



Mer Mec unveils tunnel gauging system

MER MEC unveiled a high-performance tunnel inspection system at the Association of German Railway Engineers (VDEI) International Exhibition of Permanent Way Technology (IAF) on April 21.

T-Sight 5000 is a high-resolution clearance profiling system capable of recording detailed data and tunnel wall conditions while travelling at up to 200km/h. All objects inside the cross-section are scanned by a laser beam and reflected in the camera.

As the object moves through the laser beam, contour slices are accumulated to build up a complete image of the object, which can then be viewed and analysed on board the train.

The system is capable of measuring an area up to 8m from the centre of the track, meaning it also measures other parameters such as ballast profile.

T-Sight 5000 will initially be tested on a high-speed diagnostic vehicle operated by Swiss Federal Railways (SBB).