

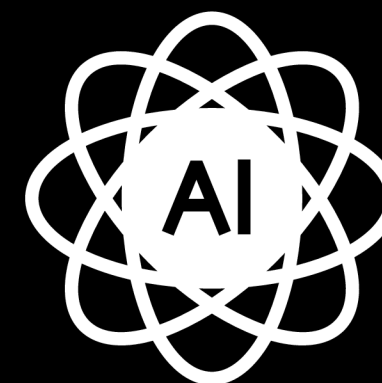


email@depeurope.com



DEP Dynast+
Engineering
Products

MeshWorks



*Designed by & for **CAE Engineers***

Request a Demo
at

depeurope.com

DEP MeshWorks has long accelerated model creation, iteration, and exploration — whether manual or automated.

With the new MeshWorks AI/ML platform, the editor Detroit Engineered Products extends this advantage to simulation itself, providing a powerful alternative to traditional solvers.

The result: the entire process — from modeling to computation and optimization — can now be completed in a fraction of the time, saving months of effort across any industry.



MeshWorks

DEP MeshWorks AI/ML Platform Key Strengths



Trust & Transparency

PINNs and Equivalence Score ensure reliable, explainable, and validated results.



Data Generation & Enrichment

Easily create and expand datasets through morphing, parameterization, and DOE capabilities.



Data Sovereignty

Model training can be fully performed within customer internal network.



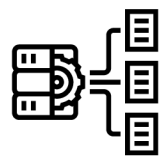
Solver Compatibility

Seamless integration with main solver formats via MWInput and MWPlot.



Immediate Value

Fast prediction, broader design exploration, and significant cost reduction.



Data Generation

CAE parameterization to enrich existing legacy databases and rapidly generate a fleet of design variants. Run simulations to build a comprehensive database of results.



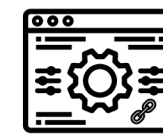
Adaptive Training

Training proprietary models based on enriched dataset, using Physics-Informed Neural Networks (PINNs) and an adaptive toolset ensuring predictor reliability.



Performance Predictor

Using trained models to accurately predict product performance — an instant alternative to traditional solvers during early design phases.



Auto Parametrizer

Direct geometry & property modification for interactive design exploration, with immediate evaluation of performance impact.



Optimizer

Autonomous design exploration by coupling the Auto Parametrizer with the Performance Predictor, enabling fast convergence toward the optimal design.

