

sêam[®]

vibro-acoustic design software



Trucks Get Overhauled Using SEAM.

Even a best-selling medium duty truck has room for improvements. International Truck and Engine Corporation's Vehicle Acoustics Group found a way to make design changes to its International® 4000 Series trucks by using Cambridge Collaborative, Inc.'s SEAM software as a flexible, cost-effective design-stage analysis tool.

When International's Vehicle Acoustics Group was charged with proposing fundamental changes to improve the noise and vibration levels in the International 4000 Series, they recognized SEAM as a natural fit.

"Costs (for the project) were justified by utilizing SEAM software as an analytical tool," explained International's Senior Engineering Analyst Lee Schroeder. "SEAM supported our testing and re-engineering parameters while reducing test hours and keeping overall expenses down."



"SEAM allowed us to identify cascaded targets for the truck's subsystems," said Schroeder, further adding that this analysis permits a broader view of the collective vibration inputs from all the components working together.

SEAM's design-stage modeling capabilities allowed the team to test and adjust various structure inputs in the design phase, in order to assess the best course of action for the proposed changes. Schroeder mentioned an additional benefit of SEAM's potential to create a virtual "noise and vibration lab" without a single added expense or physical model.



The International 4000 Series analysis project was a success. With Cambridge Collaborative's SEAM software as a cost-effective design-stage modeling tool, the Vehicle Acoustics Group was able to propose significant improvements to the medium duty truck's design.



|||((Cambridge Collaborative

Cambridge Collaborative, Inc.
47 Lowell Road
Concord, MA 01742 USA
Phone: +1.617.876.5777
www.ccinc.com : Info@ccinc.com