

Success Stories

We would like to share our success with you!



Tool Monitoring - High Precision Power Sensor

Series #: J9111

Product: DTect-IT

The Situation

Industry: Automotive
Machine: Mill-Turn
Control: Mitsubishi
Tooling: 2.7mm drill/3.05mm reamer

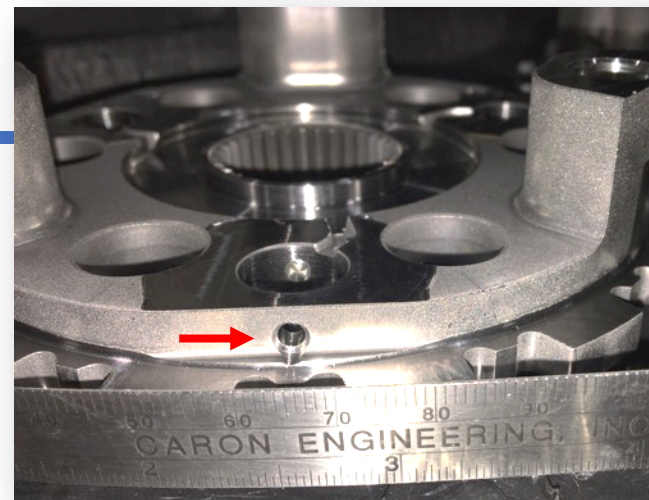
This automotive manufacturer was using a competitor's product to try and monitor a very small drill and reamer cutting cast aluminum. They noticed the monitoring system was slowing the process and adding several seconds to the cycle time for every part.

The Solution

The customer needed a better solution, so they implemented Caron Engineering's versatile sensor monitoring suite, DTect-IT. Using DTect-IT the customer is now successfully monitoring breakage and wear on the drill and reamer that create this hole (pictured right).

For this application, DTect-IT uses a high precision power sensor to measure the cutting loads of the 2.7mm drill and 3.05mm precision reamer, (with the reamer enlarging the hole by .08mm).

DTect-IT is efficiently identifying broken, missing, and worn tools with no negative impact on the part cycle time.



Our cutting-edge machine tool process technologies, coupled with premium machine tool solutions, and our combined support, training, and applications expertise have provided the metal cutting manufacturing industry with unparalleled productivity, reliability, and cost effectiveness.