

Plasma Cleaning Helps Keep Vintage Fighter Planes Flying High

■ A partnership with TriStar gives you a competitive edge.

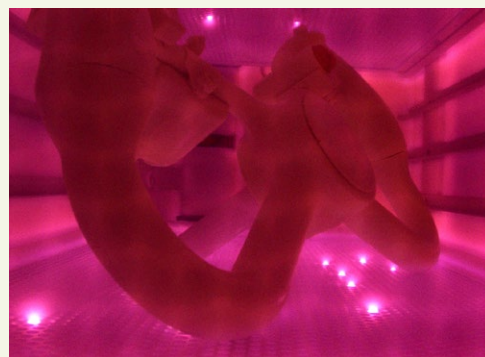


Our client designs replica control yokes; the type seen on P38 military fighters that are in high demand by military collectors.

Our [Plasma Surface Modification Division](#) has been busy this summer with a host of interesting bonding applications. But one stands out above the rest; when we helped a molding company improve manufacturing of their replica military components.

The yokes are made of cast urethane, and placed into a mold that is sprayed heavily with silicone to facilitate easy release of the finished part. The problem was that the silicone was working too well as a release agent; it was allowing the dry part to slip from the mold, but it was also preventing paint to adhere to the finished surface.

Essentially the silicone was good for mold release, but bad for paint application! Plasma modification solved this dilemma.



Control yoke part in plasma chamber.

The Solution? Plasma Treatment

Our plastic experts recommended adding plasma surface modification to micro-clean the components before application of the paint.

Plasma thoroughly cleans devices to allow for better adhesion of finishes, as well as offering a host of other [manufacturing benefits](#).

Since adding this step to their production line, our client reports that they have eliminated paint cracking, flaking and other adhesion problems.

Plasma has increased the durability of the paint coating so that it can withstand years of handling and will hold visual authenticity for collectors.

[See how plasma modification can improve your manufacturing process!](#)

TriStar is a long-time partner to the military, and we were honored to work with a company that honors this legacy.

We're ready to put our engineering expertise to work for you from prototype to production.

Engineering | Custom Fabrication | Manufacturing



CJ Composite

- Self-Lubricating
- Low weight | High Strength
- Chemical Resistance
- Direct replacement for Bronze



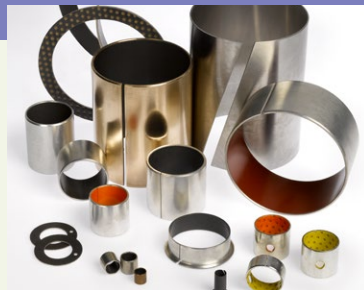
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- 54,400 PSI Compressive Strength
- Exceptional Resistance to Vibration and Impact



TriSteel[™]

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- 100% Lead Free



Rulon[®]

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- Low weight | High Strength
- Low Coefficient of Friction
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Enhanced Materials Division

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