

X-45/X-46/JUCAS/Navy Unmanned Combat Aircraft System (N-UCAS)

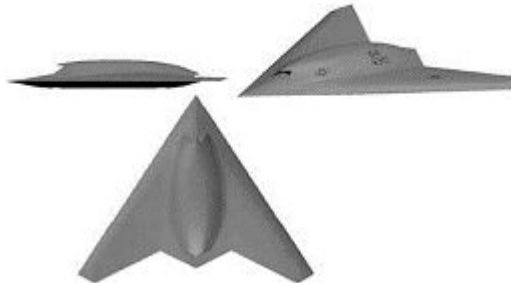
Users: U.S. Air Force and Navy

Manufacturers: Boeing

Inventory: 2 X-45A Delivered/2 X-45C Planned (2006)



Boeing X-45A



Boeing X-47C

Background: The Joint Unmanned Combat Air Vehicle program originated as a USAF Advanced Technology Demonstration (ATD) under DARPA in 1998. A navalized version, the X-46, was contracted for in 2000 but never built. The first X-45A made its first flight on 22 May 2002 and the second in Nov 2002. Restructured as the Joint Unmanned Combat Aircraft System (J-UCAS) under DARPA management in 2003. It dropped its first bomb on 18 Apr 2004, and the two aircraft flew in formation under one controller on 1 Aug 2004. Restructured as an Air Force program in Nov 2005. Restructured under Navy management in Feb 2006 as the N-UCAS Carrier Demonstration program (X-45N). Characteristics for N-UCAS will be determined at contract award (3QFY2007) and will not include any mission systems or sensors.

Characteristics:

	X-45A	X-45C		X-45A	X-45C
Length	26.5 ft	39 ft	Wing Span	33.8 ft	49 ft
Gross Weight	12,190 lb	36,500 lb	Payload	1,500 lb	4,500 lb
Fuel Capacity	2,690 lb	14,000 lb	Fuel Type	JP-8	JP-8
Engine Make	1xF124-GA-100	1xF404-GE-102	Power	6330 lb	
Data Link(s)		Link 16	Frequency	L, C-band	Ku, Ka

Performance:

Endurance	1.5 hr	7 hr	Max/Loiter Speeds	Mach 0.8	460/TBD kt
Ceiling	35,000+ ft	40,000 ft	Radius	375 nm	1,200 nm
Takeoff Means	Runway	Runway/Carrier	Landing Means	Runway	Runway/Carrier
Sensor(s)	none	ESM SAR/MTI	Sensor Model(s)	n/a	ALR-69 TBD
Weapons		GBU-31, SDB			