



**NEW AIRCRAFT CYLINDER ASSEMBLIES**  
**Angle Valve 360/480/540 Series**  
**NEW HEAD - NEW BARREL - NEW PRODUCT**  
 Manufactured to Higher Standards for Extreme Durability

**Exclusive features not found on OEM cylinders.**

**Casting Surface Texture**

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

**Calibrated Intake Port**

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

**Venturi Intake Seat**

Creates improved air flow and more horsepower.

**Optional 14mm Spark Plug**

Allows for installation of experimental electronic ignition systems.

**Fin Width and Spacing**

Optimum cylinder head cooling prolongs cylinder life.

**Shell Molded Casting**

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

**Plateau Bore Finish**

A 2-step honing process creates a finish of plateaus and valleys essential for ring break-in and lubrication of the ECi moly-filled top compression ring and bore system.

**High-Chrome Cast Iron Exhaust Valve Guides**

Improved wear resistance helps maintain good cylinder compression and peak horse power output throughout the life of the engine. TITAN® cylinders are not subject to the 400-hour mandatory inspection specified in Lycoming's S.B. 388.

**Tru-Bore™ Valve Guides**

Precision finished valve guides – reduces unscheduled maintenance costs.

**Increased Critical Wall Thickness**

Increased thickness in the combustion chamber and thread band region. The right amount of metal in the right place – no better cylinder is on the market today.

**Head/Barrel Interface**

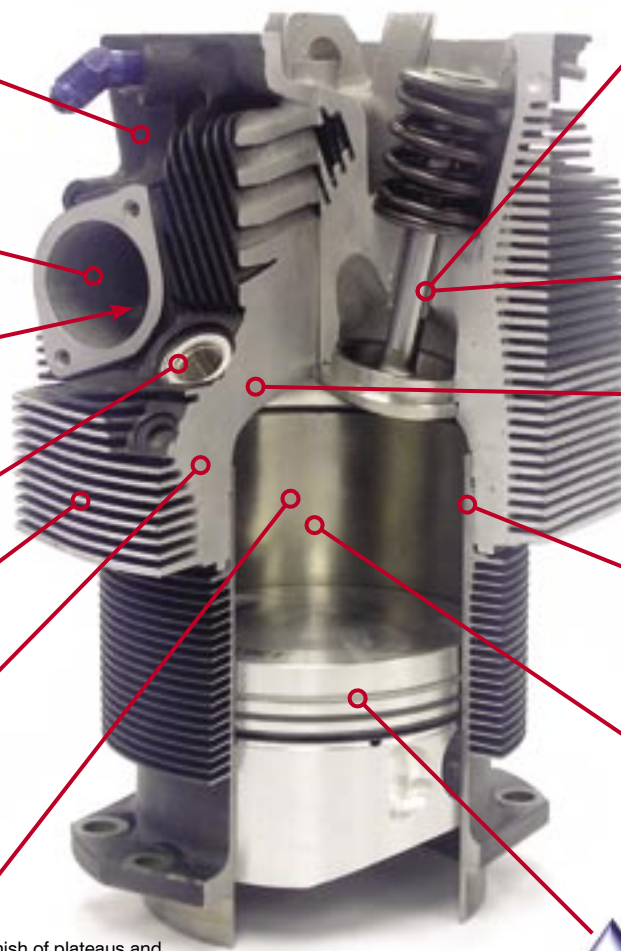
Optimized strength through extensive lab testing and verified through engine testing.

**Nickel+Carbide™ Bore Coating**

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

**Moly-filled Top Compression Ring**

Scuff resistant and self-lubricating – easy break-in, longer ring life, less bore wear.



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.**

**TITAN® EXP™ Angle Valve Cylinder Assemblies**  
**FOR EXPERIMENTAL ONLY**

	360 Series		480 Series		540 Series	
Compression Ratio	7.3:1 / 8.0:1 / 8.7:1		7.3:1 / 8.0:1 / 8.7:1		7.3:1 / 8.0:1 / 8.7:1	
Spark Plug Boss (top/bottom)	18mm/18mm (standard) 14/14, 14/18, 18/14 (optional)		18mm/18mm (standard) 14/14, 14/18, 18/14 (optional)		18mm/18mm (standard) 14/14, 14/18, 18/14 (optional)	
Barrel	Narrow Deck/Long	Wide Deck/Long	Narrow Deck/Short	Narrow Deck/Long	Wide Deck/Long	
ECi Cylinder Classes*	11, 25	13, 14	21, 22, 23	11, 25	13, 14	

\*For more information, please refer to ECi's Cylinder Class Reference Manual at [www.eci.aero/crm](http://www.eci.aero/crm).

TITAN® EXP™ Cylinder[] installed.[]

**ENGINE COMPONENTS, INC.**

9503 Middlex San Antonio, TX 78217 | Tel 210.820.8101 | Fax 210.820.8102 | [sales-service@eci.aero](mailto:sales-service@eci.aero)  
 ECi is recognized for Quality Management System compliance to ISO 9001:2000.  
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**ECi SALES HOTLINE**  
**1-800-ECi-2FLY**  
**1-800-324-2359**

[sales-service@eci.aero](mailto:sales-service@eci.aero)

For a complete list of experimental parts, visit [www.eci.aero/exp](http://www.eci.aero/exp)

