



AIRCRAFT ENGINES





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VISALIA, CA

## *Options and Extras*

### *Cylinder Porting*

We specialize in custom cylinder porting for improved performance, better efficiency, and more consistent temperatures from cylinder to cylinder. We offer CNC porting for Lycoming 360/540 parallel-valve cylinders, and hand-porting services for most other Lycoming and Continental applications. FAA approved for both certified and experimental aircraft.



### *Crankcase O-Ring Modification*

Our proprietary crankcase sealing system utilizing a CNC machined o-ring receiver groove makes your troublesome and annoying engine oil leaks a thing of the past. STC approved for most Lycoming applications, and available for many Continental engines in experimental aircraft. A permanent solution for an age-old problem!



### *Alodined Cylinders and Parts*

To help protect your investment against the elements, we offer Alodined cylinders and parts to protect against corrosion and provide long-lasting beauty. Cylinders usually combine the Alodine finish on the top half with a black painted finish on the lower portion for improved cooling ability.







Ly-Con, along with NFS Inc. has designed and manufactured thousands of NFS pistons for more than 20 years.

With over 1500 engines built with 10:1 or higher compression. NFS pistons are custom-forged and CNC machined in America. Manufactured with "Ultra-Crown" which is a digital 3-D crown machining process, and "Ultra-Groove", which provides the flattest ring groove possible. Designed using Finite-Element-Analysis to computer model stress and fatigue before entering production. Available in a variety of compression ratios for most Lycoming and Continental applications in all popular bore sizes and custom sizes upon request.



### *Special Coatings*

Several different types of coatings are available for many different applications. Pistons can be treated with a dry-film lubricant coating on the skirt area for reduced friction and wear, as well as better oil retention during periods of extended storage. The piston dome can be ceramic coated for improved thermal protection for the piston, while retaining more heat within the combustion chamber for improved performance and efficiency. Valves, cylinder heads (combustion chamber) and many other components can be treated as well.



### *Lightweight Components*

Lighter is better! From lightweight starters, to fully CNC machined flywheels, we have many ways to help you save weight and improve performance. Please contact one of our specialists to see what we have available for your engine.



### *Custom Paint and Chrome*

Stand apart from the crowd! Custom painted cases and parts are available on request. When combined with our numerous chrome and polished parts that we offer, you'll have an engine that will make people say "WOW!" when you open the cowl!



## Dyno Test Cell

Ly-con's two dyno test cells stay very busy. Each engine we overhaul is run and carefully tested to assure proper break-in and promote ideal ring sealing. Computerized data acquisition allows us to keep a close eye on vital engine parameters and be quickly alerted to anything unusual. Our dyno facility also allows us to develop all of our performance parts efficiently and without guesswork. We **KNOW** what makes a difference!



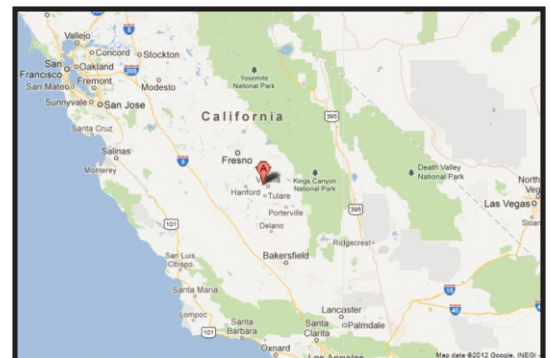
## Other Services:

We are not only a full-service engine overhaul shop, we also manufacture a variety of specialty parts for high performance experimental, aerobatic, and racing applications. Many of these parts are CAD designed in-house and manufactured on our Haas 5-axis CNC machining center for the ultimate in consistent quality. Our R&D team has a long track record of developing premium quality parts to solve a variety of problems.



## About Us:

Ly-Con is located in Visalia, in the heart of California's central valley. We have earned a reputation for building the highest quality aircraft engines and parts since 1980. Sport aviation enthusiasts, airshow performers, and race pilots all over the world insist on Ly-Con quality to exceed their performance needs. We're ready to help, contact us today!







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