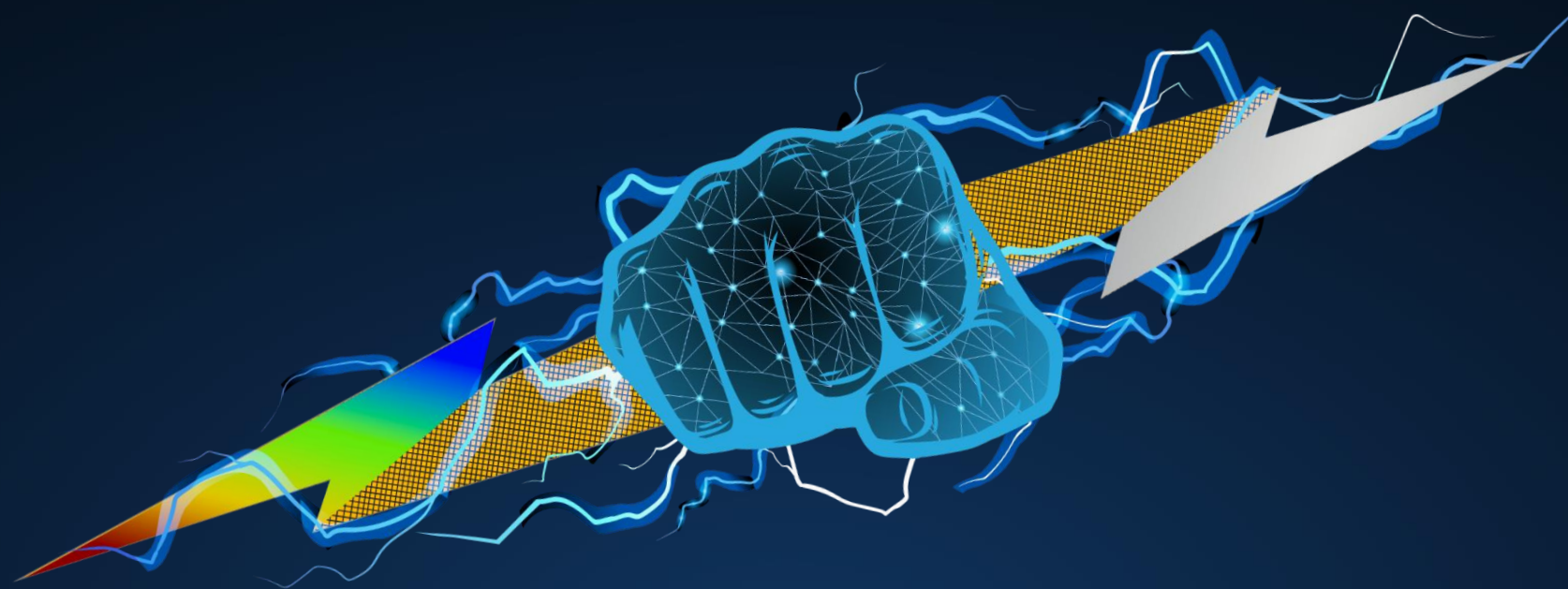


公众号/视频号搜索“MeshWorks”
扫描下方二维码添加微信号



DEP
MeshWorks

The power of CAE to
ACCELERATE. TRANSFORM. AUTOMATE. INNOVATE.

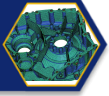
2D Meshing
2D 网格划分



Mid-Plane Meshing
中面网格划分



Tetra Meshing
四面体网格划分



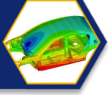
Hex Meshing
六面体网格划分



Model Assembly
模型装配/连接



Post-processing
后处理器



Morph/Param
网格变形/参数优化



Develop/Service
二次开发/咨询服务



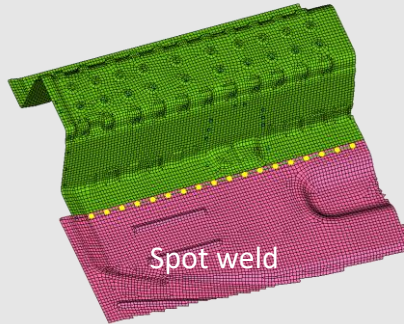
DEP
MeshWorks

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for lighter, smarter & faster
products to market

