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**INNOVATIONS  
AND TRENDS**



## Amberg IMS with GNSS: Satellite- and IMU-based surveying technology



Amberg IMS 3000 with GNSS option for as-built track survey



Changchun-Baicheng line (China): Improved driving comfort thanks to IMS 1000 with GNSS from Amberg

Thanks to Amberg's cutting-edge IMS measurement technology combined with GNSS, reconstructing missing control points and track design information has become fast and easy. In 2015, Amberg were the first to equip a manually operated track surveying instrument with an IMU module and ever since, they have continuously developed this technology. To add a GNSS module was a logical evolution to make the work of surveyors even more efficient: the instrument can now provide the required 3D track data needed to automatically generate a 3D model of the track alignment and 3D coordinates of the newly created control points (compatible with BIM platforms and CAD systems). With the help of the Amberg Rail software, surveyors can make the most of their data: analyse the track geometry, calculate the Track Quality Index (TQI), produce reports and much more.

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Subject to further change