RAILWAY SURVEYS

WE WORK WORLDWIDE

RAPID, SAFE CAPTURE

We are increasingly using laser scanning to survey railway infrastructure. The latest laser scanners capture full 360° scans, capturing millions of survey points in just a few minutes, with accuracies of better than 5mm.

The use of laser scanning means that bridges can often be gauged from the cess without having to access the track.

We have the ability to mobilise our workforce at short notice and we are used to working at night within possessions where time is at a premium.

CONFIDENCE

Ensuring that pre-fabricated components will fit

For the rail sector, we have scanned bridges, tunnels and abutments and provide the data in many formats.

DETAIL

For rail infrastructure such as tunnels, platforms and overbridges, laser scanning provides detailed scans & can be used for deformation analysis

Using the latest technology, we can generate cross-sections through tunnels, overbridges etc, for gauging analysis. The data can be supplied in SCO format for input into ClearRoute.

MONITORING

Repeat surveys facilitate precise deformation and movement monitoring

Finite Element Analysis - structural components and beams can be scanned (for example: a railway bridge girder after an incident) to analyse beam deformation.

INTEGRATED

We use the latest technology

Merrett Survey provide a complete survey solution and augment laser scan surveys with other technologies, including aerial LiDAR, GPS and direct measurements where required.

DELIVERING

- *2D and 3D topographic drawings*
- *Tunnel deformation analysis*
- *Rail alignment data in MX format*
- *Sections, elevations, & profiles*
- *Surface deviation reports*
- *Vertical/horizontal clearances*
- *Movement monitoring*

MERRETT SURVEY

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