Auto Bolt Helps Automotive Client Improve Efficiency with Custom Screw

## **Overview**

An automotive tier stamping and assembly company was experiencing jams on their automated assembly lines with a knurled press screw used in an assembly for an international automotive company. The jam-ups resulted in a loss of efficiency of 30-35% on a daily basis. Although the parts being supplied were technically to the print, a problem existed with their use.

The supplier of the screw did not see a need to make changes on their end since the parts were to print. The manufacturer could not continue to lose production time or invest in new feeding equipment, so they reached out to Auto Bolt for help.

## **Opportunity**

Upon review by the engineers at Auto Bolt, it was hypothesized that the jamming was caused by the edges of the screws stacking-up or overlapping onto one another while feeding into the assembly equipment. The "T" shape of the heads of the parts were formed and had edges that were rounded enough that might allow this happen.

## **Solution**

After a visit to the manufacturer's facility and a review of the assembly process, we quickly confirmed the edge condition of the screw was the issue. A sharper more squared-off edge of the head was needed to allow the parts to feed down the track without stacking up. In order to have a sharp squared-off edge, we proposed trimming the entire head shape.

Auto Bolt manufactured sample parts with the trimmed head. The modified parts were introduced into their existing assembly equipment and the stacking of the heads no longer occurred, thus eliminating the jamming issues on their assembly lines.

# Conclusion

Although the previous supplier produced parts that were technically to the print, Auto Bolt reviewed the assembly process and not just the screw in order to identify a root cause and obtain a solution to their issue.

#### **About Auto Bolt**

You need a partner who gives you a customized approach that starts with quick, accurate quoting and carries through to CAD drawings, die design, and finally, delivery. You need American craftsmanship that delivers value, including better quality and greater durability. You need a partner so you can focus on efficiency and growth of your business.

Auto Bolt will deliver a personalized customer experience that ensures the success of your project. Whether you know exactly what you need and can simply send us your print, or if you need guidance and engineering support, we're there to make the process as seamless as possible. Every day, we deliver highly engineered products at a price you can afford. Move beyond service and enjoy the Auto Bolt Experience.

To request a quote or learn more about the Auto Bolt Experience, visit our website: <u>https://www.</u> <u>autoboltusa.com/request-a-quote</u>



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