

PRESS RELEASE

ADT and Impact Technologies Streamline the Design and Analysis of Turbomachinery Components

LONDON 10 February 2010

Advanced Design Technology, Ltd. or ADT, global leader in the development of advanced turbomachinery design methods, which not only help to shorten development time but will also improve the performance of turbomachinery components, and Impact Technologies, LLC, a high-tech engineering consulting and machinery health management system development firm, announce today the release of an interface between TURBOdesign Suite and BladePro-CF™. This new module will enable product development and design engineers to link 3D geometry files designed within TURBOdesign Suite environment directly into BladePro-CF™ for structural analysis. The immediate result is for design engineers to achieve significant time savings in geometry data exchange, therefore saving more than 50% of the geometry preparation activities necessary for FEA analysis.

“There is a natural synergy between TURBOdesign Suite and BladePro-CF™” said Prof. Mehrdad Zangeneh, Executive Director and Founder of ADT. “TURBOdesign-1 is used extensively in aerodynamic design of centrifugal compressors and radial-inflow turbines. The application of the code has resulted in significant improvement in performance and reduction in design and development times. The direct link with BladePro-CF™ will streamline the process of carrying out structural analysis and should help designers achieve further improvements in design and development times in applications such as turbochargers where aeromechanical design poses an important bottleneck in the design process. Through this partnership, we empower designers with the tools to rapidly design aerodynamically superior products at the highest standards of structural reliability.”

“Global actors of the turbomachinery industry are facing tightest deadlines today more than ever;” said Jeff Steele, Manager, Software and Services at Impact Technologies, LLC, “BladePro-CF™ has been delivering up to 50% and more reduction in the structural analysis cycle to mechanical engineers with no FEA experience and experts alike, highly reducing the product development costs. The interface between TURBOdesign Suite and BladePro-CF™ will finally give designers the means to focus on product development and get products to market faster.”

The module, made available upon request to TURBOdesign Suite and BladePro-CF™ customers, features a geometry converter from TURBOdesign Suite native geometry files to BladePro-CF™ format. Complex 3D geometries can be ready for analysis in only a couple of minutes, eliminating low-end and time consuming CAD activities, and ultimately shortening the design cycle for product development. The possibility of implementing this capability in an aero-mechanical design optimization loop will also provide further streamlining opportunities for design engineers in future.

For more information contact:

Advanced Design Technology
Lorenzo Bossi [Send mail](#)

Impact Technologies
Jeffrey Steele [Send mail](#)

About ADT:

Advanced Design Technology or ADT is a global leader in the development of advanced turbomachinery design methods, which help not only to shorten development time but will also improve the performance of turbomachinery components.

ADT's aim is to put the designers in direct control of the aerodynamic design and to shorten considerably the design time and time to market for a range of turbomachinery products. ADT's clients, who represent some of the leading global players in the aerospace, automotive, power generation and marine fields, have achieved significant returns on investment in terms of reduction in design times, higher performance and ease of know-how transfer between different design teams and projects.

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Advanced Design Technology
Dilke House, 1 Malet Street, London WC1E 7JN United Kingdom
Tel: +44 (0)20 7299 1170 Fax: +44 (0)20 7636 8028

<http://www.adtechnology.co.uk>

About Impact Technologies

Impact Technologies LLP is a high-tech engineering consulting and machinery health management system development firm that develops sensors, systems, and software that monitor, detect, isolate, predict equipment performance and degradation, and plan optimized maintenance schedules. We provide services to our customer to reduce risk, increase safety, improve readiness, and minimize equipment support costs.

Impact Technologies LLP
200 Canal View Boulevard, Rochester, NY 14623 U.S.A.
Tel: +001 (0)585-424-1990 Fax: +001 (0) 585-424-1177

<http://www.impact-tek.com>