

Dynamic Energy Systems

Combustion Engine Valve System

Patent # 7,089,893

Patent # 7,278,496

For Internal Combustion Engines



Efficient Performance Engines

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Research & Development

Rotating Shaft Valve Systems

Advantages:

- Increased Horsepower
- Significant Efficiency Gains
- Less Pollution
- Cost effective
- Optimal performance
- Virtual Gas Tight Operation
- Cam-less Valve train

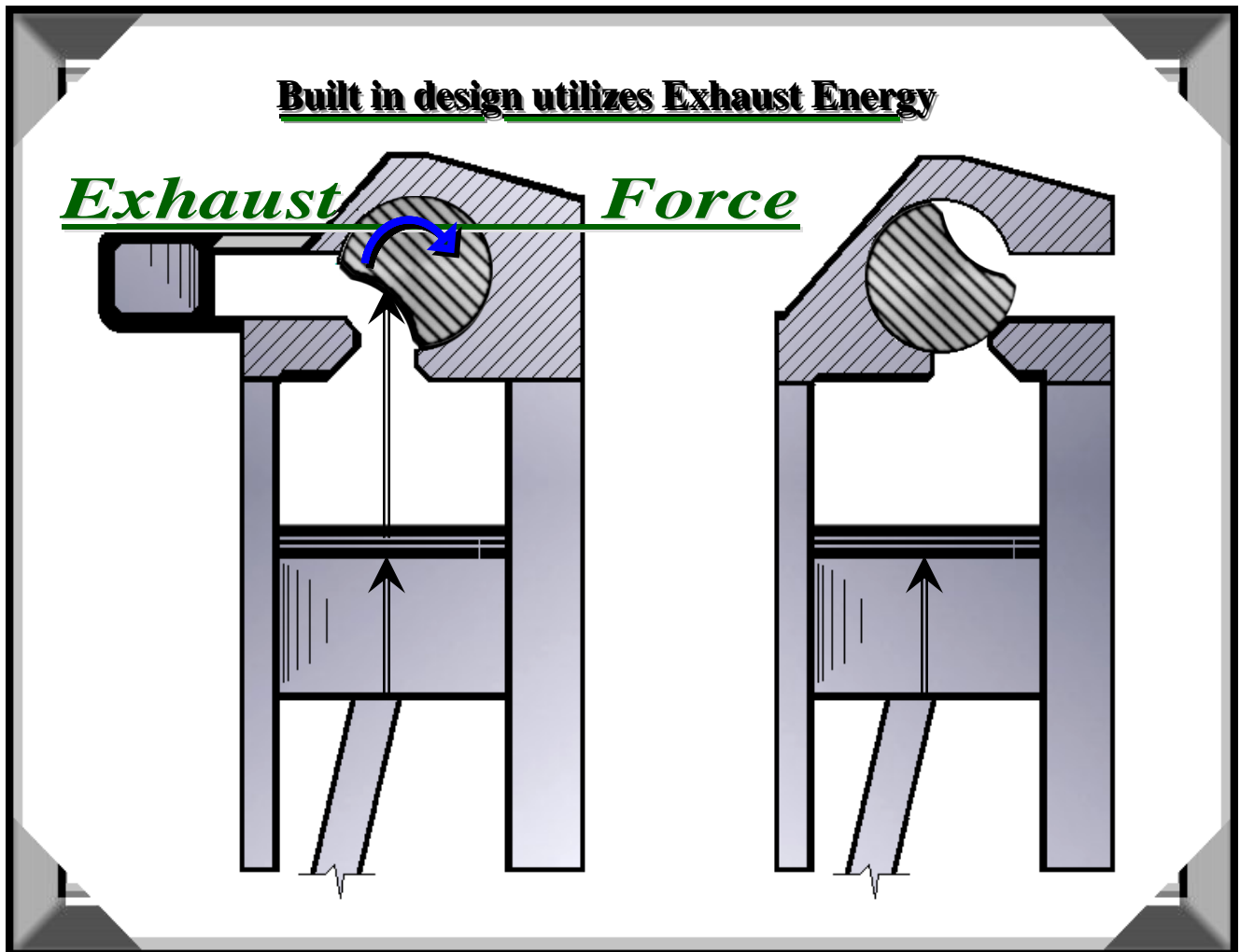
