

Rail Breakage



ABENGOA

Abengoa is developing a unique system in the world for the monitoring and detection of rail breakages on high speed lines in real time. This system allows to detect breakages in any of the four rails of a high-speed twin-track line and their location.

Key data:

Typology:

equipments experimental development



Participating companies:

Abengoa in collaboration with Adif



Research bodies:

Alcala de Henares University



Finance:

Centre for the Development of Industrial Technology (CDTI)



En colaboración con:



Carril Roto (Rail Breakage) is an R&D&I project, developed by Abengoa Inabensa in collaboration with Adif (Railway Infrastructure Administrator), which allows a real-time monitoring and detection of rail breakages, as well as the simultaneous supervision of the four rails of a high-speed twin-track line.

Every equipment monitors at least 15 km of double-track sections. The system also allows the location of the area where the rail breakage occurs; it has a system of self-diagnosis of the state of the main components of the equipment and remotely monitors the status of the equipment and its measurements or diagnosis.

The breakage of a rail of a high-speed line can have serious consequences, including loss of life. Therefore, detection and localization projects such as the one developed by Abengoa are vital both for the maintenance of infrastructures and for the safety of people.

