

IN-SITU ASSESSMENT / AS-BUILT APPROVAL

The dibit tunnel scanner system provides a complete geometrical and visual depiction of the recorded tunnel surface at a specific time. Tunnel scanner recordings are a high-quality as-built documentation. The efficient dibit software allows easy, quick and versatile data evalua-

tions. Owners, contractors, designers and construction supervisors can receive objective comprehensive information about the geometry and condition of the tunnel. The dibit tunnel scanner system is highly suited for in-situ assessments and as-built approvals.









APPLICATIONS

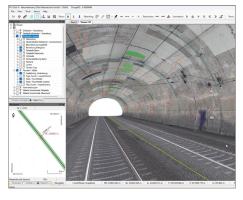
Recording In-situ Assessment

Geometrical Capture of:

- ☐ profiles, e.g. vaults, roadways
- ☐ dimensions, e.g. components, fixtures
- ☐ stations, e.g. joints, niches

Visual Capture of:

- ☐ material zones, e.g. rocks, bricks
- ☐ components, e.g. blocks, joints, niches, tunnel enlargements, rock bolts
- □ rehabilitation arease.g. grouting of cracks
- □ areas of damagee.g. cracks, spalls, water ingresses
- ☐ installations, e.g. cables, pipes, air flaps, sign-postings, security facilities



DIBIT SOFTWARE

- ☐ analysis of the tunnel surface in 2D- and 3D-views
- ☐ complete profile checks
- collision warning at clearance diagram check
- □ exact quantity survey
- ☐ true-color image documentation
- ☐ masking of pipes, cables, etc.
- damage information in conjunction with dibit TIS

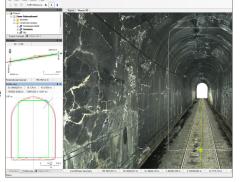
Recording As-built Approval

Geometrical and Visual Capture

☐ The geometrical and visual capture procedure is the same as for an in-situ assessment. In addition, component geometries are checked during a component testing to guarantee that the required specifications are maintained.

Automatic Component Testing

- □ block layers
- $\ \square$ block joints depth and breadth
- ☐ recess depth and breadth



RESULTS

- ☐ comprehensive true-color 3D-model
- $\ \square$ cross sections
- □ contour maps
- □ ortho-images
- ☐ lists of calculation results in Microsoft Excel format



IN-SITU ASSESSMENT/ AS-BUILT APPROVAL



Recording In-situ Assessment

- $\hfill \square$ depiction of the tunnel vault via ortho image
- ☐ capturing of cracks and analysis of crack patterns

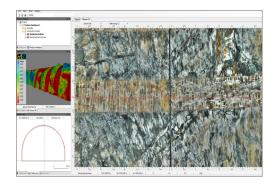


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Recording In-situ Assessment

- \square capture of material zones
- $\hfill \square$ detailed analysis of material conditions



Recording As-built Approval

- capture components of ring joints, concreting sections, niches and electric recesses (see dibit TIS)
- testing components of a particular electric recess with regard to predefined geometry values such as minimum depth

