



CASE STUDY.

PROJECT PROFILE:

GEN3SYS®

Heavy Equipment

The customer manufactures heavy equipment for the agriculture and construction industries. The customer is machining a tractor component made out of high strength alloy steel using a Cincinnati Lamb with 210 PSI thru-tool coolant.

+ CHALLENGE:

Previously the customer was using a WNT U-drill running at the following parameters: 2008 RPM, 393 SFM, 0.0032 IPR, and 6.4 IPM. The tool drilled a 0.7480" (19 mm) diameter hole to a 3.1496" (80 mm) depth. The tool had a cycle time of 30 seconds and a life of 500 holes. Looking for improvements, the customer wanted to reduce cycle time and increase tool life.

+ OUR SOLUTION:

AMEC recommended the GEN3SYS® High Penetration Drilling System using insert item #5C118H-19 and holder #60718H-25FM running at a speed of 1255 RPM, 246 SFM, 0.014 IPR, and 17.6 IPM. The results of the test were excellent and met the customer's expectations. The GEN3SYS® tooling reduced the cycle time to 10 seconds and increased the tool life by 40% to 700 holes. The customer's goals of reduced cycle time and increased tool life were achieved.

+ PROJECT DATA:

Thanks to the success of the GEN3SYS® tooling, the customer improved their production process by decreasing costs and increasing productivity.



REDUCED CYCLE TIMES