

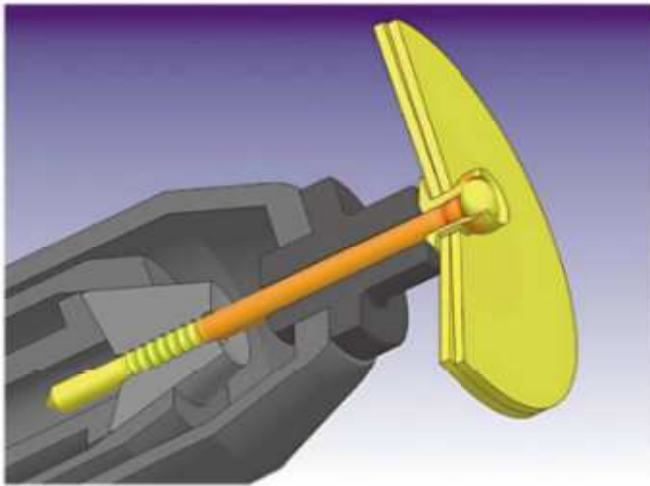


Consultores en Conformado y Procesos de Manufactura S.A. de C.V.

Tecnología para la innovación en manufactura

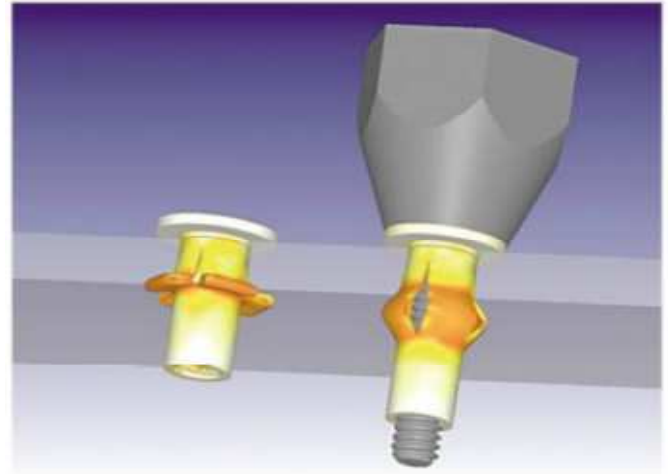
Software Simulates Forming & Mechanical Joining Process Changes

James B. Miller, Principal Research Scientist of Scientific Forming Technologies Corporation (SFTC) Columbus, OH, USA, says "SFTC currently released version 10.2 of their DEFORM™ System for process simulation. The software is routinely used to simulate fastener related forming and mechanical joining applications. Forming simulations of hot and cold manufacturing processes predict important results such as deformed shape, loads/torques, defects and die stresses. Meanwhile, mechanical joining simulations provide accurate predictions of product installation and performance testing outcomes.



The simulation of blind rivet installation process includes multiple deforming bodies.

"DEFORM offers unique capabilities that simplify modeling of advanced mechanical joining applications such as clinching, bolting and riveting. Its flexible and easy to use interface is more customized toward fastener specific processes than general purpose FEM codes. The software also has the ability to model assemblies consisting of multiple deforming bodies. Contact definitions are straightforward; the user simply selects pairs of bodies that may come into contact. Remeshing is automatically controlled by the software that requires no user intervention during simulation. Such ease of use allows designers and engineers in production environments to obtain practical FEM results.



Axial deformation of a blind rivet nut was driven by the rotation of a threaded tool.

"Companies must consider a wide range of factors when developing, redesigning or optimizing fasteners and assemblies. Simple product of tooling design decisions may significantly affect product's manufacturing, assembly or performance. Thus, it is advantageous for companies to gain more insight on their process changes and to do so earlier in their design cycles. The world's leading fastener and original equipment manufacturers have used the DEFORM process simulation system to accomplish such goals"



www.deform.com

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