

THE FREEDOM TO FLY™



 **DeltaHawk®**



THE FREEDOM TO FLY JUST REACHED NEW HEIGHTS.

DeltaHawk just raised the bar in the general aviation engine industry. We're talking major improvements in terms of reliability, durability, and safety that provide extraordinary performance and reduced costs.

WHY DELTAHAWK?

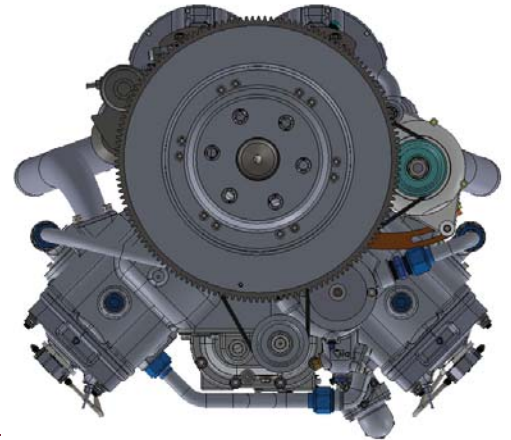
Designed by pilots, for pilots and purpose-built for aviation. The engine's unique design features allow planes to continue flying, regardless of air, fuel, cooling or electrical system failures.*

No other general aviation engine is as reliable, lightweight, compact, or easy-to-maintain as DeltaHawk's game-changing DH180 engine. **Isn't it time you experienced The Freedom to Fly?**

FEATURES	BENEFITS
Burns Jet-Fuel	<ul style="list-style-type: none"> • Available worldwide • Less expensive
High Fuel Efficiency	<ul style="list-style-type: none"> • Up to 40% more fuel efficient than gasoline engines • Greatly improved range • Higher non-fuel payload • Lower cost of ownership
Direct Drive, No Gearbox	<ul style="list-style-type: none"> • High reliability • No gearbox to maintain • Lower cost of ownership
Air, Fuel, and Cooling Redundancies	<ul style="list-style-type: none"> • High reliability • Highest level of safety
Low Parts Count	<ul style="list-style-type: none"> • Reduced maintenance • Reduced downtime • Lower cost of ownership
Smaller Size	<ul style="list-style-type: none"> • Improved packaging • Lower aerodynamic drag
Reduced Weight	<ul style="list-style-type: none"> • Greater payload

*No engine can guarantee 100 percent reliability; as with any engine concern, the aircraft should be landed as soon as practical.

LIGHTWEIGHT 180 HP HEAVY FUEL ENGINES



TECHNICAL DESCRIPTION

BENEFITS	
Configuration	V4 Two-Stroke, Direct Drive
Displacement	202 cu in/3.3 ltr
Bore x Stroke	4 in x 4 in/10.2 cm x 10.2 cm
Ignition	Compression
Induction	Piston ported, turbo and supercharged, intercooled
Dry Weight	~340 lbs/154 kg (includes starter, turbo, exhaust, alternator)
Dimensions (LxWxH)	33 in x 24 in x 22in/84 cm x 61 cm x 56 cm
Oil Pump	External mechanical gear-type
Supercharger	Roots-type
Mount	Modified conical/bed
Accessory Pads	2 Incl std: vacuum pump, propeller governor
Thrust Bearings	Bi-directional; pusher or tractor operation
Configuration	Horizontal, vertical model available in the future
Power@ 2700 RPM	180 HP/134.2 kW SAE (net)
Torque	350 ft-lbf/475 N-M @ 2700 RPM
Max RPM	2700
Starter	SkyTech 24V
Alternator	Plane power 70 Amp (higher power options available)
Prop Governor	All standard may be used (not included)
Type	Mechanical injection
Delivery Fuel Pump	Mechanical gear
Injection Pumps	4 (1 per cylinder)
Fuel Types	Jet A & Jet A-1 Certification fuels, JP5, JP8, D1, D2, JP-8+100, F-24
Oil Capacity (Dry Sump)	~ 6 qt/6 ltr sump dependent
Coolant Type	Dexcool or equivalent
Coolant Capacity	~ 6 qt/6 ltr (installation will vary)
Oil Filter	Remote spin-on CH48109-1
Fuel Filters	30 micron pre-filter/2 micron final filter

**TOMORROW'S
POWER PLANT
IS HERE.**

180 Horsepower

340 Lb/154 kg

Heavy Fuel Operation (Jet-A)

