

An Automated Roadway Pavement Marker Placement System

Project Team

Stay Alert Safety Services
Detail Technologies
Illinois Institute of Technology

Award

\$499,277



What Is It?

The Automated Roadway Pavement Marker Placement System automates the installation of raised pavement markers on roadways.



Need

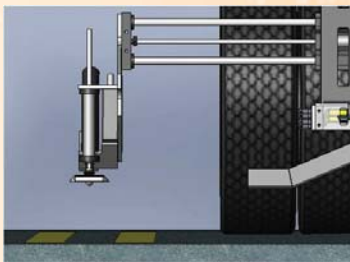
- Traffic delays and vehicle crashes at work zones have resulted in significant economic consequences
- Manual installation of roadway pavement markers is one of the most dangerous activities in the industry

Anticipated advantages to conventional practice

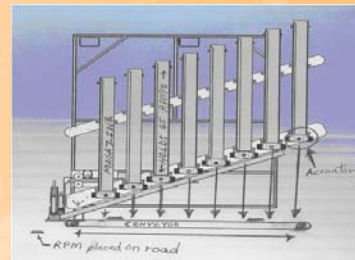
- Removes workers from exposure to traffic
- Reduces congestion by requiring less stoppage on highway
- Cost savings from reduced labor and accelerated installation cycle time

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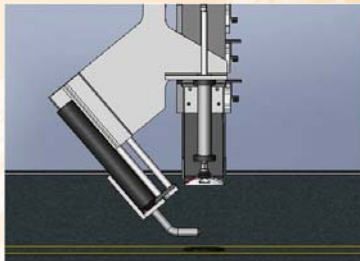
Planned Refinements



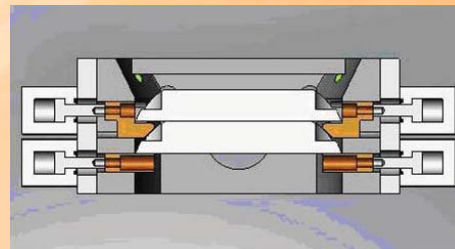
Improved marker delivery system



Redesigned pallet subsystem



Enhanced adhesive subsystem



Improved hydraulic cylinder

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