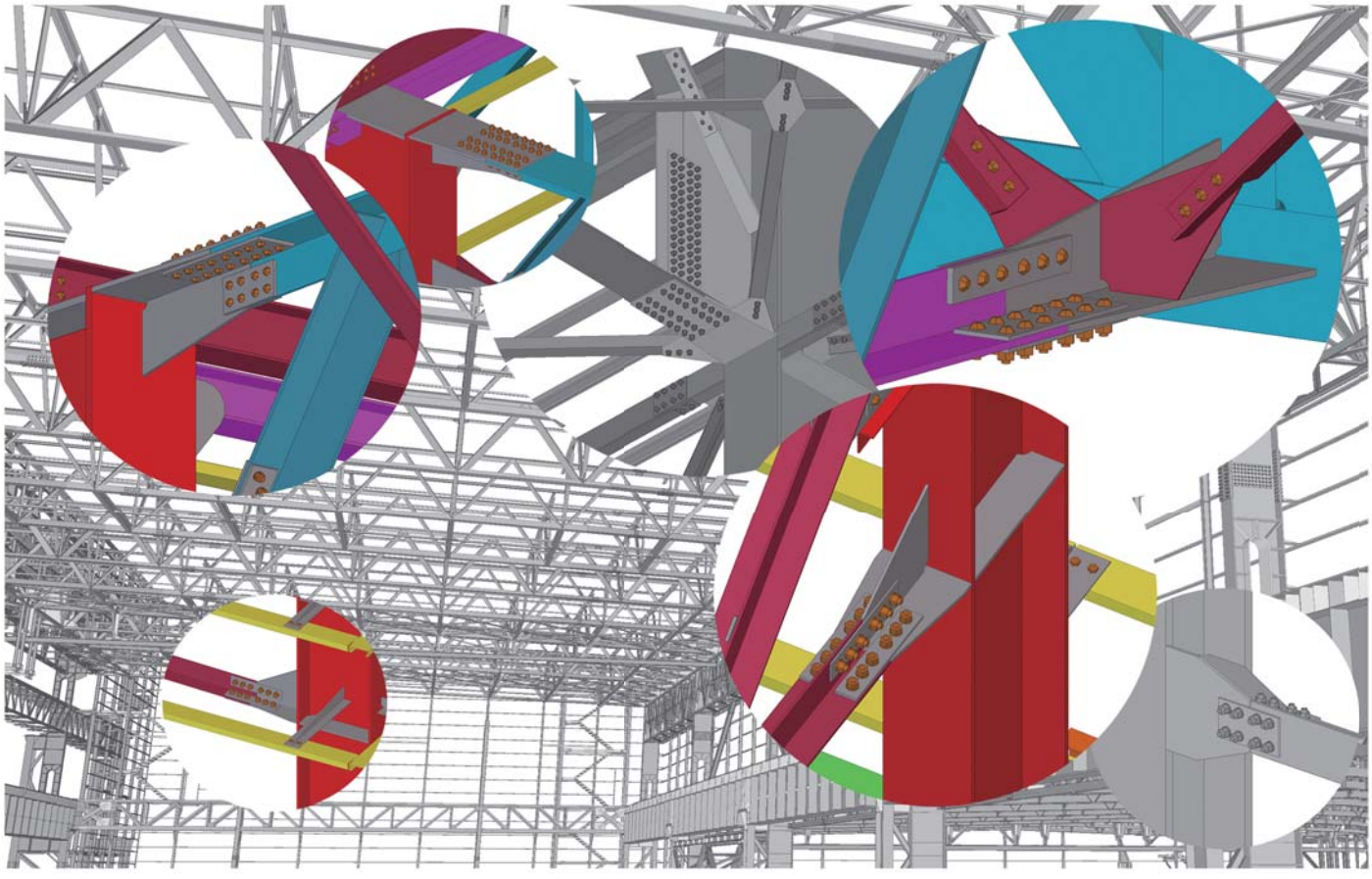
J773 -Splice + Plate Bracket

· Automatic produce of joint between plate bracket and splice.
· Available to apply CT-Beam.
· Bracket length can be adjustable.



