

Case Study: Efficient Operations for High-Volume Parts





Customer

? afadHVM[UVVBSdfe? S`gXSUfgdWl

Part

? W65^EZW4

Manufacturing Issue

FZWigdtWfbdtWtefabdaVgUW XhVW[XXXXVfeZWeiSe [`UdWe[`Yfag`SUUMfSTVWdef VMWeS`VbdaVgUf[a`f]_Wez

Customer's Goals

Utilize the WMY el_ ['Sdf[WaXiZWMhWnetal shells to establish a more efficient manufacturing process Xad(""\"" \check{Z})""\"" b[WWV bWK\St\Z

Reduce production times and costs.

Redesign BchUte

The first image sZai eS_ aef [WWf[U\$^eZWeVyWwf XidfZWWwf[Y S`V V_ Wefa`eaXfZWdTaffa_ {bezFZWlzefa_ Wdebdwh[age _ S`gXsUfgd`YbchUwfei Segf[/[][`YeWa`V\$ck_ SUZ[`[`Yfa Ud_ b fZW {b\$XWlefS_ b[`Y-fZ[e_ WZaVi SeVybWefhW\$`Valso YyfWVWfZW bchVgUf[a`f[_ Wz

First, Ultra designed and built the crimping operations into their progressive stamping dies. This required precision forming of the material into the right shape and thinness for the crimping operation to be completed at the opening of the shells. Through bchfafkb[`Yi W egUWeYwk bchhWfZ[e_ S`gXSUfgd`Y_ WZaVWhWWfZWhetal parts SeVWY WZ

Second, we reduced the customer's tooling costs by consolidating their progressive stamping dies from **FIVE to TWO**. This was feasible due to the uniform shape and design of the shells.

- One progressive die was designed to stamp three separate shells that were grouped together because of their similar design and features.
- The second progressive die was designed to stamp the remaining two shells as they were similar.

The key to these stamping dies was the last station. It was designed and built for easy changeover to one of five different custom stations.



Efficient Operations for High-Volume Parts

Customer Outcome



Reduced costs with the removal of crimping as a secondary operation.

Utilizing only two progressive stamping dies both reduced costs and simplified the production process.

Watch the servo press deliver greater control and production rates for this customer.