

Effectivity of the application of experimental and simulation methods in the development of NVH measuring stations in industrial production (EoL Testing).

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Abstract:

The competence center for acoustics and vibration (PED-VAU) of BSH in Kosice is a provider of services in the area of NVH development of drives, drive systems as well as complete devices for BSH company and for the parent company, Robert Bosch GmbH.

Evaluation of both acoustic and vibration properties of products by the subjective judgment (e.g. by an operator at production) is today insufficient and needs to be replaced by an objective measurement.

One area of PED-VAU activities is development of complete NVH measurement stations for the so called "End of Line Testing" of products in serial production. Complexity of activities includes derivation of a measurement procedure, sensors up to dynamic properties of a complete measurement system.

In the framework of development of NVH measurement stations there is a significant interconnection between experimental and simulation methods in the structure of the PED-VAU centre.

In so doing it is possible to considerably reduce development times and increase efficiency of development itself.

Complexity of the whole development chain will be presented on the example of one drive unit from Robert Bosch GmbH.

About the speaker:

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