PETERSON TOOL COMPANY
The Cutting Edge of Perfection

RESULTS AT A GLANCE:

Change-Over Time: From 8 Hours to 2 Hours

Real Time Efficiency: 96.1%

Increase of Pieces: 25,328

Scrap Reduction: 95%

Cost Reduction: 23%

CASE STUDY: Auto Industry

The following represents a case study of how Peterson's Thrift® line of products decreased set-up time, increased part through put and reduced scrap for a large automotive industry customer.

CHALLENGE

32 PARTS RUNNING ACROSS 4 MACHINES

Machines: Acme 1 ¼" - 8 w/Acro Feed
Attachment: Acme Form Holders & Slitters Shave Fixture
Tooling: Solid High Speed Dovetail
Part Type: Shafts
Stock Size Range: ½" diameter thru ¾" diameter
Material: 1215
Machine Set-Ups: Averaged 1.6 changeovers each machine per week at 8
Tooling Positions:

8th Position: Feed out
1st Position: Knee Turn/ Form
2nd Position: Form
3rd Position: Shave
4th Position: Thread
5th Position: Shave
6th Position: Thread
7th Position: Cut-off

MANUFACTURING ISSUES

Change-over Time 8 hours
Real Machine Efficiency at 74.3%
96% of Scrapped Parts Due to Threading Issues
Poor On-Time Delivery
Product Containment

SOLUTION

Machines: Acme 1 ¼" - 8 w/Acro Feed
Tooling: Peterson - Type Insert Tooling
Attachment: Peterson ThriftForm® & ThriftShave® Attachment

RESULTS

SET-UP TIME REDUCTION

ThriftChange® Tooling Package reduced change-over time from 8 hours to 2 hours. Change-over time reduction allowed production to drastically improve their on-time delivery for their customer.

IMPROVED MACHINE EFFICIENCY

The customer is currently running at a real time efficiency of 96.1%. This improvement has provided an increase of 25,328 pieces. The manufacturer can now better manage the production requirements against his customer's demands.

REDUCED TOOLING COST

Peterson Insert Tooling provided an 8.4% reduction in the straight tooling cost on the form tools and shave tools annualized over the 1st year (does not include resharpening cost). The tool saving was an unplanned cost savings which provided additional departmental cost improvements.

THRIFTSHAVE® ATTACHMENT

The addition of the ThriftShave® resulted in a 95% reduction in scrap due to diameter and taper variation and an annualized cost reduction of 23% on the thread tooling. While the scrap reduction was factored into the cost savings, the 95% far exceed their planned savings. Their customer removed the containment requirement which provide a substantial savings. The thread tooling cost was another unplanned additional savings.