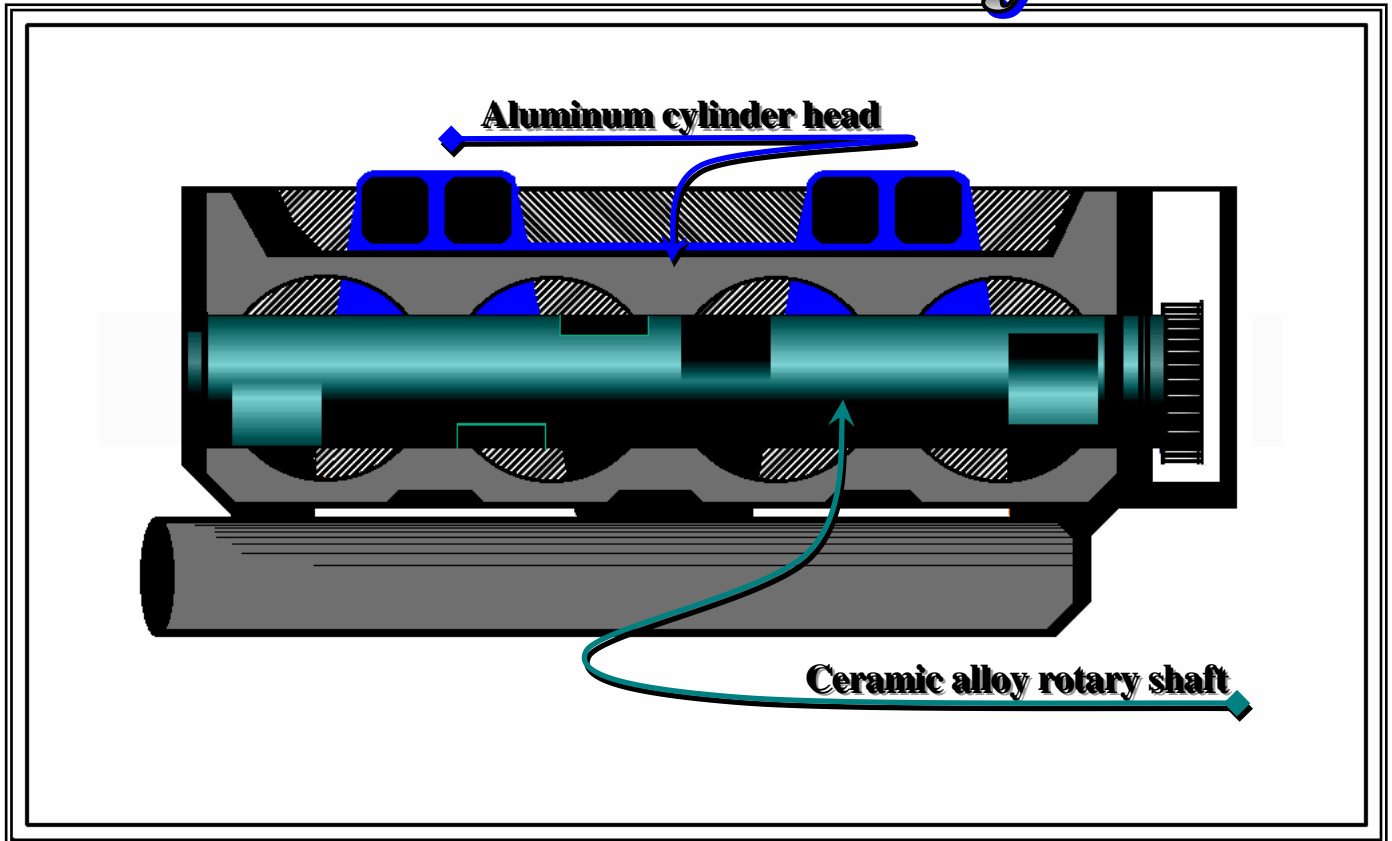
The TurboValve System

The advantage of Rotational Shaft Valve Systems is the design has a dynamic operation. With advanced materials such as ceramics it is now possible to make rotary valves effectively gas tight. A minimum amount of moving parts doesn't require oil as the ceramic alloy has lubrication "built in". There's no energy needed to actuate valve springs. No valve float at high engine R.P.M. Direct intake and exhaust operation facilitates significant efficiency gains.

