



PRESS RELEASE

ALPHASTAR ANNOUNCES THE RELEASE OF GENOA v7 and MCQ v3

LONG BEACH, CALIFORNIA (8/22/2017) – AlphaSTAR Corporation is pleased to announce the release of GENOA v7 and MCQ v3. This unparalleled suite of software allows engineers to calibrate & validate material properties using MCQ, followed by Multi-Scale Progressive Failure Analysis utilizing GENOA. With an extensive list of validated case studies across aerospace, automotive and energy sectors, “the software is now more user friendly than ever” says CTO, Dr. Frank Abdi.

Key Enhancements:

- ❖ **Over 150 GENOA Tutorial and Test Validation Examples**
- ❖ **Over 75 MCQ Tutorial and Test Validation Examples**
- ❖ **3D Printing Simulation Supporting Multiple G-Code formats**
- ❖ **LS-DYNA UMAT**
- ❖ **ABAQUS CAE Plug-in**
- ❖ **Advanced Curing Analysis Capabilities**
- ❖ **Enhanced Fatigue Capabilities**
- ❖ **Expanded Filament Winding/Crimp Capability**
- ❖ **And more...**

Significantly, GENOA v7 offers additive manufacturing simulation capabilities, which allow end users to simulate the 3D Printing process and accurately predict distortion, residual stress, damage initiation, and crack formation associated with AM parts.

GENOA is a durability and damage tolerance, progressive failure and reliability software providing engineers with predictive computational technology to assess behavior of advanced composite structures using a true De-Homogenized Multi-Scale Progressive Failure Analysis approach. End users are able to assess failure at the macro, micro and nano levels subject to static, fatigue, impact and environmental loadings.

MCQ is a material modeling software which provides engineers with advanced analytical capabilities to characterize and qualify material properties as input for finite element analysis. This software suite addresses continuous fiber, discontinuous fiber, ceramic matrix, metal matrix and hybrid systems; allowing end users the option to choose from MCQ Composites, MCQ Chopped, MCQ Ceramics, MCQ Metals and MCQ Nano.

About AlphaSTAR Corporation: AlphaSTAR Corporation is a leading engineering services and software company that provides innovative physics-based simulation technologies for structural modeling and analysis of advanced composite structures in the aerospace, automotive, defense, and energy industries worldwide. As a solution provider, AlphaSTAR partners with DS SIMULIA, LSTC, ANSYS and SIEMENS. AlphaSTAR is headquartered in Long Beach, California and is the recipient of esteemed industry and technology awards for R&D and software development.

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