

RG72 RotoGrader Job Story

Stone Recovery in Gravel Road Shoulders



RG72 Rotary Cutter Attachment on Caterpillar 140H in Daviess County Indiana

One of Maddock Industries' customers called to report that their actual experience in stone recovery using the RG72 RotoGrader was better than advertised. Instead of recovering \$2,200 in stone per day using the RotoGrader, they reported savings of \$2,400 per day. See page 2 for details.



When Larry McLin, Supervisor, Daviess County Highway Department in Washington, Indiana started looking at the RotoGrader, he focused on potential cost savings available in the process of maintaining the shoulders on the county's gravel roads. He knew from other RotoGrader owners that the machine was capable of milling asphalt, but he realized that if the RotoGrader would produce the kind of savings that he felt was possible in the shoulder operation, the other uses would be a bonus. After delivery and start-up, Larry asked his operator to keep records and try to estimate the amount of stone recovered, on average, on the shoulder maintenance work. In their analysis, the amount of stone, and the resulting costs savings, was higher than the numbers quoted by Maddock Industries, Inc. They calculate a savings of approximately \$2,400 per day in stone that is recovered from the shoulders. With savings like that, it doesn't take long to pay for the RotoGrader.

Stone Recovery in Gravel Road Shoulders		
Assuming	Average width cut on shoulder	2.5 feet
Times	Average cutting depth	3 inches
Times	One mile, one side	5,280 feet
Equals	Cubic feet of shoulder material cut in one mile, one side	3,300 cubic feet
Times	Percent of material that is stone, by volume	33% percent
Equals	Volume of stone per mile, each side	1,089 cubic feet
Times	Average weight of stone per cubic foot	100 pounds
Equals	Pounds of stone recovered per mile, one side	108,900 pounds
Divided by	Pounds per Ton	2,000 pounds
Equals	Number of tons of stone recovered per mile, one side	54 tons
Times	Average delivered price of stone per ton	\$7.00 per ton
Equals	\$Dollar value of stone recovered per mile, one side	\$381 per mile
Times	Average ground speed of machine	1 MPH
Times	Average hours/day of production	6 Hours
Equals	Average \$Dollar value of recovered stone per day	\$2,287 per day

Call Dave Maddock to request literature or video tapes of the RotoGrader in action.
Toll Free 888-825-4300 or see our products at www.maddockcorp.com

