



A MOBILE DEVICE FOR TESTING THE MORPHOLOGY OF FLAT, ESPECIALLY CONCRETE, SURFACES

Ideas on utilisation

The subject of the offer is a remote device, equipped with a 3D laser scanner, for testing the morphology of flat, especially concrete, surfaces. The device is remote controlled, which allows its entry into inaccessible places, or places posing a threat to the staff safety, e.g. concrete closed structures, structures filled with substances harmful to health.



Potential adopters of technology

The device consists of a wheeled platform on which a laser triangulation scanner is mounted. The platform is equipped with 7-omnidirectional wheels, which allows it to move freely without changing the direction of the road wheel and rotate the platform around its centre.

Advantages of technology

The main advantage of technology is:

- measurement speed achieved by adjusting the scanning parameters to the measurement requirements
- the measurement area corresponds to the area of pull-off testing (adhesion to tearing off concrete layers)
- initial identification of adhesion to tearing off concrete layers in layer elements
- device mobility, remote control, real time data transfer
- the ability to measure in hard-to-reach, dangerous places

Market and context of technology

The technology will be used where it will be necessary to carry out morphology tests of hard to reach flat surfaces.

Preconditions in adopting enterprises

Not determined