



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 (optional)		18mm/18mm (standard) 14/14, 14/18, 18/14 (optional)		18mm/18mm (standard) 14/14 (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, 54, 55	

*For more information, please refer to ECi's Cylinder Class Reference Manual at www.eci.aero/crm. TITAN® EXP™ Cylinder Assemblies include all reciprocating parts except piston pin and rocker arms. Gasket set included. Piston and rings fitted and installed. Cylinder Assembly is supplied unpainted. Primer is applied to barrel exterior as a base for paint and for corrosion protection.

ECi SALES HOTLINE
1-800-ECi-2FLY
1-800-324-2359

sales-service@eci.aero

For a complete list of experimental parts, visit www.eci.aero/exp



ENGINE COMPONENTS INTERNATIONAL

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 ECi is recognized for Quality Management System compliance to ISO 9001:2000.
 FAA Joint Aviation Authorities JAR-145 Acceptance Certified JAA/MAINTA 10/93-L530. ©2011 ECi. M251 (06/30/2011)





Engine Components International

ECi® is an internationally recognized distributor of general aviation products since 1943. ECi and EC Services offer certified repair services (FAA Certified Repair Station #AG2R689K) for certified and experimental replacement parts for Lycoming and Continental engines. ECi is 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 TITAN® EXP™ (ECi Xperimental Products) and TITAN FAA-PMA (certified) 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. The new TITAN KitEngine™ for the 320/340/360 series engines features ECi's TITAN EXP cylinder assemblies with ECi's exclusive Nickel+Carbide™ bores, guaranteed up to 5 years.

New TITAN® EXP™ Cylinder Assemblies

The TITAN EXP cylinder incorporates unprecedented design, metallurgical and manufacturing improvements over traditional cylinder design. As the name implies, the all new TITAN EXP brand cylinders from ECi stand head and shoulders above all competing cylinders currently available in the market.

The new TITAN EXP 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 service, please visit our website at www.eci.aero/exp or contact Customer Service.

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SALES HOTLINE

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