▼ Automatically produce Plate Bracket

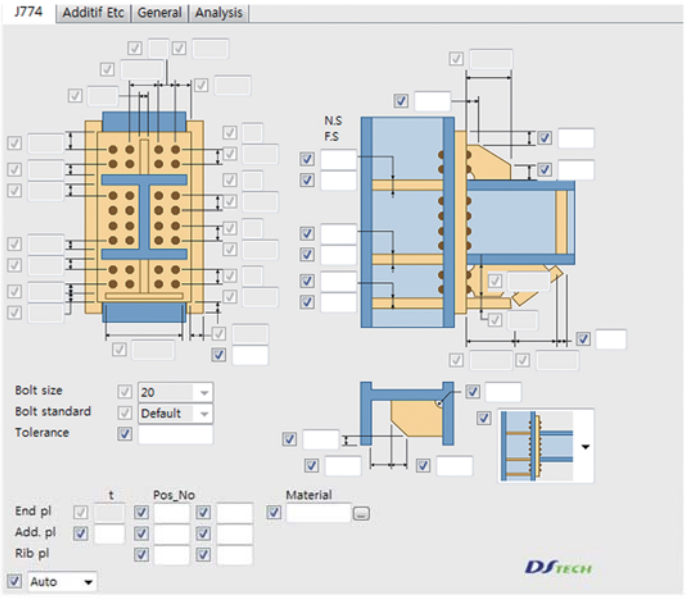


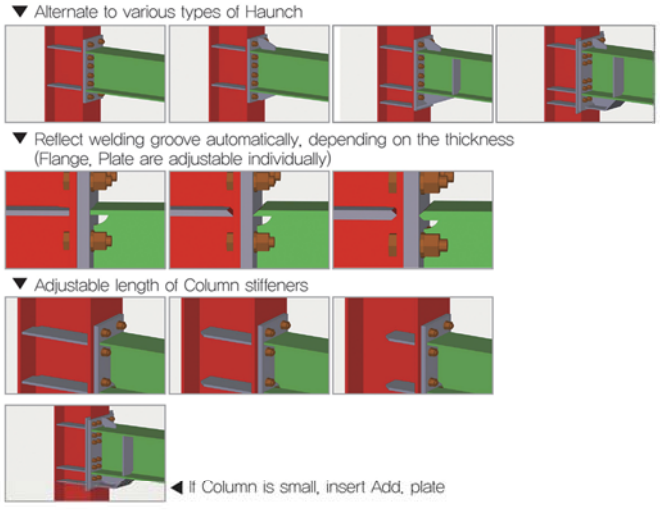


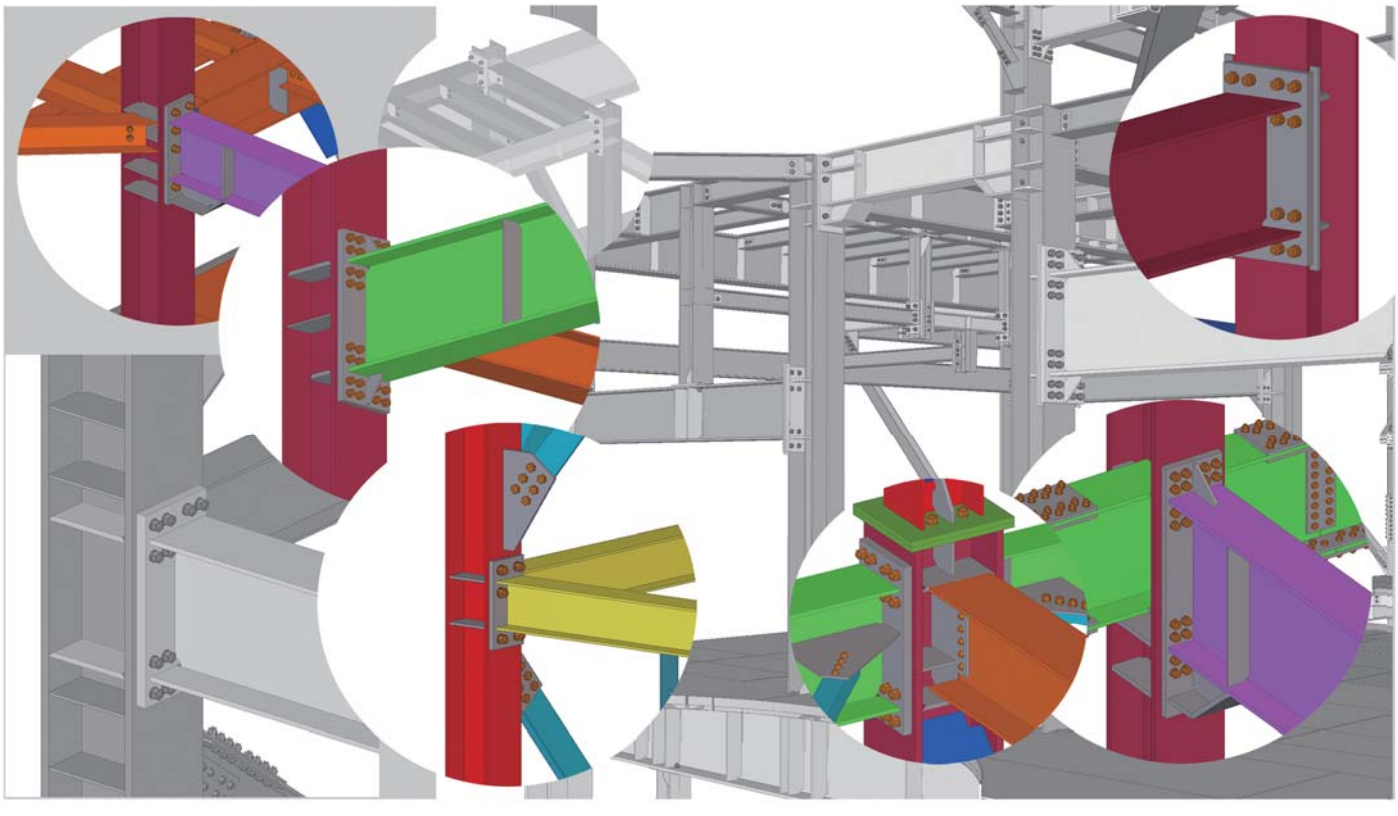
END PLATE CONNECTION

J774 -End Plate

- Applicable to H-Beam that is a component making End Plate Joint between column and beam.
- User can choose haunch such as no use of haunch, upper and lower haunch type, upper haunch type, lower Haunch type, etc.
- Available automatically be inserted stiffener and add. Plate.



