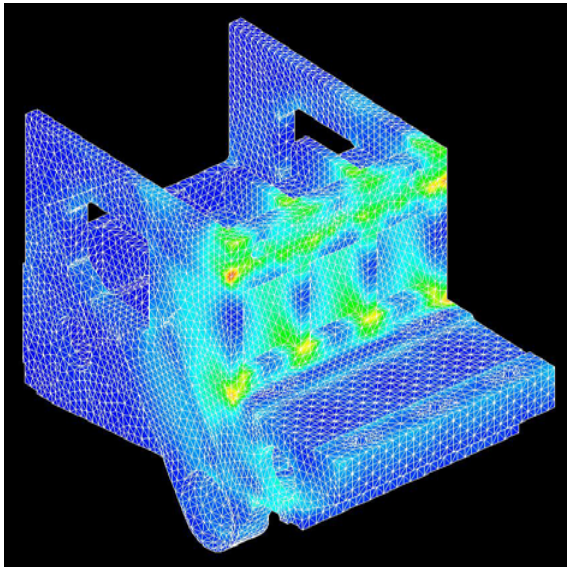


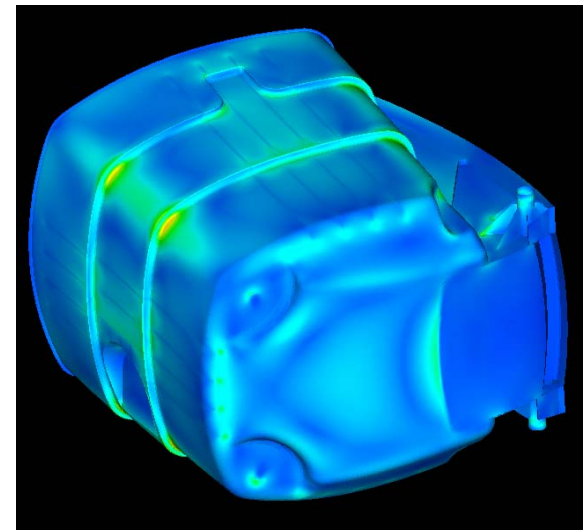
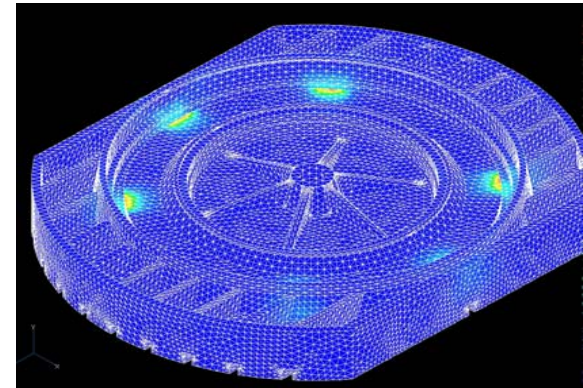
Industrial Case Study (Tooling and Manufacturing Equipment)



Bergomat Maschinenbau GmbH & Co. (www.aberger.de) used NEi Nastran to design and analyze this tooling machine housing (left), which is a major component of a multi functional tooling center. Several designs were compared under similar loading and constraints using linear static analysis.

NEi Nastran was used by Deckel Maho GmbH (www.gildemeister.com) to design and analyze this table for a NC tooling machine (top right). The geometry was defined as molded part in Pro/E, imported via STEP into the NEi Nastran Modeler, and analyzed using the NEi Nastran solver. The contour plot depicts a load case where the table is locked with a clamping mechanism so milling is possible.

Klaus Kunststofftechnik GmbH (www.klaku.de) used NEi Nastran to analyze this fiber reinforced Polypropylene bottle (lower right) for an industrial vacuum cleaner. The bottle is loaded with a 220 mbar vacuum and 32 kg of simulated filling (stone dust). The initial conception was optimized to reduce stress concentrations.



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