Mechanical Computer Aided Engineering (MCAE) Global Market 2011

Description:
The most dynamic segment of the PLM market, with a healthy 12% CAGR in the past 5 years, the Mechanical Computer Aided Engineering market continues to ignore the economic downturn and almost silently, as per the engineers' traditions it serves, has become the most profitable segment of the PLM business.

A first of its kind, this report studies the worldwide market value, the actual growth rate and the vendors revenue form 2006 until now, through an analysis of the top 13 MCAE software vendors in North America, Europe and Asia-Pacific. It provides analysis through multiple criteria, and for each criteria, the ranking per region based on 2010 numbers.

Compared to the previous MCAE reports published since 2005, besides having extended the scope of the report from Europe to the Worldwide market, a new type of vendor has also been included, MathWorks whose products come under our definition for the Mechanical Computer Aided Engineering MCAE. This market covers structural analysis, vibration or modal analysis, thermal, fluid dynamics, crash simulation and analysis, fatigue, plastic injection, test simulation and other simulations of modeled systems, assemblies or parts. Other newcomers to the reports are COMSOL, an innovator in multiphysics simulation and Autodesk who is now a player in this space thanks to its multiple acquisitions.

Smaller than the MCAD market in terms of size, but growing much faster, the MCAE market is experiencing less hype, and has been recording a steady growth since almost 30 years. Probably engineers' need for validation of the software products which are supposed to be used to validate their own manufactured products through simulation, test and experimentation is a key reason why succeeding MCAE products are “senior” products. Most solvers have been available to the market for at least 10 or 15 years if not much more. These characteristics of MCAE products profoundly separate the market behaviour from those of MCAD and PDM.

The above mentioned characteristic of the MCAE market led us to see some mergers, acquisitions and consolidation in the MCAE market in the past few years, as it takes too much time for bigger vendors to develop their own technologies and grow them up to cash generating products; they prefer acquiring existing proven technologies which have been validated thanks to smaller vendors. With the solid growth seen in this segment of the PLM market, more acquisitions are going to take place in the coming years.

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