Wheel Loader Frames: Opening Drill®

The customer is drilling wheel loader frames made from A36 structural steel using a MAG Giddings & Lewis horizontal boring mill operating at 125 HP with 400 PSI through-tool coolant.

The customer needed a better way to complete this application. They asked for a solution to decrease cycle time and increase tool life.

The **Opening Drill**® completed the process with only one tool versus the two tools previously needed. The solution also eliminated lost time due to multiple tool changes, saving the customer both time and money.



Product:	Opening Drill®	Measure	Competitor Bores	Opening Drill®
Objective:	(1) Decrease cycle time (2) Increase tool life	RPM	458	732
Industry:	Heavy equipment	Feed Rate	0.006 IPR	0.005 IPR
Part: Material:	Wheel loader frames A36 structural steel	Penetration Rate	2.75 IPM	3.66 IPM
Hole Ø:	4.17"	Cycle Time	3 min 8 sec	1 min 11 sec
Hole Depth:	4.33"	Tool Life	4 parts	9 parts

