



CASE STUDY.

PROJECT PROFILE:

EcoCut®

Extension Wrought Aluminum

An End-user is manufacturing RV leveling and extension systems. They are using a Daewoo turning center with 8" chuck with 250 PSI water soluble oil coolant. The part being machined is an adapter for RV room extension rods made out of wrought aluminum.

+ CHALLENGE:

Previously, the customer was using a four step process to manufacture their products. The procedure included a face and turn, a rough drill, a flat bottom mill, and a boring bar. Each process was done with separate tooling and the total cycle time was 45.73 seconds. Looking to AMEC for improvement, the customer wanted to reduce cycle time and tooling costs.

+ OUR SOLUTION:

AMEC suggested using an EcoCut classic style, a 1.5 times diameter 0.787" drill with drill body item #EC 20R-1.5D 10E and insert item #XCET 10T308FN-27P grade H216-T. All of the operations were now being completed with just one tool. The results were excellent. With a cycle time of 22.38 seconds, the EcoCut tooling was able to reduce the machine's cycle time by 23.35 seconds. Additionally, the customer received a total savings of \$2,412.47 or 59%.

+ PROJECT DATA:

Using the new tooling, the customer was able to save a significant amount of money and lower the machine's cycle time. Tooling costs were also reduced since the EcoCut tool was able to complete all the operations compared to the previous process which included four tools.



*REDUCED
CYCLE TIME*