

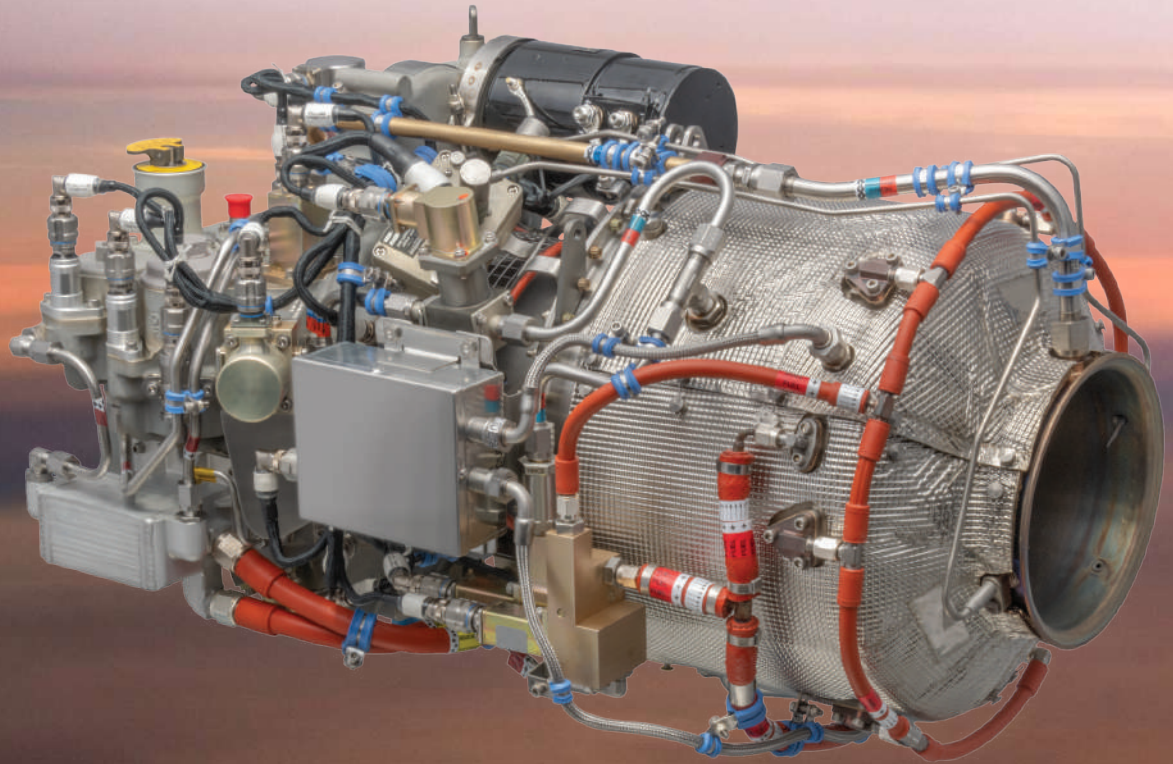


GO BEYOND

APS1000
MILITARY ENGINES

APS1000 SERIES

**AUXILIARY &
SUPPLEMENTAL
POWER UNITS**



PRATTWHITNEY.COM

©2020 Raytheon Technologies. This document has been publicly released and is not subject to the EAR or ITAR.
S180017.01.22



GO BEYOND

APS1000 SERIES

THERE ARE APS1000 MODELS IN STANDARD OR CUSTOM CONFIGURATIONS AVAILABLE TO MEET YOUR NEEDS.

Pratt & Whitney is the leading supplier of Auxiliary Power Units and Supplemental Power Units used on dozens of Military aircraft platforms. APS1000 series APUs and SPUs are the next step up in performance from our APS500 Series. The APS1000 series is based on established and proven turbine technology and provides class-leading performance in reliability and durability. APS1000 series APUs and SPUs provide mission critical functions on the CH-53K, V-22, JAS 39, C-27J and the new T-7A platforms.



POWERFUL

APS1000 series product can act as a traditional APU on the ground, have the ability to operate up to 37,000 feet, and can also act as a SPU to provide additional propulsion power, 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.



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
- Starter, gearbox and generator can be options for integration 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 SPECIFICATIONS

Bleed air and/or Shaft output available	SHP available from 0-340 SHP
Bleed air available from 0-140 lb/min @ 56 PSIA	Generator ratings up to 210KVA
Starts up to 30,000 feet	Operates up to 37,000 feet
Starting ambient temperatures -40°F to 140°F	Operating ambient temperatures -40°F to 140°F
Weight ranges between 130-200+ lbs depending on options	Size ranges from: <ul style="list-style-type: none">– Length 29" - 41"– Width 13.5" – 30"– Height 16" – 25"

©2022 Raytheon Technologies. This document has been publicly released. This document is not subject to the EAR or ITAR. Photo credits: Getty Images, Secretary of the Air Force Public Affairs. The appearance of U.S. Department of Defense (DoD) visual information does not imply or constitute DoD endorsement. This document contains forward-looking statements concerning future business opportunities. Actual results may differ materially from those projected as a result of certain risks and uncertainties, including but not limited to changes in government procurement priorities and practices, budget plans and availability of funding, and in the number of aircraft to be built, challenges in the design, development, production and support of advanced technologies, as well as other risks and uncertainties, including but not limited to those detailed from time to time in Raytheon Technologies' Securities and Exchange Commission filings.