



AW-LAKE
PROCESS FLOW MEASUREMENT



APPLICATION SPOTLIGHT

Asphalt Paving Machines Use Coriolis Flow Meters



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APPLICATION:

A manufacturer of asphalt pavers wanted to incorporate flow monitoring systems on board different paving machines to ensure the accurate distribution of asphalt liquid during the paving process in order to meet EPA requirements and optimize quality control of the mixtures being applied.

PRODUCT SUPPLIED:

- TRICOR PRO Plus Series Coriolis Mass Flow Meter

CHALLENGE:

The manufacturer features various types and sizes of asphalt paving machinery. In order to install flow monitoring systems to all the different machines, the manufacturer needed a scalable flow metering system with different size meters that would also maintain high performance and accuracy while being exposed to different weather conditions. In addition, the manufacturer was looking for a cost-effective monitoring system for all their machines.

SOLUTION:

The TRICOR PRO Plus was installed deep within the chassis of the asphalt pavers with a display placed in a Hoffman box on the outside. The sensors offered the accurate and highly repeatable output the manufacturer was looking for and with the smallest installation length in the industry to fit in the tight space allowed. In addition, the PRO Plus series provides superior performance and a robust construction making it strong enough to handle harsh conditions created by the asphalt paving machines.

Unit Features:

- High dosing accuracy
- Fast response time for short measuring cycles
- Extremely short installation length for easy installation in limited space of the asphalt pavers
- Immunity to process noise
- High zero-point stability under changing operating conditions
- Fully welded design for use in challenging applications

RESULTS

The cost and the compact nature of the TRICOR PRO Plus Coriolis Mass Flow Meters met the need for a small and cost-effective unit to measure asphalt liquid flow. The sensors offered the flexibility to move from a display output to communicating via an onboard PLC. Since first unit installation, the customer has recommended the sensor to other manufacturers of smaller portable mixers and reflective road line machine producers.

