



NEW AIRCRAFT ENGINE PRODUCTS MANUFACTURED BY ECI



## NEW FAA-PMA Replacements Cylinder Assemblies for various TCM Direct Drive 470/520/550 Series Engines

**EXCLUSIVE**

Exclusive features not found on OEM or other PMA cylinders.

### Casting Surface Texture

Efficient cylinder head cooling — minimizes valve sticking and cylinder head cracking.

### Fin Width and Spacing

Optimum cylinder head cooling prolongs cylinder life.

### Calibrated Intake Port

Use of a calibrated flow bench during manufacturing is standard procedure for all TITAN cylinders — assures engine performance.

### Stainless Steel Exhaust Studs

Stainless steel locking type exhaust studs.

### Tru-Bore™ Valve Guide

Precision finished valve guides — reduces unscheduled maintenance costs.

### High-Chrome Cast Iron Exhaust Valve Guides

Improved wear resistance helps maintain good cylinder compression ratios and peak horse power output during the life of the engine.

### Fuel Nozzle Boss Bushing

Prevents major structural cracks from developing and facilitates injector removal and installation during inspections.

### Shell Molded Casting

A manufacturing process that produces dimensional accuracy and improved metallurgical properties.

### Venturi Intake Seats

TITAN 470 and 520 series cylinders come standard with Venturi intake seats.

### Plateau Bore Finish

A 2-step honing procedure creating a finish of plateaus and subsurface valleys essential to ring break-in — lubrication of the ECI moly-filled top compression ring and bore interface system.

### Piston Identification

Engine type identification on piston to ensure correct installation.

### Nickel+Carbide™ Bore Coating

Warranted against premature wear and corrosion for sixty (60) months — no other cylinder bore carries a warranty of this magnitude.

### Anti-scuff Coated Piston Skirt

Prevents scuffing during engine break-in; ring seating and cylinder life are enhanced reducing costly top overhaul.

### Moly-filled Top Compression Ring

Scuff resistant and self-lubricating — easy break-in, longer ring life, less bore wear. Metallurgically matched to the Nickel+Carbide bore for optimum compatibility.



ECi warrants each Nickel+Carbide™ Cylinder Bore to remain free of corrosion and wear up to 5 years following date of first operation. No other cylinder manufacturer offers a warranty against corrosion.

Consult ECI's written warranty policy for details. Visit [www.eci.aero](http://www.eci.aero). TITAN Cylinder Assemblies include all reciprocating parts except piston pin and rocker arms. Gasket set included. Piston and rings fitted and installed.

For more information on our TITAN Cylinder Assembly line, please contact ECI today and request booklet #M105 entitled [What You Should Know About TITAN Cylinder Assemblies by ECI](#).

SALES HOTLINE

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ECi is recognized for Quality Management System Compliance to ISO 9001:2000

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## Engine Components, Inc.

ECi® is an internationally recognized general aviation manufacturer of FAA-PMA approved replacement parts for Lycoming and Continental engines since 1943. ECI and EC Services (FAA Certified Repair Station #AG2R689K) are ISO 9001:2000 compliant – maintaining an effective Quality Management System based on the ISO 9001:2000 international standard. ECI provides the GA industry with an extensive line of FAA-PMA approved products and services, including: TITAN® cylinder assemblies, camshafts, connecting rods, crankshafts, crankcases, gears, pistons, ring sets, valves, guides, seats, springs, sumps, and much more. ECI is a premier worldwide supplier of certified engine parts.

## New TITAN® Cylinder Assemblies

### **New Head - New Barrel - New Product**

Manufactured to Higher Standards for Extreme Durability™

The TITAN cylinder incorporates unprecedented design, metallurgical and manufacturing improvements over traditional cylinder design. As the name implies, the all new TITAN brand of FAA-PMA cylinders from ECI stands head and shoulders above all competing cylinders currently available in the market.

Armed with state-of-the-art digital design technology, ECI engineers re-examined every feature of previous cylinder designs. Manufacturing methods were carefully studied to improve product consistency and reduce unnecessary costs.

After design review and retooling, the TITAN Cylinder Assemblies were subjected to hundreds of hours of testing in ECI's calibrated test cell and comfortably passed all testing which was designed to exceed FAA and OEM requirements.

The new TITAN brand cylinder assemblies are much more than a random assortment of new parts. The list of features and benefits is impressive. Just take a look at the illustrated cylinder assembly.

For more information on ECI products and services, please visit our web site at [www.eci.aero](http://www.eci.aero) or contact Customer Service for your free TITAN booklet (item #M105) entitled What You Should Know About TITAN Cylinder Assemblies by ECI.

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