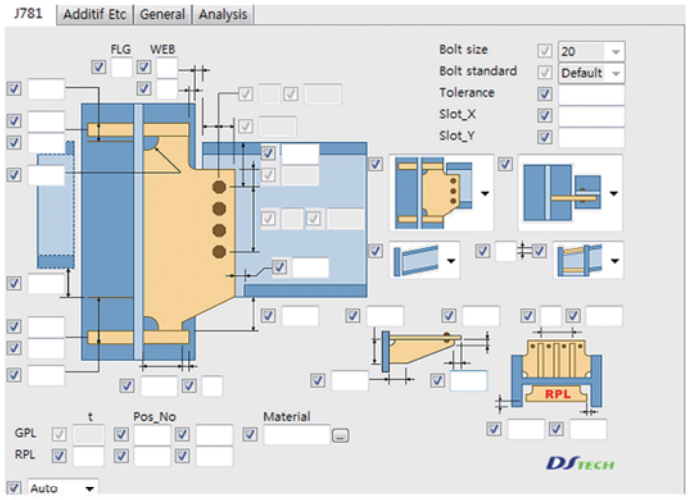




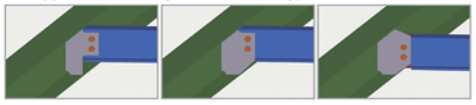
SHEAR CONNECTION

J781 -Single Shear

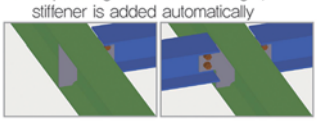
- Applicable to joint shear between steel member and joint of Column to Beam, Beam to Beam.
- Able to joint single shear.
- For user's convenient, any type is available such as general shear joints, cutting the bottom flange, cutting the top and bottom flange, and field welding.



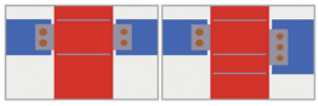
▼ Applied to a variety of connection type

