



RAMBOLL

SURFACE DEFECTS

For over 15 years, consultants and road administrations throughout the world have used Ramboll RST's technique for measuring surface defects. The results provide a basis for planning costefficient maintenance and quality assurance regarding completed pavement works.

Measurement of surface defects with RST system, Laser RST. Automatic cracking provides an objective indication of the road surface condition for cracks and other surface defects. The information can be presented in the form of surface defect or be imported to an existing road information database.

The results can be used:

- for budget purposes and to monitor and forecast road status regarding cracking and other surface damage.
- to identify which objects need to be prioritized for maintenance.
- to evaluate maintenance activities.
- to manage and follow up on construction works.

The Laser RST surveys provide a comprehensive picture of both the road's geometric nature and its surface defects.

The underlying information for assessing the roads and other surfaces, for example airfields and terminal areas—maintenance requirements becomes more reliable.

Laser RST system

The system is based on collecting a 3D image on the road surface at normal traffic speed. The images are collected from a vehicle equipped scan lasers directed to the road surface. The measurement covers up to 4 meters in width and is continuous in the longitudinal direction of the road. As complementary information, the road surface texture is measured with spot laser. It is a robust and proven technology used throughout the world for over 10 years. Measurement data from Laser RST is used for instance by road authorities in Finland, Lithuania, the Netherlands and Hungary.

The pictures taken from the front provide a clear image of both road

surface and surrounding terrain, so that conditions such as road width, ditching, drainage, embankment and cutting can be ascertained. Road equipment such as signposts, railing and lamp posts can be inspected and positioned using the pictures.

Ramboll both builds survey system and undertakes survey projects, where Ramboll's own system is used.

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