



## CASE STUDY.

### GEN3SYS®

#### Structural Steel Construction

##### PROJECT PROFILE:

The End-user is manufacturing structural steel components for the construction industry. The customer is machining a structural steel plate made out of structural steel using a Peddinghaus machine with thru-tool coolant.

##### + CHALLENGE:

Previously the customer was using a Kennametal KSEM tool running at the following parameters: 737 RPM, 167 SFM, 0.014 IPR, and 10.32 IPM. The tool drilled a 0.8661" (22 mm) diameter hole at a 0.9843" (25 mm) depth. The tool had a cycle time of 5.8 seconds and a tool life of 1100 holes. Unsatisfied with their current production process, the customer wanted to lower their cost.

##### + OUR SOLUTION:

AMEC recommended the GEN3SYS® High Penetration Drilling System using insert item #5G122H-22 and holder #60322H-25FM running at the recommended parameters of 737 RPM, 167 SFM, 0.014 IPR, and 10.32 IPM. The results met the customer's expectations. The GEN3SYS® tool increased tool life by 15% to 1260 holes and matched the previous tool's cycle time of 5.8 seconds. As a result, the customer was able to decrease their cost.

##### + PROJECT DATA:

Thanks to the success of the GEN3SYS® tooling, the customer was thoroughly satisfied and succeeded in decreasing their costs and increasing productivity.



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