### **AUCOTEC** press release

9 September 2014



# Consistent harness design for hundreds of thousands of variants

Database-driven CAE system covers the complete workflow

At the European key trade fair for automotive suppliers IZB in October, Hanover-based Aucotec AG presents its comprehensive engineering solution for harness design in the automotive sector. It supports the massively increased complexity of wire harnesses arising from the ever-increasing number of electronic vehicle components. The solution makes the gigantic variant diversity of the customer-specific wire harnesses (KSK) counted upon by the large, successful OEM's, easily manageable.

For planning this variety of configuration options, which amount to hundreds of thousands, Aucotec offers, with Engineering Base (EB), a system that maps the full complexity of harness design with all of its relationship knowledge. This is made possible by a central data model that covers the complete workflow, from the wiring-independent 150% system design via the 150% cable diagram and data output in the KBL-XML standard down to laying and layout in 2-D and 3-D as well as finally the deployment of the actual individual KSK data relevant for manufacturing. Derived documents such as form board layout or parts lists are generated automatically – and all that without system breaks, multiple entries or manual supplements. Sources of error do not occur any more, and the data quality increases in spite of distinct time economy.

#### Synchronous project processing

Hundreds of modules, plugs and splices, several kilometers of cable, more than 1,000 individual lines: all disciplines involved access this centrally stored data. EB immediately recognizes and marks changes in each of the planning stages, they can be retrieved by everybody involved anytime. This enables synchronous project editing by several users. EB also supports asynchronous, site-independent operation in different installations, e.g. at suppliers' premises, via an efficient delta management.

#### **Efficient manufacturing**

In addition to supplying data relevant for manufacturing, EB supports harness design manufacturers also via an automated analysis of the manufacturer-specific modularization and the resulting structuring of the production. This kind of work could formerly cost several man weeks. EB offers the relevant information at the push of a button.

Aucotec at the IZB: Hall 3, Stand no. 3501

Figure 1: The complete harness design process combined in one tool Figure: Aucotec AG

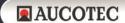
Figure 2: 3-D Zoom: routing in the front end Figure: Intec GmbH

If printed, we would appreciate receiving a copy. Thank you very much!

AUCOTEC AG, Hannover / www.aucotec.com

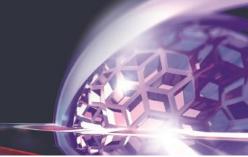
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**Aucotec AG** develops engineering software for the complete life cycle of machines, plants and mobile systems – with almost 30 years of experience. The solutions range from flow diagrams via process control and electrical engineering for large-scale plants to modular harness design in the automotive industry. Over 40,000 Aucotec software systems are in use worldwide. Aucotec AG, with headquarters in Hanover, also comprises two



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additional German development centres in Frankfurt and Constance, four regional distribution and support subsidiaries as well as a global network of subsidiaries and partners.

