

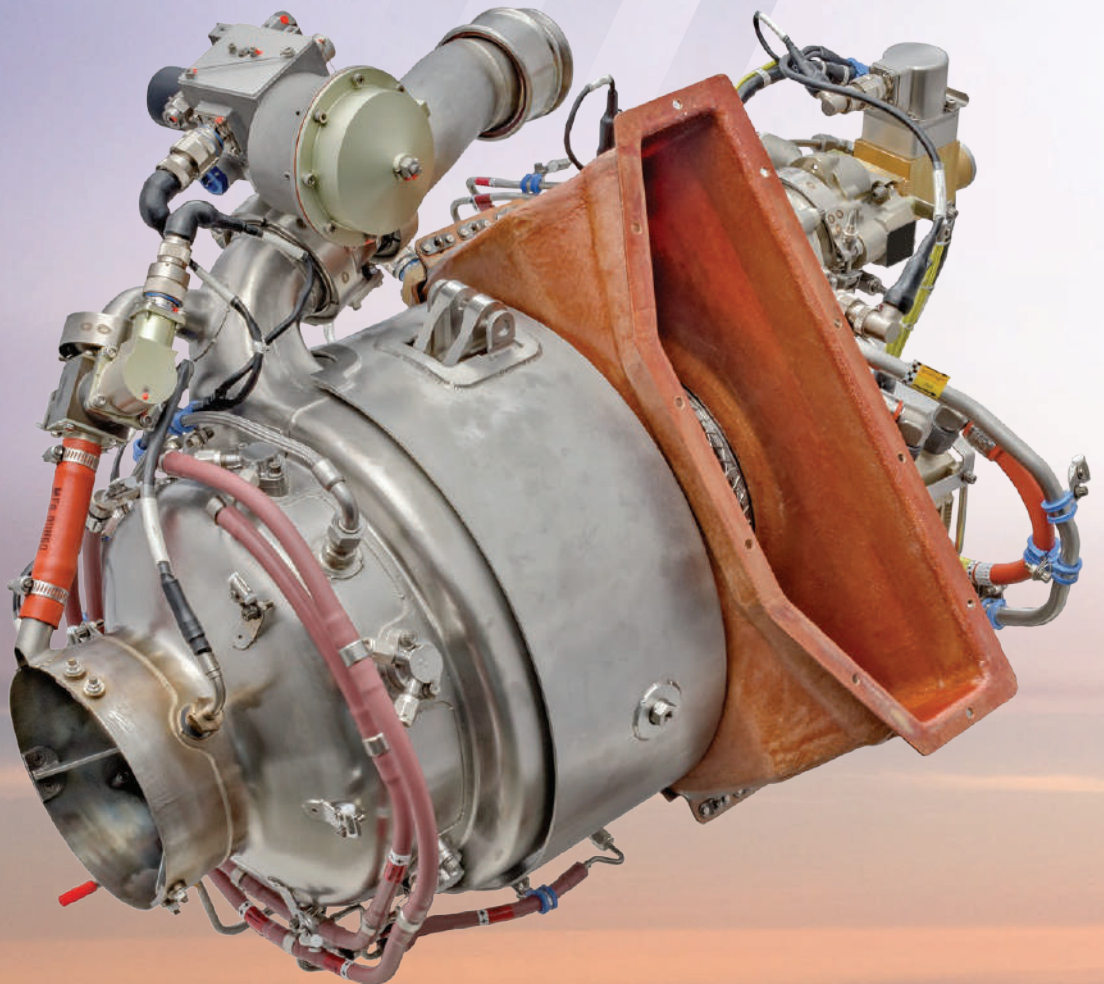


GO BEYOND

**APS500**  
MILITARY ENGINES

# APS500 SERIES

**AUXILIARY &  
SUPPLEMENTAL  
POWER UNITS**





GO BEYOND

MILITARY ENGINES

# APS500 SERIES

## Auxiliary & Supplemental Power Units

Pratt & Whitney is the leading supplier of Auxiliary Power Units and Supplemental Power Units used on dozens of Military aircraft platforms.

Our APS500 series APUs and SPUs are based on established and proven turbine technology and provide class-leading performance in reliability and durability. Ready when you need them, APS500 series APUs provide mission critical functions on the Black Hawk, F-16, CH-47, KC-135 and AW101 platforms.

APS500 series can act as a traditional APU on the ground, have the ability to operate up to 39,000 feet, and can also act as a SPU providing additional propulsion power and also providing critical starting and aircraft control power should the aircraft main engine shut down. Pratt and Whitney APUs and SPUs are there to ensure that military pilots, crew and passengers are able to successfully complete their mission.



**PRODUCT FACTS** - *There are many different standard APS500 series models, custom configurations are available.*

### STANDARD AND AVAILABLE FEATURES AND BENEFITS

- FAA TSO C77a Category 1 Certification
- Automatic start and operation relieves pilot workload
- Health Monitoring & Diagnostics – Turbine Speed, Temperature, Oil

Pressure to inform and shut the unit down before damage is done

- Easy access LRUs to minimize off-wing maintenance and AOG scenarios
- APU Rotor containment for enhanced crew safety
- Integration with starter, gearbox and generator can be options for flexibility
- Bleed Valve/Venturi Flow Control
- Integral oil system for redundancy
- Available as powerhead only to connect directly to an AMAD
- Inlet particle filters designed to provide optimal protection and maximum flow
- Full authority digital control system optimizes performance throughout the flight envelope

### ENGINE CHARACTERISTICS

- Bleed air and/or Shaft output available
- Bleed air available from 0-80 lb/min @ 56 PSIA
- SHP available from 0-210 SHP
- Generator ratings up to 35KVA
- Starts up to 30,000 feet
- Operates up to 39,000 feet
- Starting ambient temperatures -40°F to 140°F
- Operating ambient temperatures -40°F to 140°F
- Weight ranges between 60-140 lbs depending on options
- Size ranges from:
  - Length 17.2" - 37.7"
  - Width 12.4" – 22.6"
  - Height 13.9" – 22.2"

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