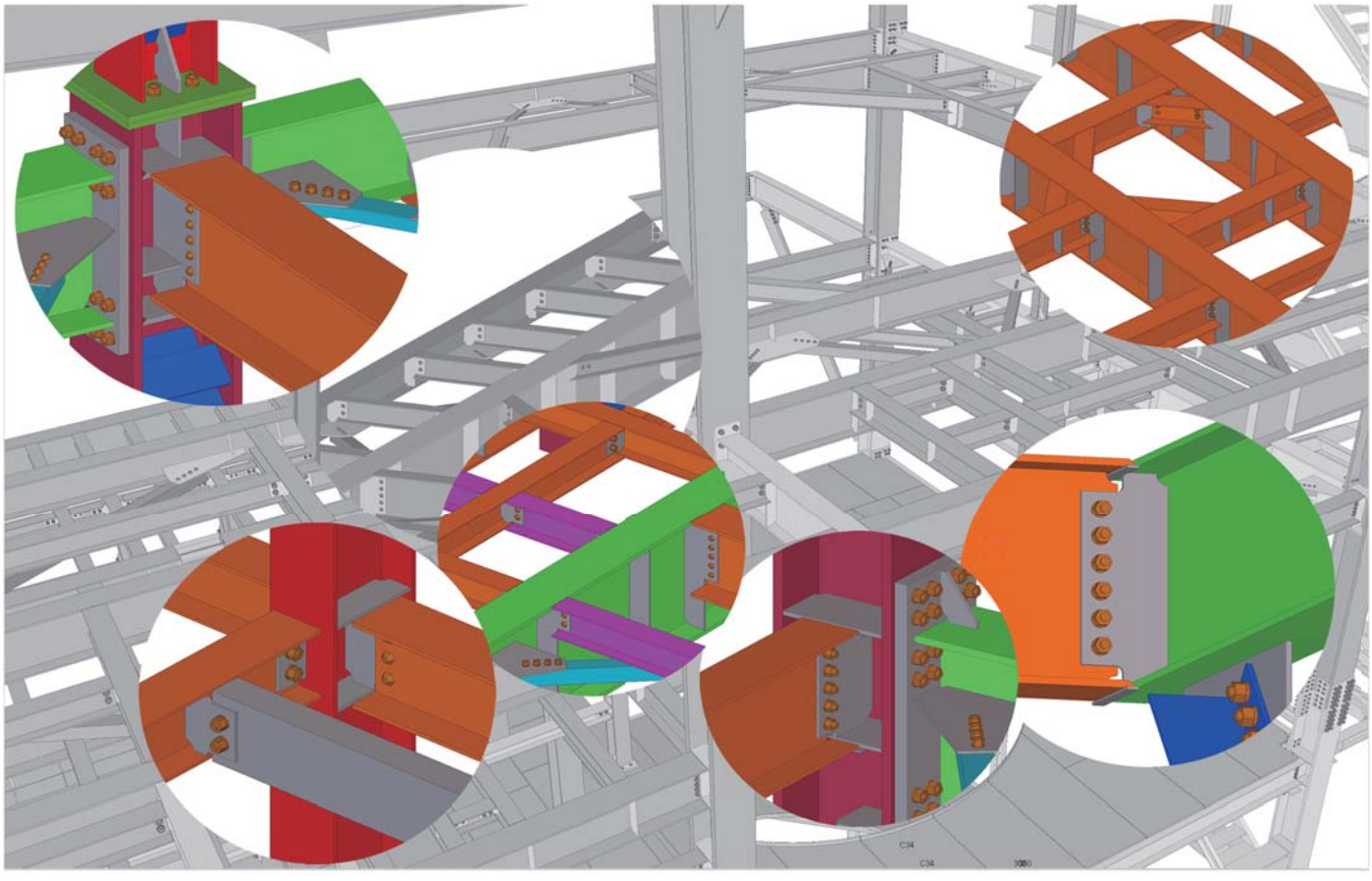


▼ Depending on the Beam height, stiffener is added automatically



▼ The presence of stiffener is automatically set

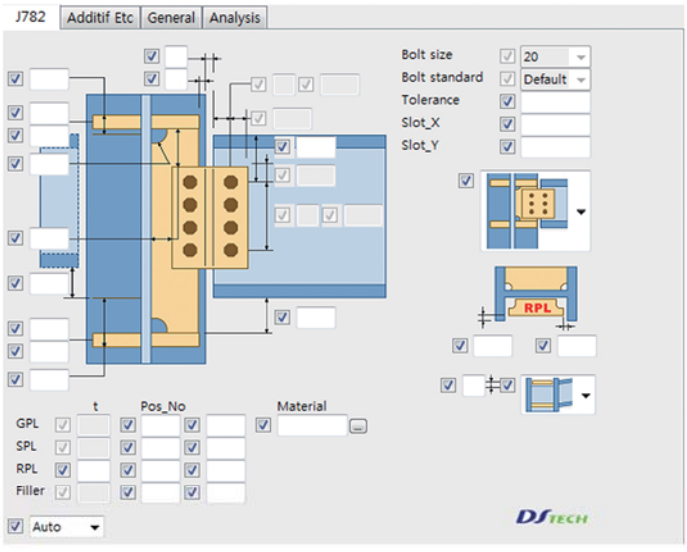


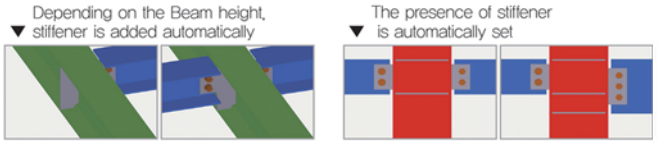


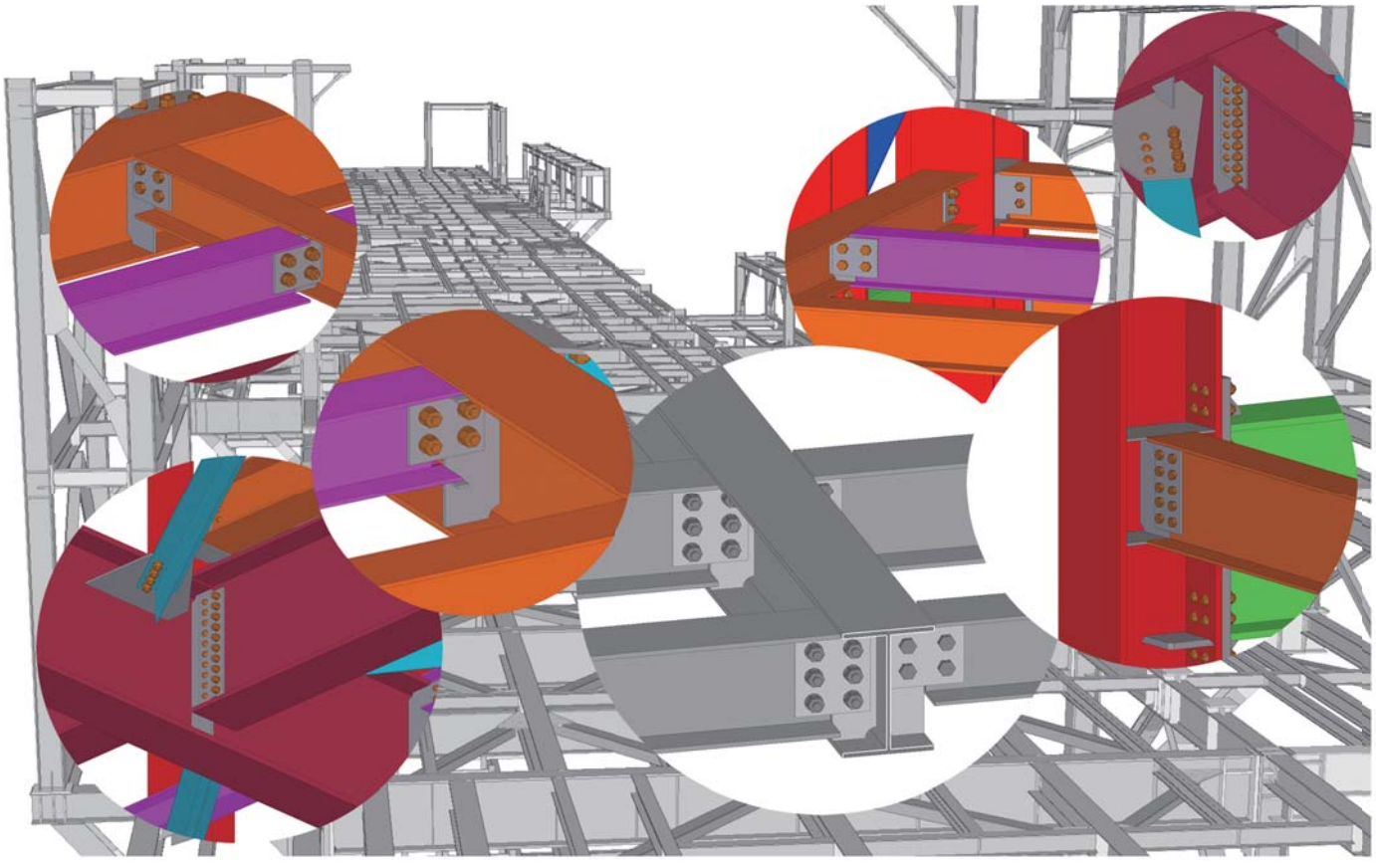
SHEAR CONNECTION

J782 -Double Shear

- This component is making to joint shear between steel member and applicable to joint Column to Beam, Beam to Beam.
- Able to joint double shear.
- General shear joint and field welding are available.



