

PRESS RELEASE

Digmat 2018.1 Delivers New Advances Across its Holistic Material Modeling Solution

From Reinforced Plastics, Continuous Fibers, Additive Manufacturing to Reinforced Rubbers

(NEWPORT BEACH, CA, July 2018) [e-xstream engineering](http://www.e-xstream-engineering.com), market-leader in multi-scale modeling of composite materials and structures, today announced the new release of Digmat 2018.1.

Digmat 2018.1 delivers new advances across its holistic material modeling solution, from reinforced plastics, continuous fibers, additive manufacturing to reinforced rubbers. For structural engineers, confidence in lightweight reinforced plastic structures is improved, thanks to an enhanced failure modeling approach. The failure material model calibration in Digmat-MX is now more accurate by accounting for the testing specimen geometry effects. Progressive failure in Digmat-CAE is now more robust for shell elements and offers more damage laws to comply with various types of material systems. Material engineers who need to deal with uncertainty in composites due to defects such as fiber waviness can now characterize virtually the impact of any tortuosity in continuous fibers in Digmat-FE. Process engineers looking to optimize their polymer printing strategy are now able to understand the influence of their printing strategy on the part quality thanks to a new advanced solver in Digmat-AM, providing deep insights into local material temperature evolution, crystallinity, residual stresses and warpage as a function of a vast range of printing parameters. Finally, for material engineers who need to characterize reinforced rubber, advances in the large strain finite element solver from Digmat-FE enable virtual compounding and characterization up to very large strains, as required by the rubber industry.



About e-Xstream engineering

Founded in 2003, [e-Xstream engineering](http://e-xstream.com/) is a software and engineering services company 100% focused on the multi-scale modeling of composite materials and structures. The company helps customers, material suppliers, and material users across many industries reduce the cost and time needed to engineer innovative materials and products using Digimat, the nonlinear multi-scale material and structure-modeling platform. Since September 2012, e-Xstream engineering is a wholly owned subsidiary of [MSC Software](http://www.msc-software.com/). The e-Xstream engineering corporate logo and Digimat logo are trademarks or registered trademarks of e-Xstream engineering SA. For additional information about MSC Software's products and services, please visit: <http://e-xstream.com/>

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