模型装配/连接 Model Assembly

完备的多种模型装配/连接工具

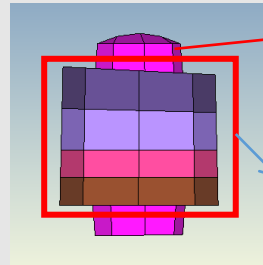
1. MeshWorks具有最丰富的连接关系建模功能：快速创建焊点、缝焊、粘胶、螺栓连接、接触等。
2. 焊点：针对不同学科求解器提供不同的多种焊点类型，如ACM、cweld、rigid等，并且焊点数量和间距可以参数化调整。
3. 粘胶：可设置粘接的尺寸和层数，同时可调整长度。
4. 缝焊：软件提供多种2D缝焊类型，如Quad/V-Quad、RSM、Rigid等。同时可以在2D和3D部件之间生成焊缝。
5. 接触：软件可以自动识别和生成接触面，设置接触属性。
6. 所有连接创建功能都是全自动或高度自动化的。
7. MW连接功能全面涵盖钣金连接、铸造/机加工部件连接、塑料件装配连接等。
8. 无论是点焊或缝焊，都可以轻松设置热影响区HAZ，分析结果的准确性更高。
9. 焊接优化：减少缝焊和焊点数量，缩短焊接长度和粘胶长度等，均可以参数化设置完成。



Spot weld

DYNA100MAT100-Mig Beam
DYNA101MAT100-Hexa
DYNA102MAT196
DYNARIGID
DYNASPOTWELD

Input

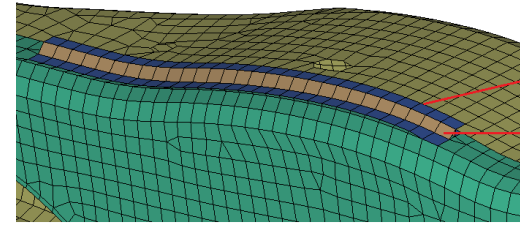
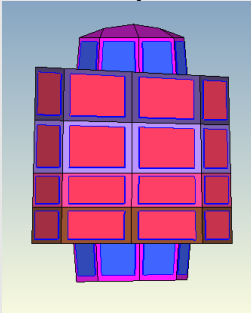


CONTACTS

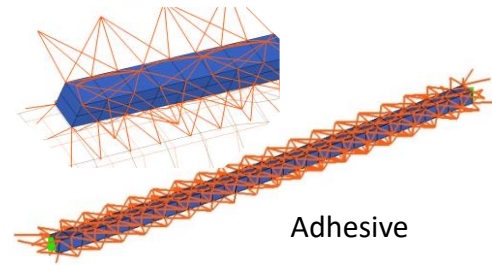
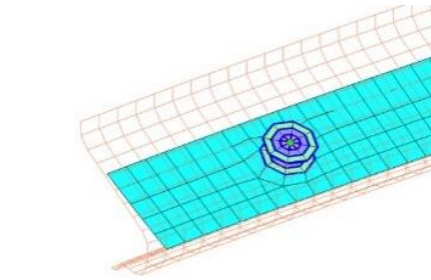
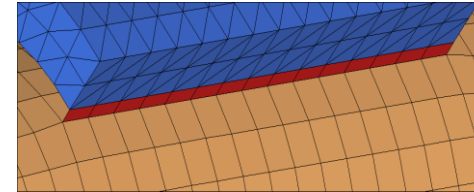
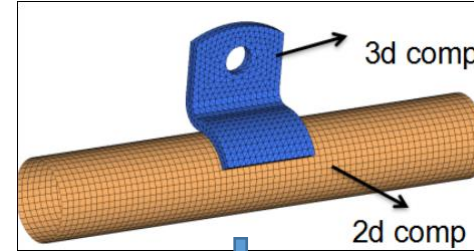
Master Component

Slave Component

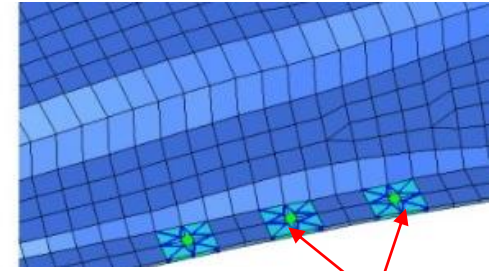
Output



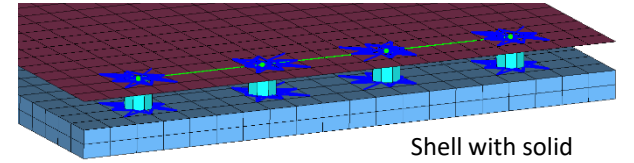
V-Quad Seam Weld



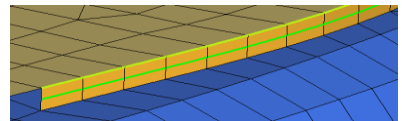
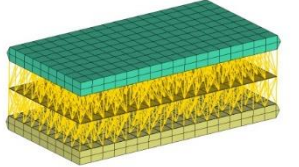
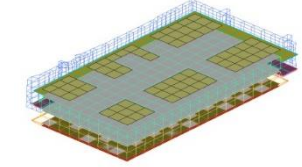
Adhesive