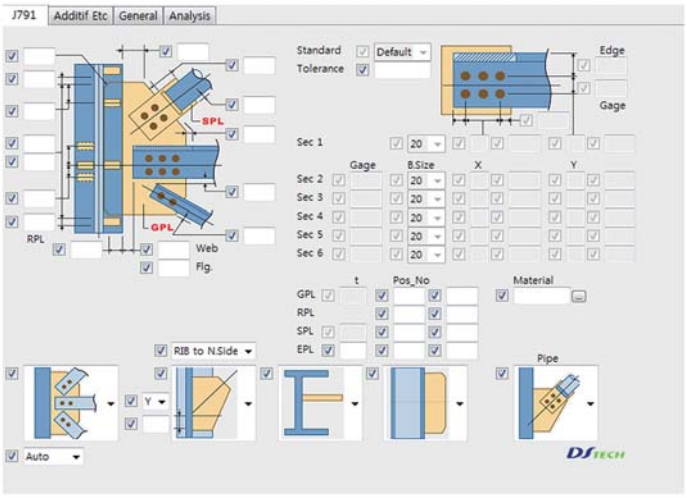




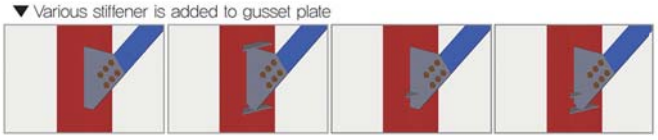
BRACE CONNECTION

J791 -Bracing

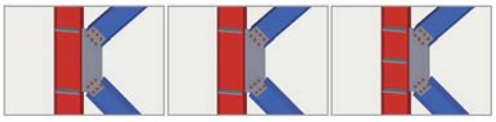
· Applicable to horizontal and vertical brace and able to joint various member such as pipe joint.
· For user's choice, bolt joint and welding are separated.
· Can be added stiffeners plate on both side of gusset plate and also column.



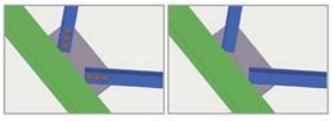
▼ Various stiffener is added to gusset plate



