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CES SELECTOR ADDS MORE FOR METALS, MATERIALS SUBSTITUTION AND SELECTION, AND ENVIRONMENTAL DESIGN

Support for critical material and process choices helps optimize cost, performance, and environmental impact.

Cambridge, UK - September 28, 2012 - Granta Design today announced the release of CES Selector 2013, a new version of the PC-based software for materials decision support. This year there is extra help for engineers concerned with equivalency and other metals-related challenges. New tools help those seeking similar or replacement materials across the full range of plastics, metals, ceramics, and composites. And there are new capabilities for lightweight design and environmental design.

Those working with metals benefit from the launch of a new edition: CES Metal Selector. By combining the core functionality of CES Selector with two specialist datasets, CES Metal Selector helps engineers and materials experts who need to find and use information on metals specifications, designations, and global metal equivalencies. MI-21 provides access to 100 years-worth of the World Metals Index's (WMI) metals data and a unique compilation of information on metal joining and surface treatment consumables from The Welding Institute (TWI). StahlDat SX is the official compilation of all registered and maintained European Standards for steels according to EN10027-2, the European Register of Steels ("Stahl-Eisen-Liste").

CES Selector now provides a quick and simple route to identify potential drop-in replacement materials in cases of material obsolescence, restricted substance legislation, or simply rising costs. Similar materials can be instantly identified and ranked by 'nearness' using the new 'find similar' tool. Clear comparison charts complement graphical tools to help with these critical substitution projects.

CES Selector 2013 offers enhanced tools, used during the early stages of design, for rapid assessment of the environmental impacts of products across their complete lifecycle. Responding to user feedback, the Eco Audit™ Tool now provides not just life cycle energy usage and CO2 footprint, but new interactive charts that give the designer instant feedback on the environmental implications of changing material or process choices. The software can also suggest strategies for improving environmental performance.

CES Selector and its associated tools draw both engineering and environmental information from Granta's MaterialUniverse™ (providing *complete* material

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property data for nearly 4000 records, covering virtually all purchasable engineering materials and related processes). Continued expansion of this unique dataset has, this year, particular impact for those interested in lightweight design with extended coverage of composites, Al and Mg alloys, and high strength steels.

Those involved in lightweight design also benefit from enhancements to the Hybrid Synthesizer™, which enable the modeling of advanced multi-material hybrid systems including multi-layer materials and short fiber reinforced composites.

CES Selector 2013 includes a number of additional productivity, user interface, graphical, and data enhancements - full details are available on the product website.

"CES Selector 2013 greatly strengthens its offering for those working with metals, and reinforces its selection and substitution capabilities across the full range of materials," commented Granta's Chief Operating Officer, Dr Patrick Coulter. "We're pleased to be able to meet the needs of our customers in industry and research in this way, while also adding new tools in two areas that they continue to highlight as important: lightweight design and eco design."

CES Selector, MaterialUniverse, Hybrid Synthesizer, and Eco Audit are trademarks of Granta Design Limited

LINKS TO FURTHER INFORMATION:

Granta: www.grantadesign.com

CES Selector: www.grantadesign.com/products/ces/

Full details of CES Selector 2013:
www.grantadesign.com/products/ces/whatsnew.htm

Supporting images: www.grantadesign.com/news/media.htm

Image captions:

The new 'Find Similar' tool allows you to easily identify drop-in replacement materials in cases of material obsolescence, restricted substance legislation, or simply rising costs.

Powerful graphical analysis tools support material selection for lightweight design.

Dynamic comparison charts in the Eco Audit Tool help assess the environmental implications of materials, processes, and life scenarios.