CASE STUDY.

AccuPort 432®

PROJECT PROFILE: Cast Aluminum

An End-user is manufacturing aluminum castings. They are using a Makino A77 with 300 PSI internal coolant. The part being machined is a transmission housing made out of cast aluminum.

REDUCED TOOL INVENTORY

+ CHALLENGE:

Previously the customer was using four tools to manufacture their products. They were using a Dexport insert drill, an L & I reamer, a chamfer, and a spot face. Drilling to a depth of 1.3", they created a hole with a 25 mm diameter. Wanting to improve their production process, the customer needed to reduce the number of tools used, reduce their cycle time, and provide a lower cost per part to their clients. They also wanted to maintain a hole tolerance of +\-.003".

+ OUR SOLUTION:

AMEC suggested an AccuPort432® item #050725-8 running at a speed of 800 SFM, 3100 RPM, and .014 IPR. The results were exceptional. Not only was the AccuPort432® tool able to complete all four operations with just one tool, it also met the hole requirements set by the customer. By eliminating the reamer, the AccuPort432® tool also reduced the tooling applications. Additionally, it increased productivity and provided the customer with a total cost savings of $1,079.82.

+ PROJECT DATA:

Due to the success of the AMEC AccuPort432® tooling, the customer was able to reduce the number of tools used in the application from four to one. Also, they dramatically reduced their cycle time and cost per part.