



“THE RUTBUSTER”



OVERVIEW OF INNOVATION

"THE RUTBUSTER" is a quick attach implement fabricated for use on a skid steer loader. The multi-use attachment provides for the ability to quickly and efficiently complete a variety of tasks routinely encountered by DOTD maintenance units. Since its inception the device has been used to fill in ruts in asphaltic roadway wheelpaths, pave asphalt shoulders, asphalt roadway/turnout widening, cutting isolated high shoulder locations, placing RAP on shoulders, and to cap small isolated locations with asphaltic concrete (cross drain replacements, base failures, etc.).

The device was designed using the same basic concept as the back end of a standard asphalt paver, including floating side panels along with the ability to easily adjust paving thickness and throat width. In its current configuration the strike off portion of the unit is 50 inches wide for use in conjunction with our 48 inch wide milling machine for the purposes of rutting repair. Optional rear strike off plates can be constructed for desired widths and are easily swapped out in as little as 5 minutes. It should be noted that initial milling is not required and is OPTIONAL based on severity of rutting and desired finished product. When the milling machine is used to repair rutted wheelpaths, you can easily mill, sweep, tack, and lay the hot mix in one continuous train using only one lane closure for the entire operation.

Use of the RUTBUSTER requires minimal handwork and achieves a more aesthetically pleasing finished product. Motor grader tire tracks in the asphalt are a thing of the past. From a material cost standpoint, the design of the apparatus results in an efficiency that is unattainable when utilizing a motor grader for placement. This leads to material cost savings due to the decreased waste and increased yield (LF/Ton). The increased production rate also means shorter duration lane closures, resulting in less inconvenience to the traveling public.

The initial Rutbuster was fabricated from scrap components on the found on the yard. Subsequent units cost about \$800 in materials + ~ 40 man-hours of labor. This extremely innovative attachment fills a variety of needs with a very low cost to manufacture all while utilizing existing equipment already possessed by most maintenance gangs.



BENEFITS

Improved Productivity and Reduced Unit Cost

- Prior method for filling ruts included use of a motor grader with a typical productivity of 500 – 1,000 LF/Day.
- With Rutbuster, productivity improved to ~10,000 LF/Day.
- Productivity with Rutbuster is primarily limited by the efficiency of delivering material to the wheelpath.
- Multiple other applications as described in overview section.

FIND OUT MORE . . .



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- Operations, Equipment, Attachment