

MOBA-matic levelling system with new temperature sensor

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Quality and long service life are the definitive goals for machine control systems manufacturers. This applies not just to the development of new products, but also to their deployment on site, for example for the construction of asphalt roads.

A number of research projects on the topic of asphalt paving have lately determined that the temperature of the paving material plays an important role in the quality of results.

That is why MOBA Mobile Automation AG have enhanced their tried and tested MOBA-matic levelling system for asphalt pavers by adding a new sensor so that it can now for the first time measure the material's temperature and display it on the MOBA-matic II control panel while paving work is in progress. The temperature sensors can be installed at different positions on the paver. Either in the hopper, in order to monitor temperature on delivery or in the area of the screed. The material temperature is then measured throughout the paving process. This process will work best where agitated material can be measured.

The sensors are installed using a magnetic mount, and can then relay the temperature information in real time via a small controller back to the MOBA-matic II, where the operator can see it all the time. This eliminates the need to measure temperature manually using a hand-held device. Another benefit is that the user can decide quickly whether to continue to lay the material or to stop paving to prevent damage if the material was found to have cooled down excessively. Thus, temperature fluctuations in the mixture can be detected directly on site and the operator can take counteractive measures to achieve a constant material temperature and thus a better road paving quality.

Press information



Either a single sensor can be used for the two MOBA-matic II control panels, or two separate sensors can be installed, one for each MOBA-matic II.

The new temperature sensor allows you to achieve the goal of monitoring during the whole paving process. This monitoring will begin at the mixing plant and continues in the asphalt hopper. During paving, a PAVE-IR scan system can be added for quality control, thus contributing to a long-term improvement in quality of the road being paved. This system obtains and documents the asphalt temperature during the whole paving process and route which will ultimately extend the service life of the road and reduce costly repairs.

About MOBA

With more than 40 years of experience in the development and manufacture of measurement and control technology, identification and weighing systems for construction machines and waste disposal vehicles, MOBA is a globally recognised expert in the field of mobile automation. MOBA is one of the leading system specialists and OEM partners in the industry. With headquarters in Limburg, branch offices in Dresden and Langenlonsheim as well as eight subsidiaries and an international dealer network, MOBA is present in all large growth markets. Company sales grew over the past decade from 26 million euros in 2004 to more than 54 million euros in 2014; the number of employees increased in this period from 210 to 482.

Press information



The MOBA-matic II display permanently shows the sensor temperature



The temperature sensor can be installed either in the hopper or in the area of the screed

Photos: MOBA

Further information and downloads of press texts and images available at www.moba.de.

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