

Detroit Engineered products (DEP), is an engineering services, product development, software development, consulting and talent acquisition company. Since its inception in 1998 in Troy, USA, DEP is now a global company with footprints in Europe, China, Korea, Japan, and India. DEP uses the accelerated and transformed product development process, accomplished by utilizing our proprietary platform, DEP MeshWorks, which rapidly reduces the development time of products for all segments.

DEP MeshWorks, a CAE platform helps leading companies around the globe transform their product development process, reduce their development time, and get to market faster, thus saving considerable time and money. MeshWorks is a CAE driven integrated platform for pre and post processing, involving rapid concept CAE and CAD model generation. With in-built features of advanced meshing, process automation, concept modeling and CAD/CAE Morphing, it is now an industry standard tool for faster & smarter parameterization and optimization. Since its release in 2001, MeshWorks has been simplifying tedious time consuming processes associated with design changes, and helping engineers develop future-ready products across industries.

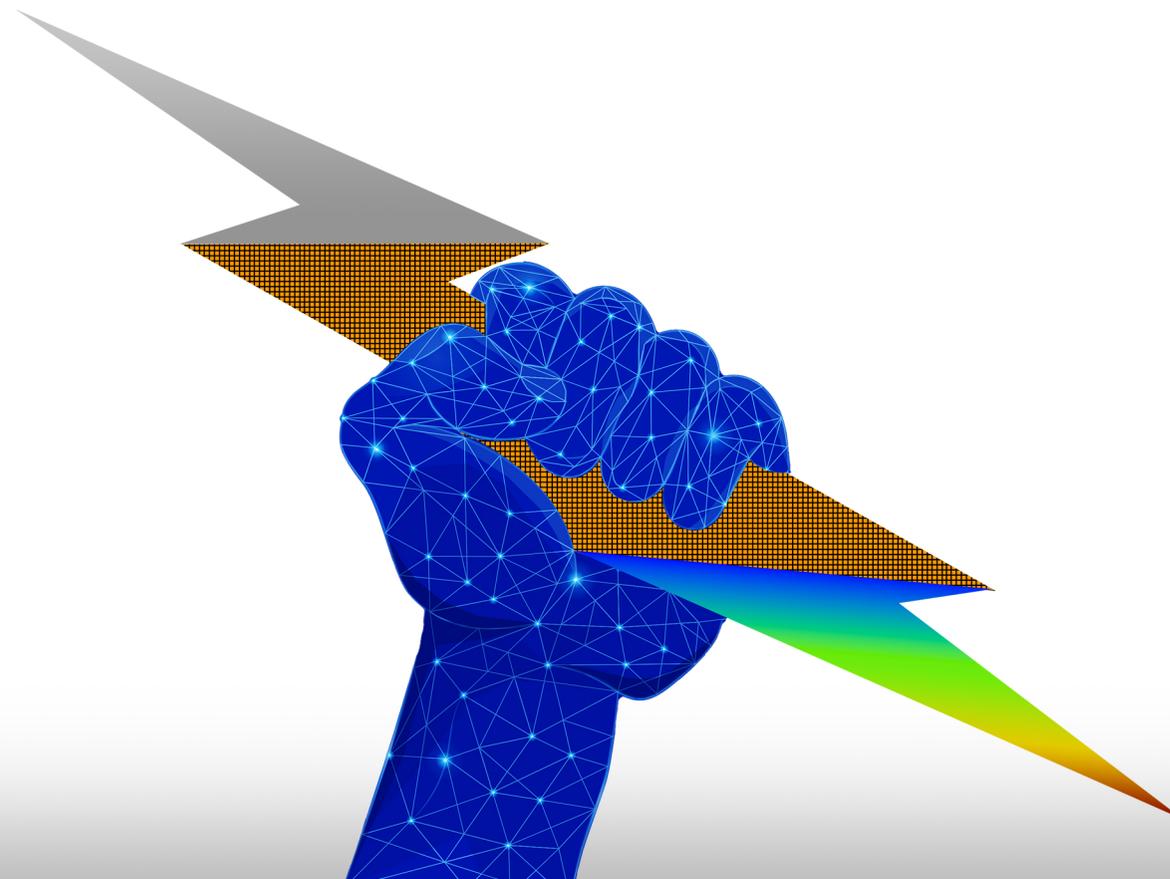
The latest version of MeshWorks 2022, features the additional enhancements of industry specific and targeted customizable solutions. custom modules for precise functions in manufacturing, plastics, etc. are available with upgradations to basic set-up that are part of previous versions. Smart functionalities under CAE Modeling tools provide highly automated solutions for even the most complex geometries. Our patented CAD Morphing function is augmented with high degree of automation in full vehicle and sub-system morphing.

