

**Automated Road Maintenance Machine (ARMM)**

The Automated Road Maintenance Machine (ARMM) has been developed and tested at the University of Texas at Austin. The machine is designed to automatically seal pavement cracks in roadways. The ARMM alleviates many crack sealing problems associated with present crack sealing procedures. The ARMM is operated by the driver of its towing vehicle who views cracks on a touch-sensitive computer screen. ARMM combines computer vision and operator input to map the location of roadway cracks. A traversal path is then generated and output to a computer controlled X-Y-Q mechanism to clean, seal, and squeegee the cracks in a single pass. This unit reduces the crack sealing crew by three persons and removes the remaining crew members from the roadway and passing traffic, resulting in considerable improvements in user costs and safety.

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