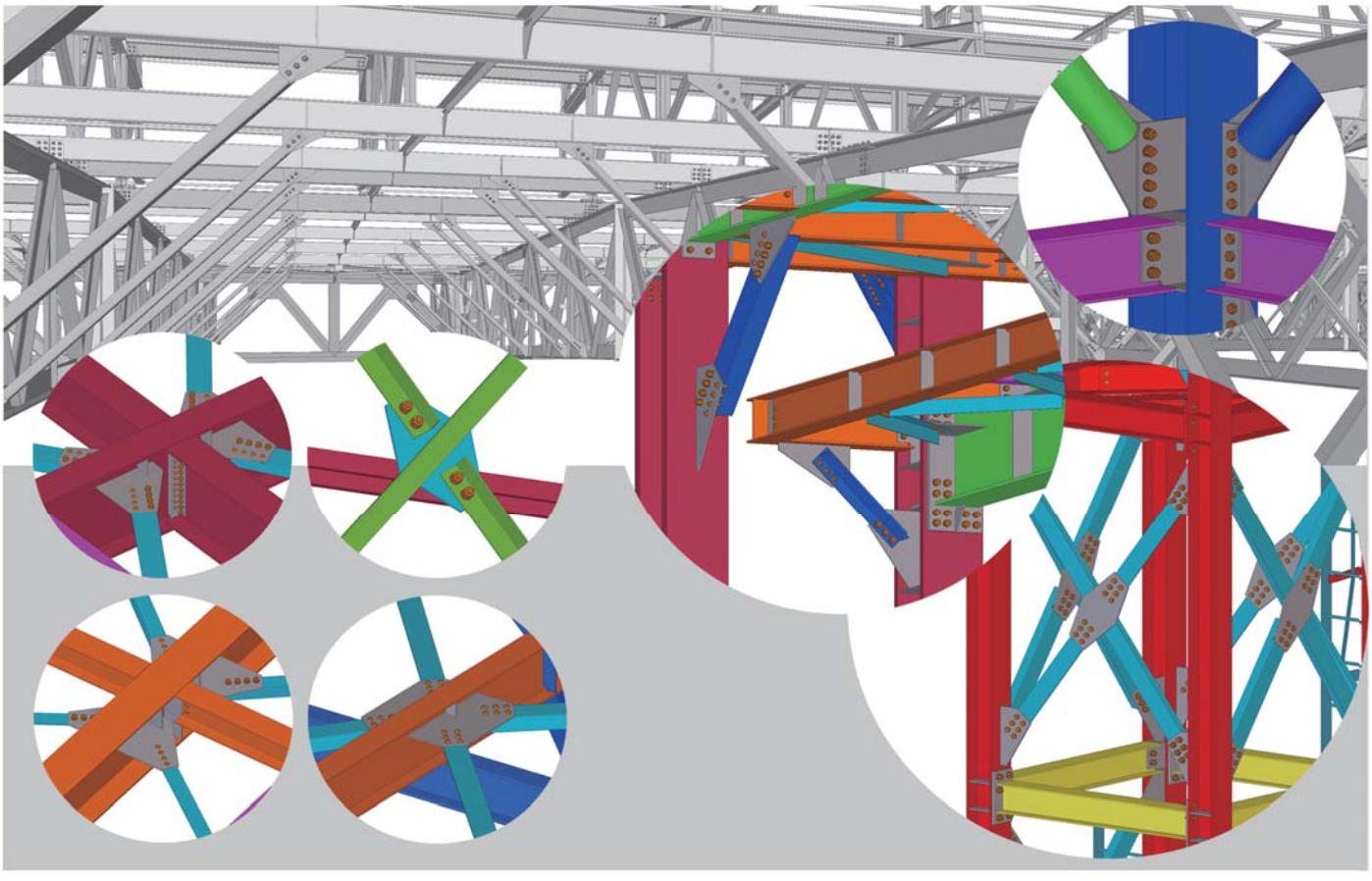
▼ Additional stiffener in Column



▼ Alternate between Bolt and Weld connection



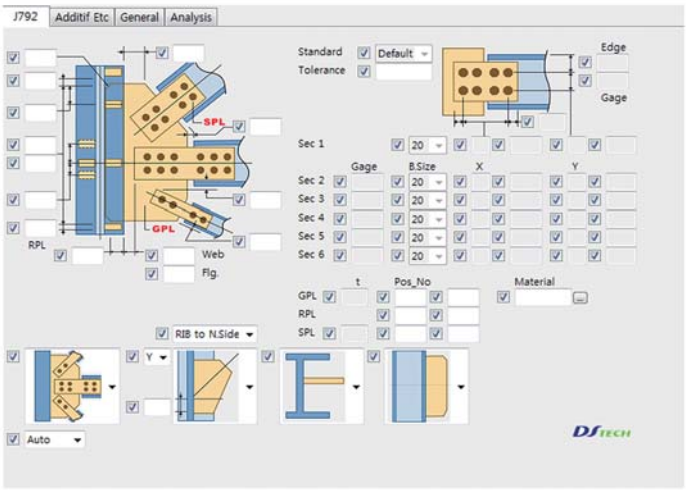
▼ Pipe connection



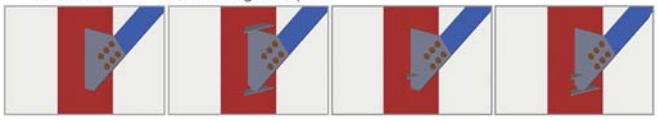
BRACE CONNECTION

J792 -Bracing (double shear)

· Applicable to both horizontal and vertical brace.
· Double shear joint of H-Beam.
· Can be added stiffeners plate on both side of gusset plate and also column.

