

# Part and Process Change Save Gun Maker \$17,600/Year

## **PROBLEM**

When the screw holding a rifle bolt won't stay tight, that's reason to worry. Especially when customers are complaining and annual production is 85,000 rifles!



That was the dilemma facing a New England rifle maker.

The company was machining the screw in house then hand applying either nylon strips or plugs in a futile attempt to stop the loosening.

Then the firm reached out to Atlantic Fasteners for help.

## **SOLUTION**

►First, we suggested converting from in-house screw machining to less expensive cold heading by an outside vendor.



►Next we endorsed their idea of switching from a slotted head to a socket head for improved tightening.

►Then we analyzed the mating hole and found it slightly oversized, so the rifle maker ordered new tooling.

Proper torquing of the cold-headed screw into the newly tapped hole stopped the loosening for good!

## **PAYOFF**

**\$17,666**

### **Annual Savings**

Converting from screw machining in-house to cold heading by an outside vendor	\$7,353
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Freed up machining/labor time since nylon no longer had to be applied	\$10,313
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Decreased customer defection, freed up internal resources, and fewer repairs	?
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<b>Minimum total savings</b>	<b>\$17,666</b>
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