

Top secret: electronics integration centre

This article reflects the status at the time of its publication. The content may since have become outdated.

07/01/2015 Construction of the Weissach test site in 1961 marked the beginning of the development centre's success story. Our series offers a glimpse behind those doors that normally remain closed. Part Four: the electronics integration centre.

Evolution in the electronics development is marching on at a rapid pace. Today, for instance, there are some 6,000 functions in a Porsche noticeable to the driver. In order to develop these functions more efficiently and manage them along the entire supply chain, the Porsche experts are now working even closer together in the new Electronics Integration Centre (EIZ).

Previously, the electrical and electronics departments were spread across twelve different sites in Weissach. Now all the subdivisions are united under one roof in the EIZ. The distances between colleagues have become much shorter, with the workplaces of the approximately 570 employees now

being no more than 30 metres apart. The 50 to 80 interlinked control units in a vehicle have to function smoothly. “This is why the integration process is the core competency of our developers and gives the new building its name,” says Uwe Michael, Head of Electrical and Electronics Development.

The architecture of the EIZ building is purposefully geared to the closely linked interaction between engineers and developers. It organizes the process in phases and divides the EIZ into its different storeys, thus ensuring a smooth workflow routine.

The individual steps of the process are built up as follows: specification and implementation of sub-functions on the upper floors, testing and qualifying under racetrack conditions – a task cutting across all areas – on the middle floor, and on the ground floor work on the individual components in the workshops.

The sound lab, too, is located next door. Communication between the audio acoustics engineers with their colleagues in the other specialist departments results in an experience of sound with concert hall quality – the acoustic highlights of which are the high-end Burmester sound systems integrated in the vehicle.On the ground-floor level the engineers additionally swap ideas with the mechanics and external suppliers. “The Integration Market Place is a spot where the electrical, electronics and software experts work together,” explains Michael. “After all, the EIZ not only links up the technology, but the people as well.

All those involved in vehicle development work together in one building. Thanks to the EIZ, Porsche is ideally equipped for the latest challenges posed by electromobility and the connected car.

Link Collection

Link to this article
https://newsroom.porsche.com/en/innovation/engineering/top-secret-electronics-integration-centre-10721.html

Media Package
https://pmdb.porsche.de/newsroomzips/1deb4603-f88b-49cf-91e8-50c42d8b5d31.zip

Dr. Ing. h.c. F. Porsche Aktiengesellschaft
Porscheplatz 1
70435 Stuttgart