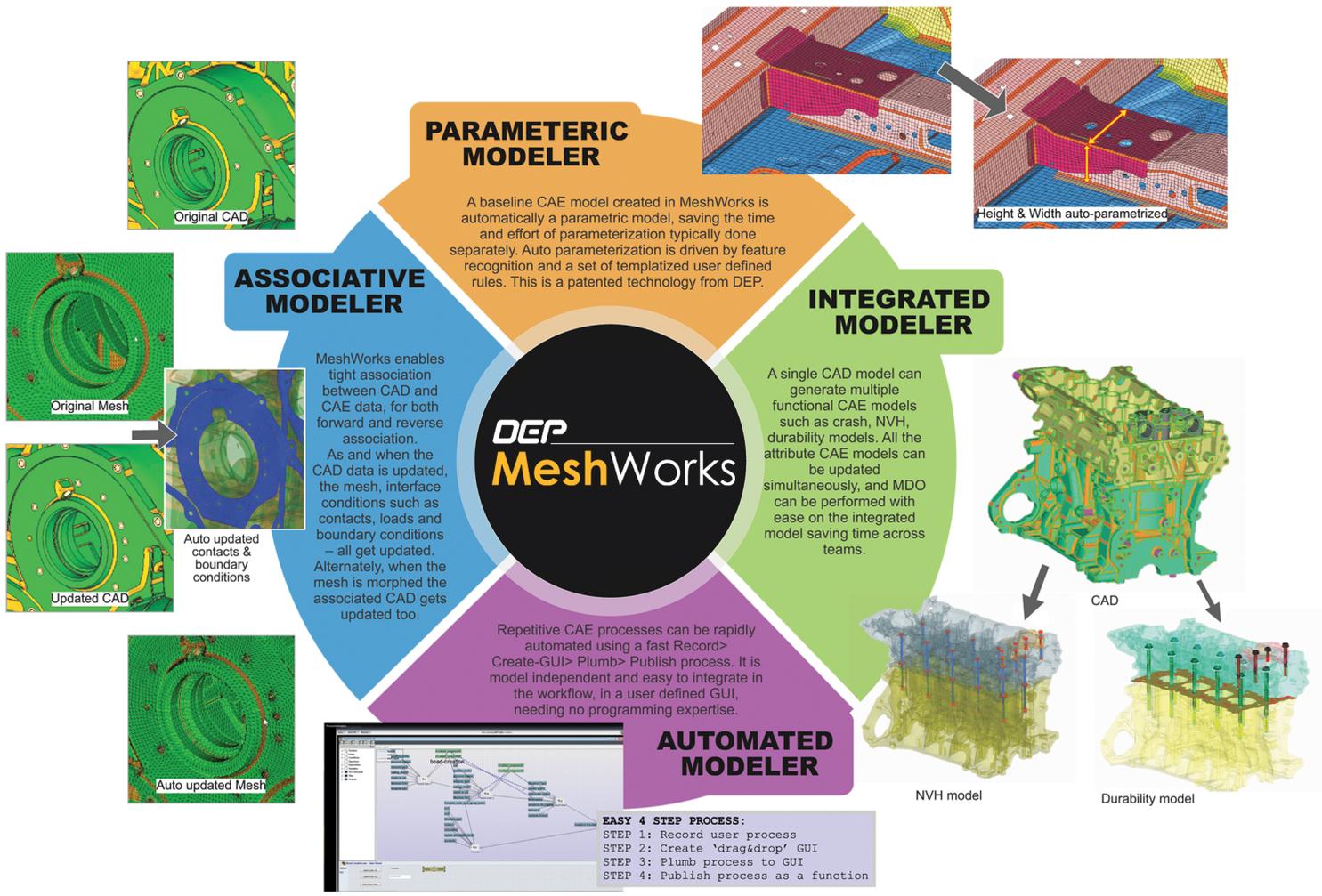
DEP
MeshWorks



POWER TO TRANSFORM PRODUCT DEVELOPMENT PROCESS

PRE/ POST PROCESSING
CAE/ CAD MORPHING
PROCESS AUTOMATION
MULTI-DISCIPLINARY OPTIMIZATION
CAE PARAMETRIZATION





Complete Pre & Post Processor

- Comprehensive FE/CFD pre & post processor with powerful tools for CAD clean-up, meshing (shell, tetra, hexa, hybrid, etc.), highly automated model assembly and results processing.
- Complex FE/CFD can be generated 30% faster and with better quality than other competitor products.

Customized Engineering Process Automation

- Customer CAE processes can be rapidly automated using a fast Record>Create-GUI>Plumb>Publish process.
- 2X to 10X time reduction can be expected for processes that are repeatable.

CAD & CAE Morphing Technology

- Reduces Finite Element (FE) & Computational Fluid Dynamics (CFD) model building time by 50% to 80%.
- Generated morphed CAD models representing optimized designs very rapidly and form the main link between CAE & Design teams.

Parametric CAE Technology

- Rapidly converts FE & CFD models to intelligent parametric CAE models, enabling fast design iterations & Design of Experiment (DoE) studies.
- Most comprehensive parametrization engine addressing several categories of parameters such as shape, gage, material, spot welds, seam welds, adhesives, design features, etc.

Multi-Disciplinary Optimization

- Enables Multi-Disciplinary Optimization to meet design targets, minimize product weight, and minimize manufacturing cost using parametric CAE models.



CAD Interfaces

- Parasolid (text & binary)
- STEP
- IGES
- CATIAV4 & V5
- JT
- UG/ NX

Supporting Platforms

- Windows 64 bit (7,8,10)
- Windows Servers
- Red Hat and SUSE Enterprise
- Linux 64 bit (Workstation & HPC)

FE Interfaces:

- TL(ASCII & Binary)
- MSC Nastran
- Abaqus FEA
- ANSYS
- LS-DYNA
- Pam-Crash
- RADIOSS
- Fluent
- SC/Tetra
- STAR-CD
- MADYMO
- OptiStruct
- GENESIS
- CONVERGE CFD



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