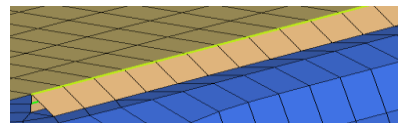
Weld with HAZ



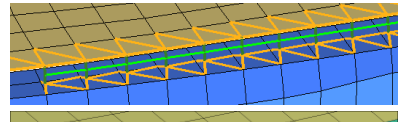
Shell with solid



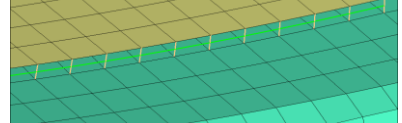
QUAD



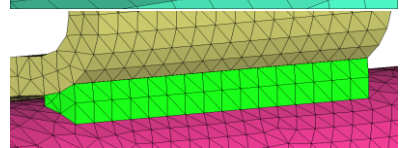
V - QUAD



RSM - WELD



Rigid or
beam welds

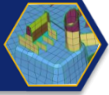


3d-
WELDMENT

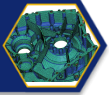
2D Meshing
2D 网格划分



Mid-Plane Meshing
中面网格划分



Tetra Meshing
四面体网格划分



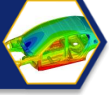
Hex Meshing
六面体网格划分



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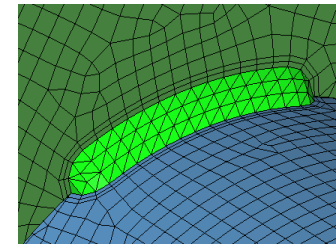
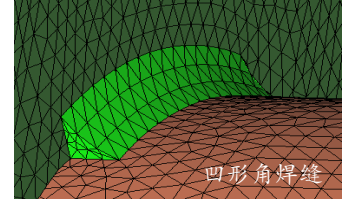
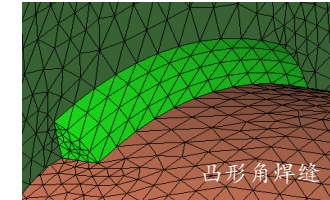
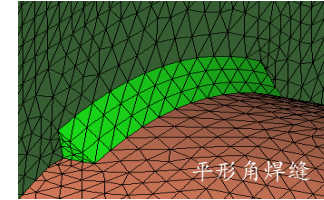
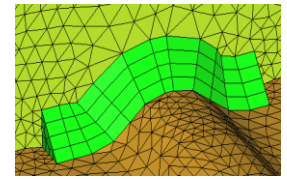
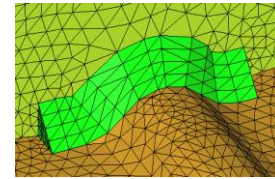
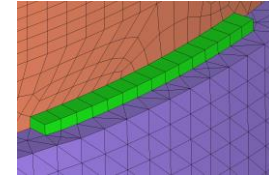
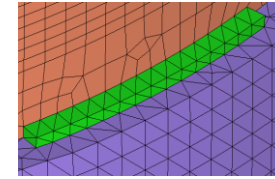
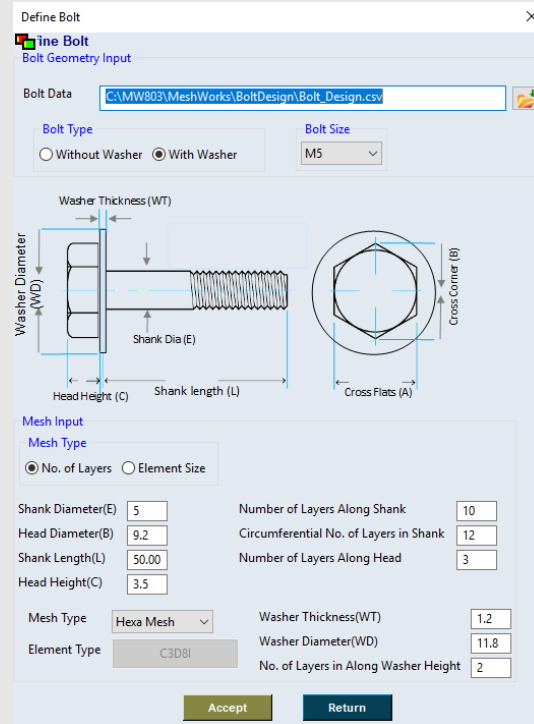
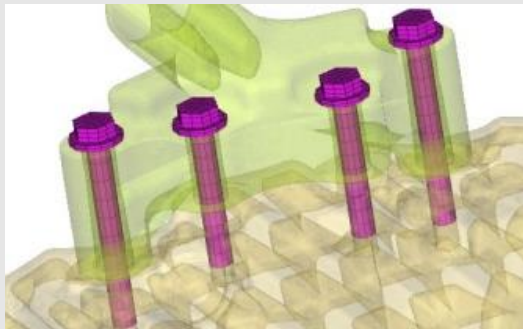
DEP
MeshWorks

