



Godfrey & Wing Inc.

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### **SHOT PEENING**

Shot peening is a method of cold working in which compressive stresses are induced into the surface of a metal part by subjecting it to impingement of spherical metal shot under very controlled conditions. It is similar in effect to that a peening 'hammer' leaving behind small indentations in the surface of the metal.

These indentations result in a zone of residual compressive stress (RCS) in the surrounding subsurface area of the indentation as the material attempts to return to its original shape. This RCS is the key characteristic in preventing fatigue failures, the most prevalent reason shot peening is specified. Shot peening is also used to prevent stress corrosion cracking, galling and fretting.

Whether it is shot peening of automotive springs, pump crankshafts, locomotive components or aviation wheels, Godfrey & Wing has the right combination of controlled peening equipment, media and capacity to meet the most stringent AMS or customer specification. Our processes are registered to ISO/TS 16949 and approved by most major OEMs. Our peening machines are some of the largest east of the Mississippi and canpeen parts 3 feet in diameter and 8 feet tall.

For more information on our capabilities or for specification assistance please contact us today.