

Aircraft Engine Overhaul Maintenance

Section 6

Pressure blast wet blasting reduces costs through the elimination of hand finishing, brushing and chemical cleaning methods. The quality and appearance of engine components which are Pressure Blasted are also markedly improved.

Here is a partial listing of proven Pressure Blast applications in maintenance work:

- Removal of carbon, lead, grease, lime, dirt, varnish, etc., from pistons, connecting rods, valves, valve springs, carburetion equipment, manifolds, etc. No preliminary degreasing, chemical cleaning or brushing is required.
- Honing and de-burring supercharger components, water pump impeller vans, etc.
- Blending of directional grinding lines and machining marks on gears, gyroscope components, etc. In gear work 90% of the normal gear train noise may be eliminated and backlash reduced.
- Honing of cylinder walls prior to chrome plating and also increased lubrication retention following the porous chrome process. For those installations doing their own plating, lead anodes are quickly and economically cleaned of lead oxide formations by Pressure Blast wet blasting.
- Preparation of surfaces prior to lubricating, cadmium or silver plating. Polishing of discolored silver plated surfaces.
- Honing of crankshafts, camshafts, and other engine components for the removal of feather and wire edges resulting from machining or polishing procedures. Cleaning prior to regrinding reduces grinding time and prolongs wheel life.
- Removal of "smeared" or "amorphous" metal resulting in a surface which allows easy visual inspection for cracks or flaws.
- Polishing of propeller blades. Elimination of hand polishing. Blending of pits, scratches and marks. Imparts satin, non-reflective surfaces.
- De-burring and finishing of threaded parts insures good fit and turn ability.
- Finishing of all bearing or mating surfaces for the reduction of the coefficient of friction resulting in longer bearing life.
- Cleaning of sparkplugs with no gap distortion.
- Cleaning prior to fluorescent penetrate inspection processes.