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products to market

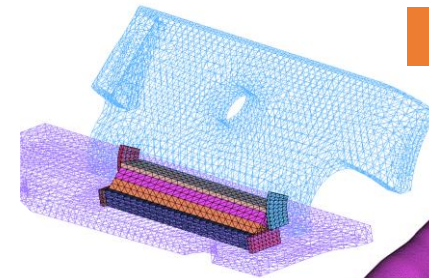
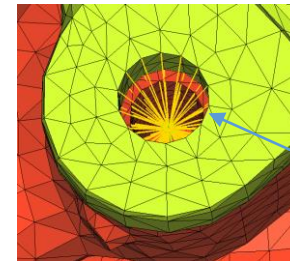
模型装配/连接 Model Assembly

完备的多种模型装配/连接工具

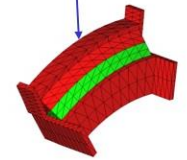
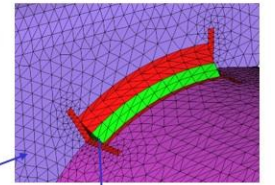
1. MeshWorks提供强大的实体焊缝建模工具，可以在3D部件之间快速生成多种类型的实体焊缝。
2. 实体焊缝类型：四面体、六面体焊缝；平形角、凸形角、凹形角焊缝。
3. 提供带HAZ热影响区实体焊缝建模。
4. 焊缝和部件之间可以共节点连接或接触面连接设置
5. 螺栓连接：MeshWorks可以创建多种类型的螺栓连接，如3D实体螺栓（四面体、六面体）、1D螺栓、刚性螺栓连接等。
6. 3D螺栓创建：即使没有螺栓几何数据，MW也能自动创建螺栓网格。
7. 软件可以自动识别螺栓孔，然后再次基础上批量进行螺栓建模。
8. MW提供强大的实体螺栓建模面板和螺栓参数面板，用户只需要简单选择螺栓的规格和尺寸参数，即可以轻松创建四面体或六面体螺栓。
9. 在创建3D螺栓同时生成接触面和预紧力面，为设置工况条件提供便利。
10. 接触管理：创建自动接触，如壳体-实体、实体-壳体、壳体-壳体（MeshWorks可自动创建整个装配体的连接）。
11. 能够检测接触的自动配合、间隙、过盈配合等。
12. 将模型转换为不同学科时，MW会自动将连接关系转换为相对应类型。



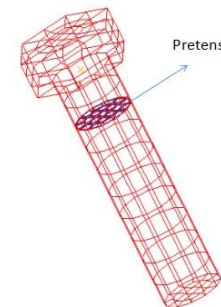
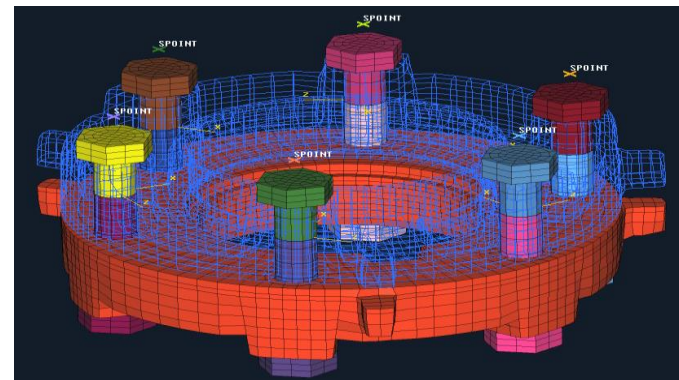
1D bolt



HAZ热影响区焊缝



Contact Surface



Pretension Surface

