

PAVE-IR SOLUTIONS



THERMAL SEGREGATION-

ONE OF THE LEADING FACTORS IN PREMATURE ROAD FAILURE

THE PROBLEM: THERMAL SEGREGATION

Temperature differentials in asphalt paving, otherwise known as thermal segregation, refers to the differential cooling of asphalt mix during placement. This results in an asphalt mat with uneven temperatures, and can lead to localized failures and a shortened service life for the roadway. On a typical asphalt pavement, thermal segregation can reduce the service life by up to 40 %, taking a serious toll on costs over the long term.

MOBA PAVE-**IR** provides companies and public authorities with the possibility to detect thermal segregation during the paving process, allowing modifications to address the issue. Once action has been taken, continued monitoring can confirm success or dictate further mitigation.

The system generates complete temperature profiles or individual, targeted temperature measurements throughout the entire paving operation.

The current temperatures are displayed and also recorded on the panel. Further post processing of saved data is easy thanks to specially developed software.

With MOBA PAVE-**IR**, companies can prove that, while paving with asphalt, no significant temperature differences occurred and that the material temperatures complied with the specifications throughout the entire paving project. This serves as evidence of quality assurance for agencies and authorities. Minimizing thermal segregation is obtained through best practices in the paving process from the plant through laydown and best practices means a more refined and efficient operation for contractors.

POSSIBLE PROBLEMS - BECAUSE OF THERMAL SEGREGATION

- » Thermal segregation can be the result of material segregation
- » Inhomogeneous compaction or non-uniform densities
- » Additional machine wear
- » Premature road failures
- » Cold chunks of asphalt
- » Bad surface structure
- » Burned hitumen
- » Uneven surface
- » Cold / Hot spots



PAVE-IR SYSTEM THE SOLUTION TO DETECT THERMAL SEGREGATION



ON-BOARD COMPUTER
THE "HEART" OF THE SYSTEM

IR-SCANNER ASPHALT QUALITY CONTROL















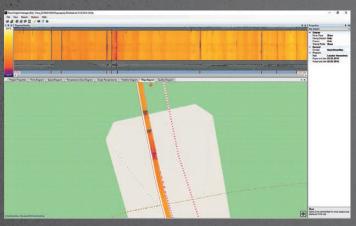


PAVE PROJECT MANAGER THE SOLUTION TO DETECT THERMAL SEGREGATION

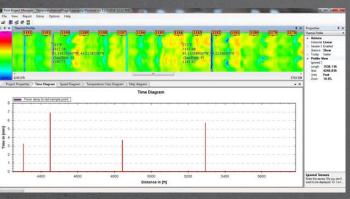
OVERVIEW OF MODULES

- » Time diagram, e.g. for paver stops
- » Quality factor diagram
- >> Speed diagram

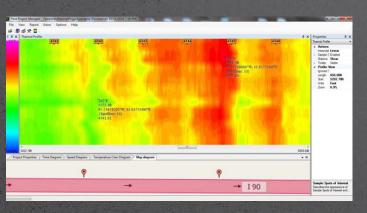
- » Map view
- » Report generation
- >> Export functionality
- >> Future functionalities can be added easily for your needs



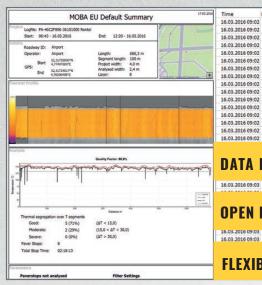
QUALITY FACTOR DIAGRAM



SPEED AND TIME DELAY DIAGRAMS



THERMAL IMAGE

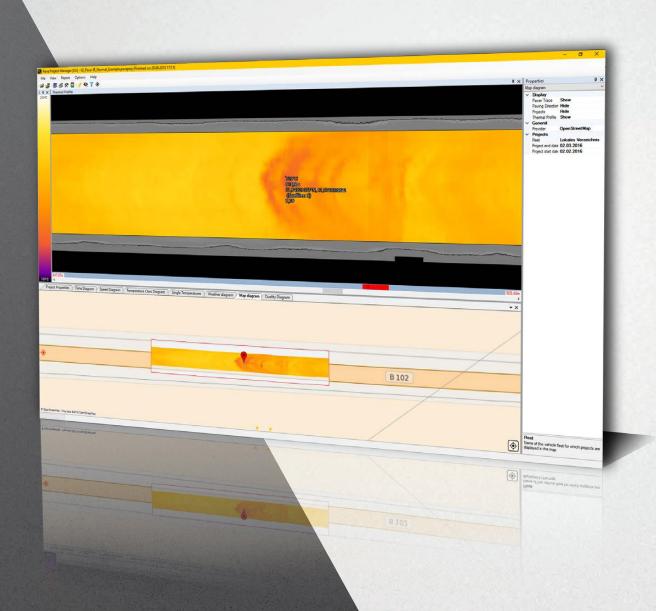


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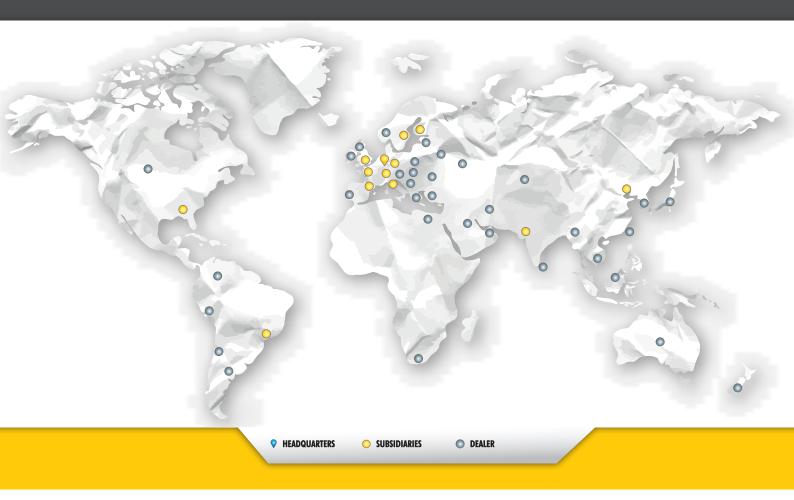
OPEN INTERFACE FOR THIRD PARTIES

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FLEXIBLE MODULES FOR EVERY TASK



ONE GROUP - ONE RESPONSIBILITY



MOBA GROUP

The **MOBA GROUP** is a leading global player in the world of mobile automation. Close collaborations between the headquarter in Limburg an der Lahn and subsidiaries all over Europe, Asia, North and South America create new perspectives for recent and future developments..

Superior technical know-how and more than 40 years of experience combined with an international dealer network guarantee a premium support — worldwide. INSPIRING MOBILE AUTOMATION - this is what the MOBA GROUP stands for since more than 40 years.

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