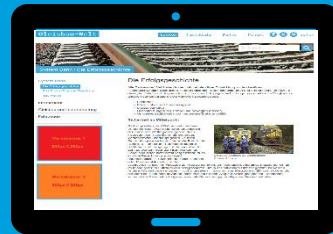
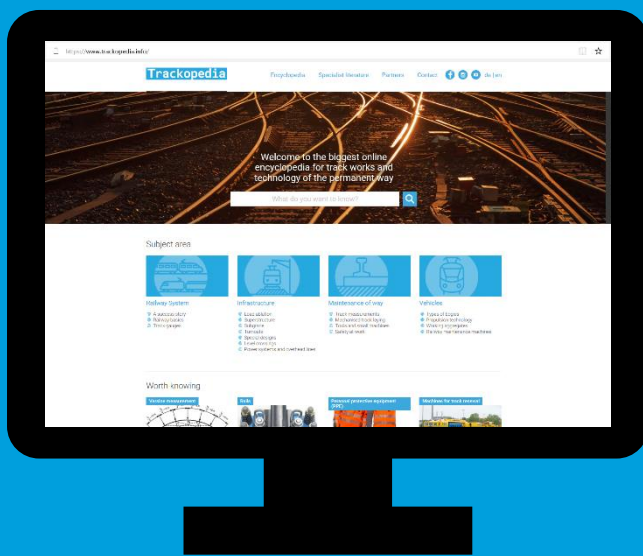


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Maintenance of way / Track measurements / Geodetical measuring

Geodetical measuring

Geodetic pre-measurement with total station and track measuring trolley

When pre-measuring with a total station and a track measuring trolley, the track position is recorded by geodetic surveying. This measuring method is particularly suitable if the quality of the reference point field must be checked. This enables the identification of incorrect reference points in addition to the track surveying.

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In classical geodetic surveying, the total station is usually mounted on a tripod next to the track and its position is determined by free station setup (resection). Horizontal directions and vertical angles as well as distances to several known reference points are measured by electronic distance measurement directed towards with a prism. For this purpose, at least three track-marking points should be measured. Each further measuring point leads to an overdetermination, which enables conclusions to be drawn about the quality of the reference points.

After the position of the... recorded as a three dim... which simultaneously r... built track position and...

With integrated measur... as-built position with t... gets an impression of t... addition, the track tang... synchronization of the t...

Modern total stations can automatically detect and track a prism and continuously provide the measured values (tracking). With this mode it is possible to continuously record the position of the track while the track measuring trolley is constantly pushed. The measured values are stored fully automatically in the predefined point interval.

Precondition for a successful measurement is an unhindered aiming of the prism by the total station. The area that can be measured from one position depends on the surroundings of the track. Refraction (e.g. by air flickering) can also limit the transmission of the measurement signal. For this reason, it is

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