



FACT SHEET

The OH-58D/AVX Configuration



The OH58D AVX Configuration is an innovative design using proven technologies that significantly improves performance, handling characteristics, speed and endurance of the current OH-58D. The necessary modifications can be done at an economical price point as well. In fact the cost of this upgrade is offset by fuel efficiencies and life extension of the airframe.

The **AVX configuration** combines proven counter-rotating coaxial rotor technology with proven ducted fan technology to produce a much more efficient hover capability with higher speed, range and endurance.

For example, an AVX coaxial rotor helicopter that provides the same lift as a single rotor helicopter requires only 80-85% of the power required by the single rotor helicopter. By adding the ducted fans to the coaxial main rotor the speed, range and endurance capability are also significantly increased.

The **OH58D AVX** project will benefit the nation and United States Army aviation by rapidly producing a relatively low cost performance upgrade for the OH-58D, which is presently unable to adequately perform its mission at the altitudes and temperatures in the current warzones.

Ultimately, the enhanced performance will save lives of Soldiers who rely on the support provided by the armed scout helicopters.

The **OH58D AVX** configuration with a 37 ft dia. coaxial main rotor + dual ducted fans offers:

- **HOGGE at 5500lb, 6000 ft/95°F**
- **120 Knot Cruise Speed at IRP**
- **445 km Range at 6000ft/95°F**
- **3.1 Hours of Endurance at 6000ft/95°F**
- **Acceptable Autorotation Capability at 5500lb and 6000 ft/95°F**
- **Potential Reduction in “Brown Out” Susceptibility**
- **Reduced Detectability (No Tail Rotor Noise)**

The **OH58D AVX Configuration** also offers an enhanced degree of safety in operation and design. Materials used in manufacture of the OH 58D AVX components make the aircraft more battle damage survivable and repairable than current designs. Additionally with the co-axial counter rotating main rotors there is no longer a need for a tail rotor to offset torque. This puts less strain on the fuselage, makes pilot workload lighter and means the loss of tail fans is not a catastrophic event.

AVX Aircraft Company is currently focused on modifying the U.S. Army’s Kiowa Warrior OH-58D into an AVX configuration for a concept demonstrator. Eventually, AVX will seek a production contract with the Army to modify the fleet of OH-58Ds to the AVX configuration, which would provide the Army warfighter with the significantly improved performance capabilities.

About AVX: Founded in 2005, AVX designs and manufactures a high performance, next-generation family of helicopters that incorporates leap-ahead rotorcraft technology utilizing coaxial, counter rotating rotors, and rear, laterally displaced fans. AVX’s aeronautical engineering team has over 400 years of collective experience in the rotorcraft industry, including executive level management experience.