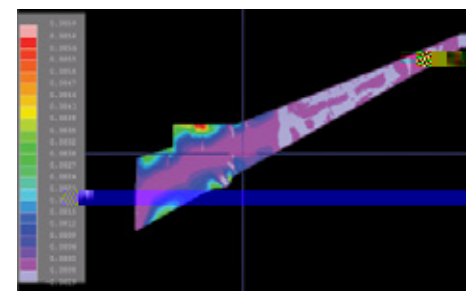
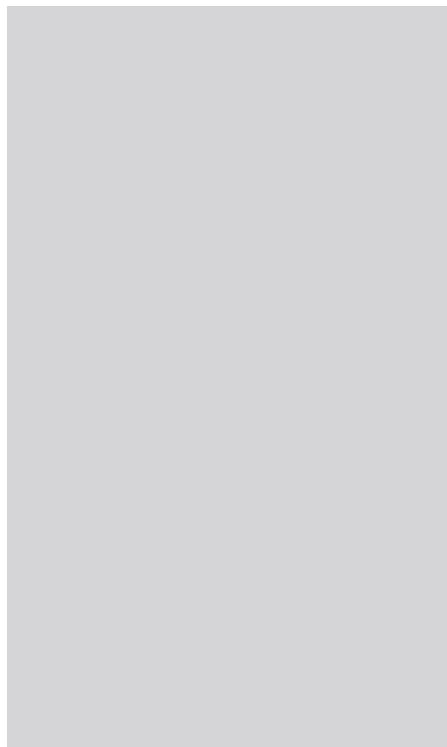


Shot Peen Forming & Laser Peen Forming

The process is ideal for forming wing and tail plane panel shapes for even the largest aircraft with complicated boundaries and variable thicknesses. It is best suited for patterns depending on the different thicknesses and the contour required. Residual compressive stress acts to elastically stretch the surface and it will bend or "arc" towards the peened side.

The resulting curvature will force the lower surface into a compressive state. Typically aircraft wing skins have a large surface area and thin cross sectional thickness. Therefore, significant forces are generated from the shot peening residual stress over this large surface area.



Curtiss-Wright Surface Technologies utilises

