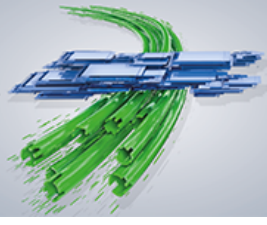




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**INNOVATIONS  
AND TRENDS**



## Variable gauge OGI axles for freight



OGI AXLE: Prototype



OGI AXLE: Gauge changeover facility

In order to solve the problem of breaks of gauge between the different railway networks in rail freight, the consortium composed by Azvi, Tria and OGI, as well as Adif, has developed an automatic variable gauge system made up of variable gauge axles and a gauge changeover facility. The variable gauge axle approval process set forth by the Spanish ETH standard is verified and certificated by Bureau Veritas, the entity responsible for publishing the evaluation report. Currently, the OGI axles have successfully completed laboratory tests and on-track tests as well as 100,000 km in phases I and II of the in-service tests set out in the standard, and they will obtain provisional technical approval for commercial operation.

### OGI AXLE

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Subject to further change