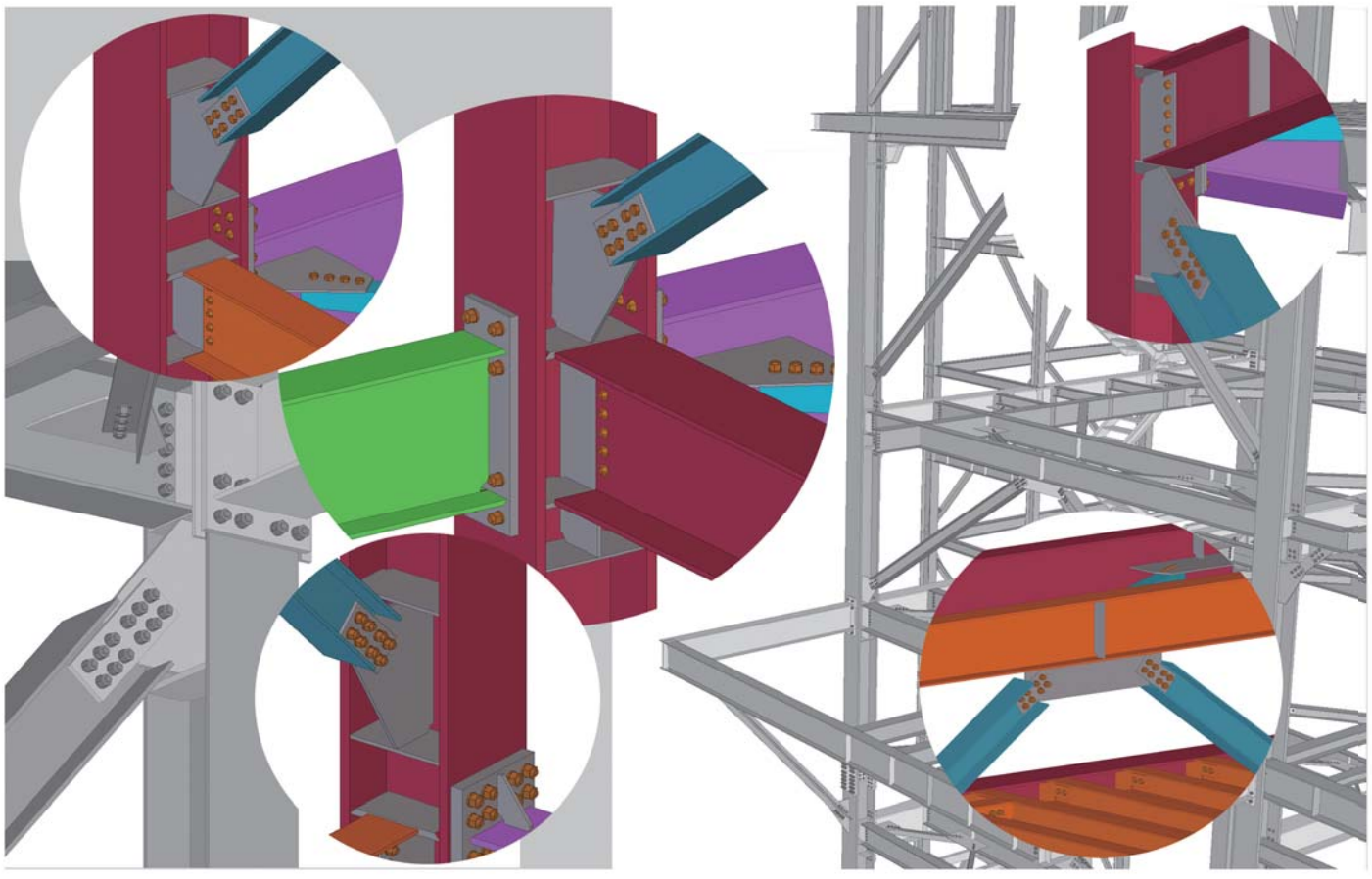


▼ Various stiffener is added to gusset plate



▼ Additional stiffener in Column

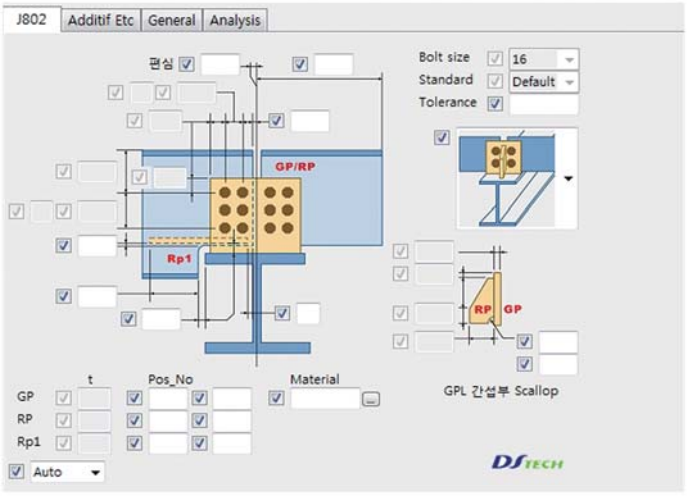
▼ Double shear connection for H-Beam



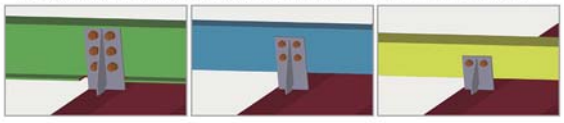
GIRTH/PURLIN CONNECTION

J802 -Girth/Purlin

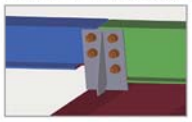
· This component is to joint Girth or Purlin as well as applicable to various member.
· Able to use on H-Beam, Channel and Angle.
· Applicable to Joint Part, General Part, and eccentric connections can be applied when Joint Part is connected.



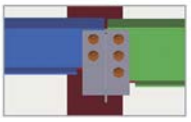
▼ Applied to the various shapes of member(H-Beam, Channel, Angle)