→→ Built for →→
Efficient Performance.

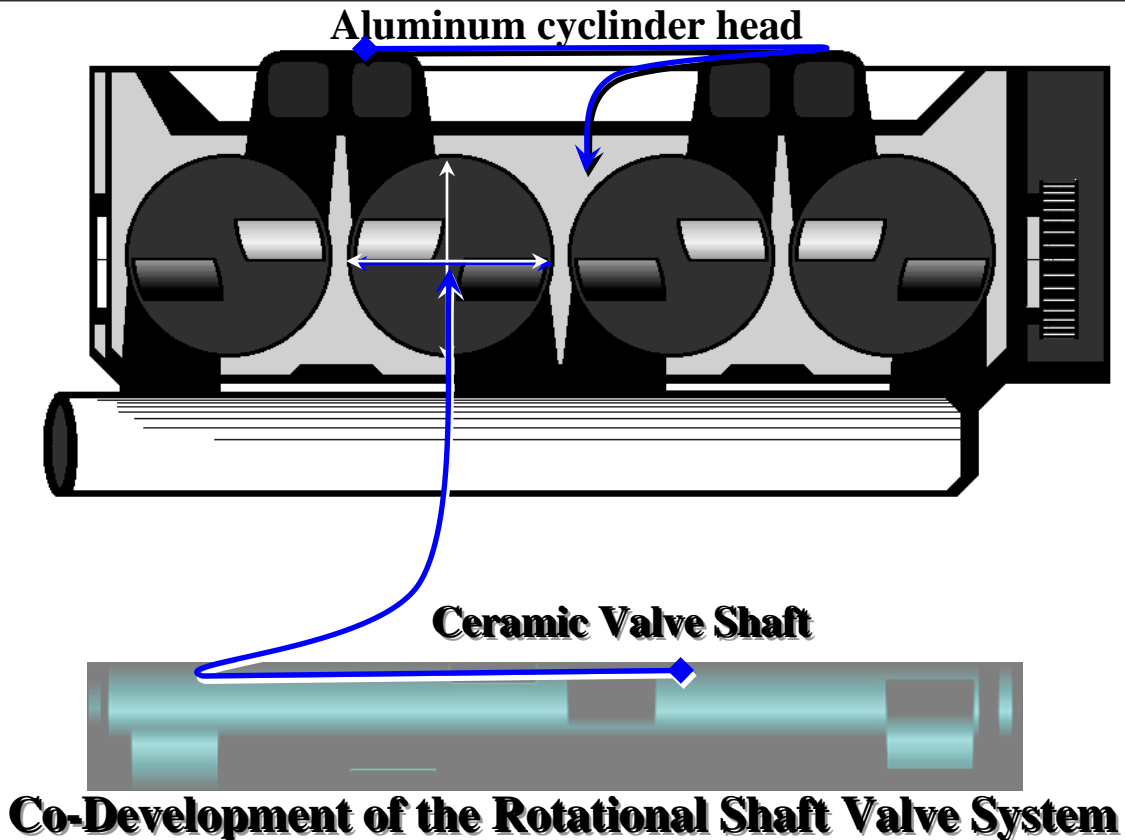
Ceramics is the enabling technology which allows direct fuel/air and exhaust flow.

Turbo Valve System



Untapped Energy within the Engine

Efficient positive pressure Valve System



Significant Efficiency Gains

Use Less Fuel – Keep the Horsepower

Less Pollution

Cost effective and Reliable

Rotational
Shaft
Valve System