Cruden and Mechanical Simulation to demonstrate seamless vehicle model integration for driving simulators at Automotive Testing Expo 2015

Cruden's ePhyse interface software runs vehicle models natively, in co-simulation, with its simulators; show visitors are invited to drive Mechanical Simulation's CarSim model on a Cruden Hexatech driving simulator.

STUTTGART – Cruden and Mechanical Simulation are partnering to show vehicle dynamics engineers how easy it is to integrate their vehicle models, such as those created in CarSim, with Cruden simulators, at the Automotive Testing Expo Europe 2015 (June 16-18; Messe Stuttgart, Germany; stand 1169).

Cruden's ePhyse Net interfacing package allows its automotive OEM and race team customers to run their vehicle models natively, in co-simulation, with any of its simulators, through their Simulink S-functions. At the show, engineers will be able to drive a CarSim model of a C-class sedan around a skidpad on a Cruden 6-DOF driving simulator, experiencing the effect of front- and rear-wheel drive on handling behaviour.

"The Cruden ePhyse external physics package makes our simulators available to any customer, from OEM to smaller Tier 1 supplier. It saves engineers time on compiling code and on cost by eliminating the need for the Real Time Workshop conversion package," says Maarten van Donselaar, CEO of Cruden. "It's great to work with our friends at CarSim to highlight how both our technologies are used by automotive customers in the real world."

According to Dr. Tom Gillespie, director of product planning at Mechanical Simulation, "We are pleased to partner with Cruden to provide a 'hands-on' driving experience at the Expo. With CarSim as the vehicle model it is easy to switch vehicle properties quickly so the driver can experience how the vehicle handling behaviour changes with proportioning of front and rear drive. The A-B comparisons possible on a driving simulator can greatly accelerate the development process."

ePhyse integrates with other commonly used vehicle modelling packages and Cruden also provides an extremely detailed, open architecture customer vehicle model (CSVM), built up in MATLAB/Simulink.

About Cruden

Cruden is the world's leading designer and manufacturer of professional HIL/DIL driving simulators, simulator components and software, serving the automotive, motorsport, marine and attractions industries. The company's complete simulator packages interface with SIMULINK-based customer vehicle models and include on- and off-board projection systems. Cruden also produces vehicle, road/track and tire models in-house. Cruden's heritage is in the development of professional simulators for the aerospace, marine and automotive industries. Originating from Fokker Aircraft Company in the late 1990s, the company was called FCS Racing Simulation before becoming Cruden in 2006.www.cruden.com

About Mechanical Simulation

Mechanical Simulation Corporation is the world leader in the development and distribution of advanced software used to simulate vehicle behavior involving interactions between the 3D dynamic vehicle response, advanced, controllers, driver controls, and 3D roads. Established in 1996, Mechanical Simulation provides car, truck and motorcycle simulation packages, training and ongoing support to more than 60 OEMs, over 75 Tier 1 suppliers and more than 200 universities and government research groups worldwide. The Ann Arbor, Michigan, headquarters coordinates with global sales agents who provide local distribution and tech support for our software.

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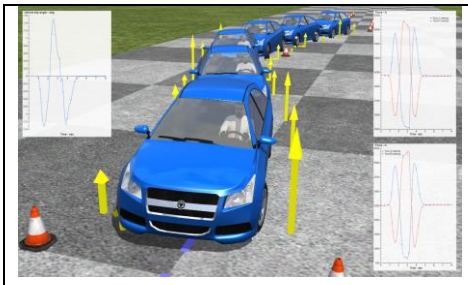
Pictures

	At the Automotive Testing Expo, engineers will be able to drive a CarSim model of a C-class sedan around a skidpad on a Cruden 6-DOF driving simulator, experiencing the effect of front- and rear-wheel drive on handling behaviour.

	A Cruden 6-DOF driving simulator, developed for automotive testing use.
Mechanical Simulation® *Driving Simulation.*	Mechanical Simulation company logo
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