



A Contour Precision Group Company

REMOVE COATINGS FROM TURBINE COMPONENTS WITHOUT DAMAGING THEM AND LOWER YOUR COSTS.

The Clean & Green Solution

A Precision Abrasive Waterjet (AWJ) Process is higher quality and more cost effective than traditional acid stripping and grit blasting.

Superalloy components require coating systems to protect the base metals from the extraordinary operating environments of gas turbines. These tenacious coatings are designed to resist the oxidation and corrosion created by the combustion process in the turbine hot gas path. These coatings also resist removal when they become depleted during operation.

Most modern hot gas path coatings consist of a ceramic thermal barrier coating (TBC) on the outer surface and a “bond” coat between this TBC and the base metal. Typically, acid stripping and grit blasting of these bond coatings from superalloy components can cause both metallurgical and dimensional damage.

Acid stripping and grit blasting of MCrAlY bond coatings of vanes, blades, shrouds, liners and transition pieces are destructive processes. Exposure to acid can result in part stress, alloy depletion, corrosion cracking and pitting. Grit blasting can cause uneven material removal and thinning of the parent material. And there are the environmental issues that are becoming increasingly important.

The Abrasive Waterjet (AWJ) process is the cleanest, most efficient, most repeatable process for removing MCrAlY coatings from hot gas path components. The process removes the coating without compromising the base metal integrity. There is no intergranular attack or other issues and it is environmentally friendly. AWJ is gaining wide acceptance as the preferred method for the factory of the future.

When you want to remove coatings from turbine components without damaging them and lower your costs, be sure to specify a Precision Abrasive Waterjet (AWJ) Process.

Compare stripping processes to see the difference.



AWJ precision process cleans better, protects better and extends useful part life lowering total cost.