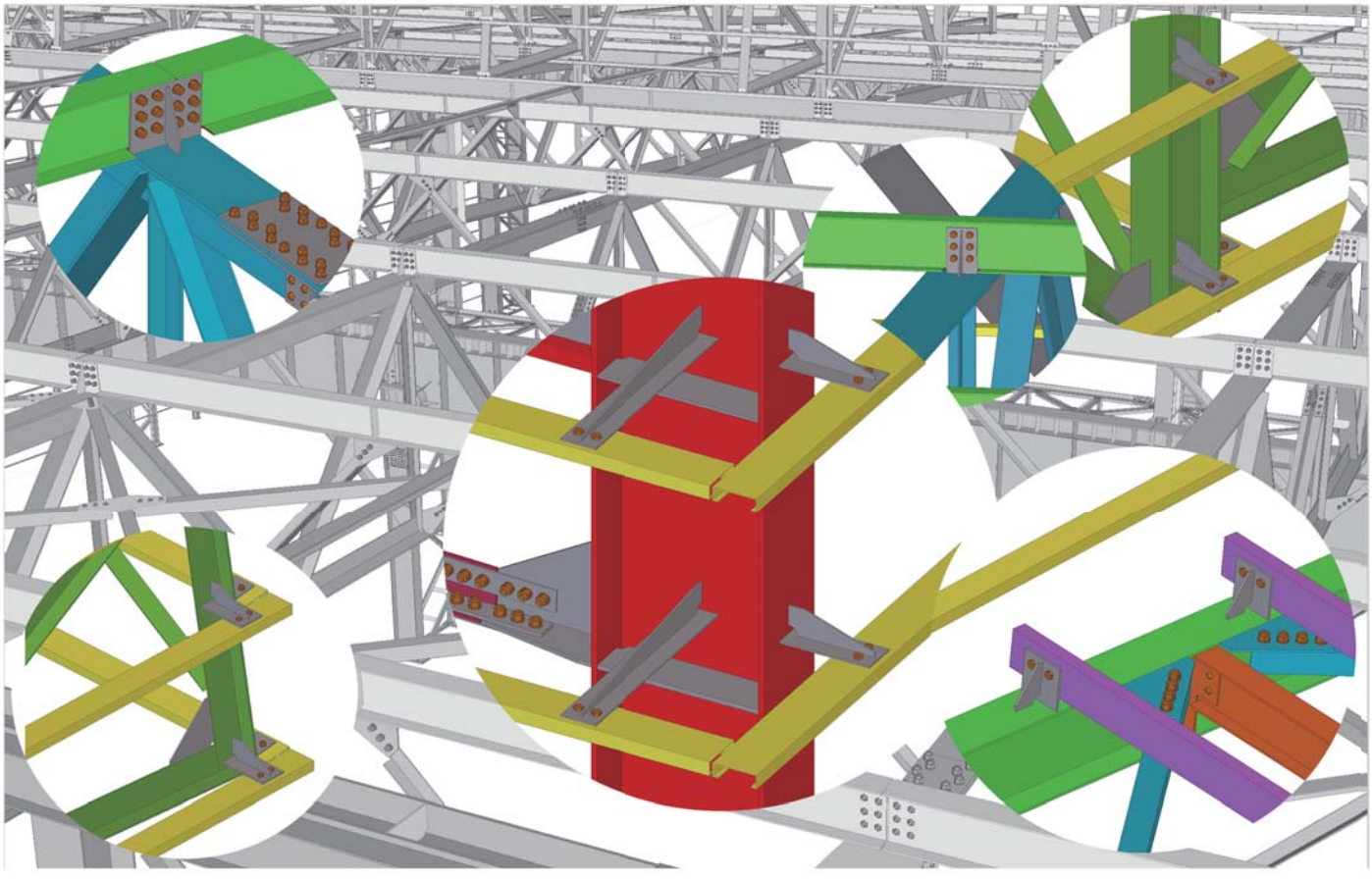


▼ Connection between different sizes of member



When connecting joint part, possible to apply
▼ eccentricity of connection





Registration Certificate of Program

제 C-2012-008239 호

프 로 그 램 등 록 증

1. 프로그램의 제호 (명칭) DS COMPONENT(디에스 컴포넌트)
2. 저작자 성명 (법인명) (주)디에스텍 경북 포항시 남구 연일읍 오천리
3. 생년월일 (법인등록번호) 171711-0074151
4. 창작연월일 2012년04월02일
5. 공표연월일 2012년04월03일
6. 등록사항 저작자 : (주)디에스텍, 창작 : 2012.04.02, 공표 : 2012.04.03
7. 등록연월일 2012년04월23일

「저작권법」 제53조에 따라 위와 같이 등록되었음을 증명합니다.

2012년 04월 24일

한 국 저 작 권 위 원 회

특 허 증

CERTIFICATE OF PATENT

특 허 제 10-1232658 호
(PATENT NUMBER)

출원번호 (APPLICATION NUMBER) 제 2012-0083996 호

출 원 일 (FILING DATE:YY/MM/DD) 2012년 07월 31일

등 록 일 (REGISTRATION DATE:YY/MM/DD) 2013년 02월 05일

발명의명칭 (TITLE OF THE INVENTION)

철골 3차원 모델링 방법 및 이를 수행하는 프로그램을 기록한 컴퓨터로 읽을 수 있는 매체

특허권자 (PATENTEE)

(주)디에스텍(171711-0******)

경상북도 포항시 남구 연일읍 동문로 89-1

발명자 (INVENTOR)

등록사항란에 기재

위의 발명은 「특허법」에 의하여 특허등록원부에 등록되었음을 증명합니다.

(THIS IS TO CERTIFY THAT THE PATENT IS REGISTERED ON THE REGISTER OF THE KOREAN INTELLECTUAL PROPERTY OFFICE.)

2013년 02월 05일

특 허 청 장
COMMISSIONER, THE KOREAN INTELLECTUAL PROPERTY OFFICE

연차등록료 납부일은 설정등록일 이후 4년차부터 매년 02월 05일까지이며 등록원부로 권리관계를 확인바랍니다.

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