

**Productivity First-Round Winner**  
Innovations Challenge

**April 2017**

Prepared by Transportation Planning  
Missouri Department of Transportation

## Wheeled Crack Seal Wand



### Description

Sealing large cracks on roadways is an integral component of preserving our roadway conditions to prevent further damage. The Crafco gun is heavy and is hand held by an individual with no additional support to distribute the weight. When you have several miles of cracks to seal, the weight of the Crafco gun causes severe fatigue in the arms and back of the user. The crew developed a wheeled dolly to make the process easier and reduce the stress on an employee's body. The crew started using the wheeled wand in February of 2016. The first job was on US 60 in Webster County. While working on US 60, the Ava facility in the Southeast District observed the sealing wand and asked to use it on Route 5.

### Benefit

The Wheeled Crack Seal Wand improves safety, saves time and simplifies work because the crew can produce a straighter line and can walk longer distances without tiring quickly from holding the weight of the entire gun.

### Materials and Labor

2 hours of staff time with \$20 materials. Diagram on back page.

### For More Information Contact:

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Additional photos or videos can be seen by accessing the Innovations Challenge SharePoint page at: <http://sharepoint/systemdelivery/TP/Documents/InnovationsChallenge.aspx>.

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