

## Increase process speed, improve cleaning, and be cost effective



*Forging Press provides extreme pressure to shape the desired part*

### What is Forging?

Forging is a manufacturing process where metal is pressed, pounded or squeezed under great pressure into high strength parts known as forgings. The process is normally performed hot by preheating the metal to a desired temperature before it is manipulated.

Forgings provide superior strength and reliability for many industries from automotive, aerospace, valves, fittings, hardware and ordinance. Non-Ferrous forgings including brass and copper provide an added benefit of resiliency, durability and corrosion prevention. Non-ferrous aluminum forgings have another dimension of high strength-to-weight ratio and excellent energy efficiency for the finished goods.

### The Pain:

We were approached by this aluminum forging company that needed to maintain or increase process speed, improve cleaning and be cost effective. The current process and chemistry was not removing the residual oxidation left on the part after their annealing process. Hubbard-Hall's technical team, working closely with the manufacturing engineers developed Lusterlume ALB 4.

As a result, production volumes now exceed 1.5 million pieces, a 15% increase over the existing system.

### Why Lusterlume ALB 4?

Lusterlume ALB 4 is a mildly acidic, concentrated liquid burnishing compound. It can be used with most standard mass finishing equipment, to process brass, steel, zinc, and aluminum. Lusterlume ALB 4 is suited to a wide variety of parts.



*Aluminum billets tumbled with media and Lusterlume ALB-4*

## Special Features

- ❖ For Use with Vibratory and Barrel Mass Finishing Equipment
- ❖ Contains a Unique Blend of Conditioning Agents
- ❖ Provides Excellent Lubricity for Superior Burnishing
- ❖ Conditions Metal Surface Prior to Electroplating
- ❖ Detergency for Light to Moderate Oil & Grease Removal
- ❖ Inhibits Corrosion and Tarnish



***Finished aluminum rifle receivers:***

***Left: Before vibratory cleaning process***

***Right: Superior results after vibratory cleaning with Lusterlume ALB-4***