**Upright, Inverted and
Vertical Shaft Models**

Exceptional Fuel Economy

Simple and Reliable

**Redundant Systems for
Flight Reliability**

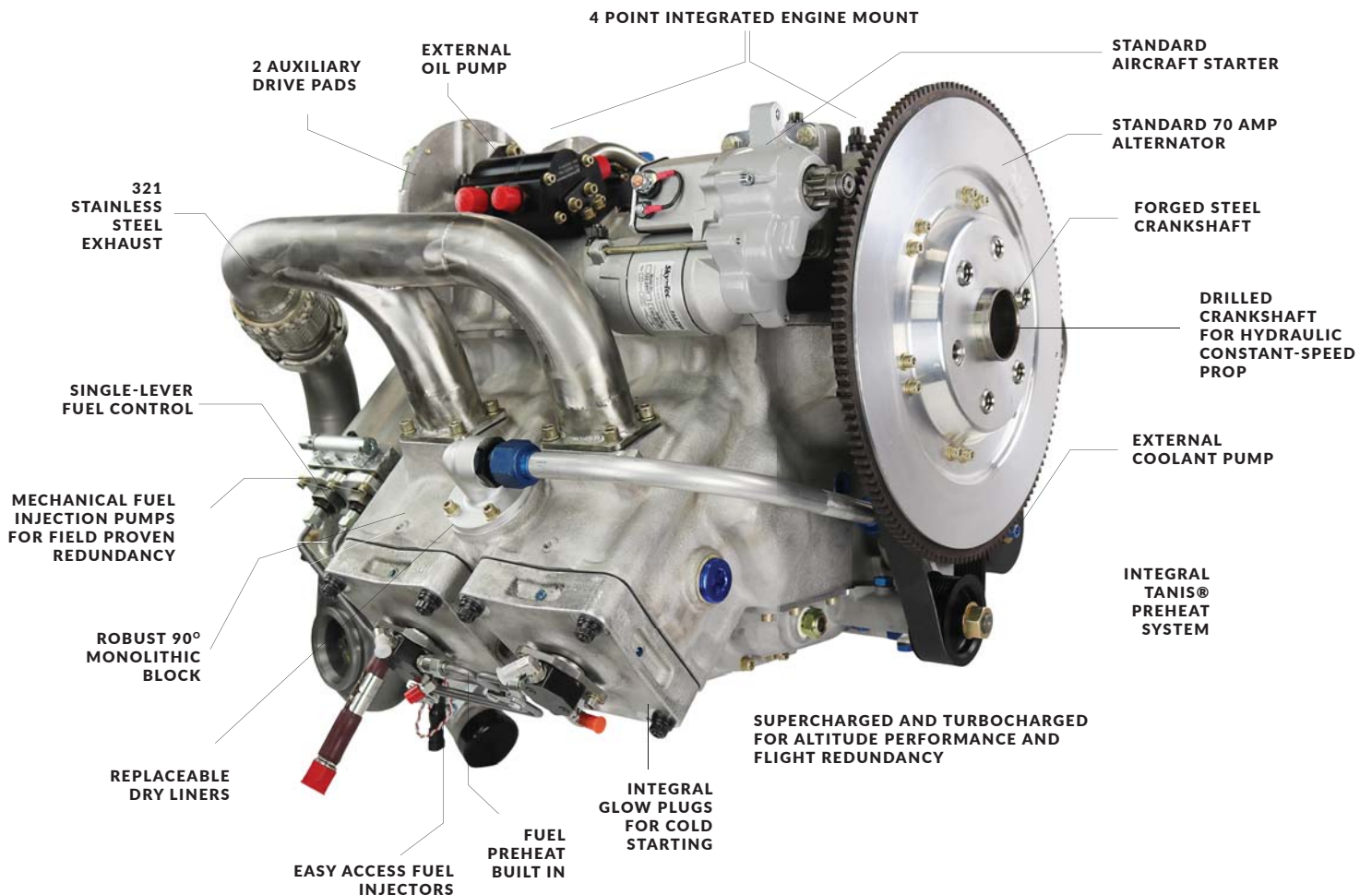
**Thermal Stability Through
Liquid Cooling**

**Patented & Proprietary
Technologies**

DELTAHAWK DH180A4

Jet Fueled Piston Power for the New Century

- 10.4 GPH @ 180 HP (100%)
- 7.5 GPH @ 135 HP (75%)
- Upright, Inverted and Vertical Shaft Models
- Uses Most Common Jet and Diesel Fuels
- Service-Friendly, Externally Mounted Critical Components



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