

Boeing Integrated Defense Systems



Boeing Integrated Defense Systems (Boeing IDS), based in [St. Louis, Missouri](#), is a unit of [The Boeing Company](#), responsible for [defense](#) and [aerospace](#) products. It is a consolidated group consisting of the following acquired companies:

- [Boeing Helicopters](#), formerly Boeing Vertol and [Piasecki Helicopter](#)
- [Hughes Satellite Systems](#)
- [Hughes Helicopters](#)
- The [St. Louis](#)-based [McDonnell](#) division of the former [McDonnell Douglas Company](#)
- The former [North American Aviation](#) division of [Rockwell](#)

The group is being restructured into three subdivisions:

- Precision Engagement and Mobility System, responsible for [fighter aircraft](#), [airlifters](#), [aerial refuelling](#) tankers, [helicopters](#), and airborne warfare systems. This group will be headquartered in [northern Virginia](#), and led by John Lockard.
- Networks and Space Systems, responsible for Boeing's Future Combat Systems program, rocket launch systems, [missile defense](#), [satellites](#), and other networking services. This group will be headquartered in northern Virginia, and led by Roger Krone.
- Support Systems, responsible for [MRO](#), material management, training systems, international business operations, and advanced logistic systems. This group will be headquartered in St. Louis, and led by Pat Finneran.

IDS also controls the [Phantom Works](#) research group, inherited from McDonnell Douglas, which will report directly to IDS chief Jim Albaugh.

Products



B-52 Stratofortress

Bombers

- [Y1B-9](#)
- [B-17 Flying Fortress](#)
- [B-29 Superfortress](#)
- [B-47 Stratojet](#)
- [B-50 Superfortress](#)
- [B-52 Stratofortress](#)

- [B-1B Lancer](#) (Rockwell)
- [B-2 Spirit](#) (in contractor team under [Northrop Grumman](#))

Helicopters

- [AH-64 Apache](#)
- [CH-46 Sea Knight](#)
- [CH-47 Chinook](#)
- [V-22 Osprey](#) (with [Bell Helicopter](#))
- [RAH-66 Comanche](#) (with Sikorsky), cancelled light attack helicopter



X-32 Joint Strike Fighter

Tactical fighters

- [P-26 Peashooter](#)
- [F-4 Phantom II](#) (McDonnell Douglas)
- [F-15 Eagle](#) (McDonnell Douglas)
- [AV-8A Harrier](#) ([British Aerospace](#))
- [AV-8B Harrier II](#) (McDonnell Douglas/[British Aerospace](#))
- [Harrier GR9](#) (BAe/McDonnell Douglas)
- [F/A-18 Hornet](#) (McDonnell Douglas)
- See also: [Blue Angels](#) aerobatic team
- [F/A-18E/F Super Hornet](#)
- [F-22 Raptor](#) (subcontractor with [Lockheed Martin](#))
- [X-32](#), Boeing's losing entry for the [Joint Strike Fighter](#) competition



KC-135 Stratotanker refuels F-22 Raptor

Tankers and transports

- [KC-135 Stratotanker](#)

- [KC-10 Extender](#) (McDonnell Douglas)
- [KC-767](#), replacement for KC-135
- [C-22](#)
- [C-32A Executive Transport](#)
- [C-40 Clipper](#)
- [YC-14](#)
- [YC-15](#) (McDonnell Douglas)
- [C-17 Globemaster III](#) (McDonnell Douglas)
- [VC-25A \("Air Force One"\)](#)



E-3 Sentry

Surveillance and other military

- [Airborne Laser](#)
- [EC-135](#)
- [OC-135 Open Skies](#)
- [RC-135 Rivet Joint](#)
- [E-3 Sentry](#) (an [AWACS](#) surveillance aircraft)
- [E-4B](#) (Advanced Airborne Command Post)
- [E-6 TACAMO](#)
- [E-8 Joint STARS](#), ground battle management
- [E-10 MC2A](#) (successor to the E-3, E-8, EC-135)
- [T-43](#)
- [T-45 Goshawk](#)
- [Project Wedgetail](#) ([AEW&C](#))
- [Multimission Maritime Aircraft](#) ([ASW](#))
- [X-36](#) (Tailless Agility Research Aircraft)



The X-45A UAV. a prototype for the significantly larger X-45C.

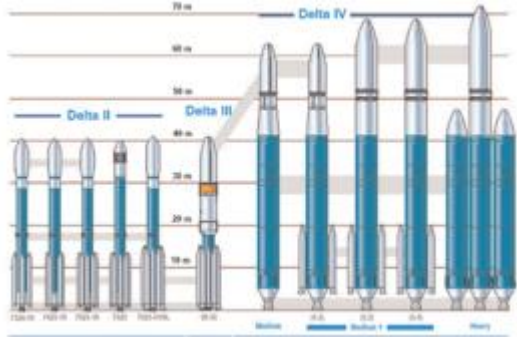
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[Unmanned aerial vehicles](#)

- [X-45](#)
- [A160](#)

Missiles

- [BOMARC](#)
- [AGM-48 Skybolt](#) (Douglas)
- [AGM-84 Harpoon](#) (McDonnell Douglas)
- [AGM-86 ALCM Cruise Missile](#)
- [AGM-114 Hellfire](#) (McDonnell Douglas)
- [BGM-109 Tomahawk](#) (McDonnell Douglas)
- [Brimstone](#)



Delta rocket family

[Space launch](#) and exploration

Boeing Launch Services Inc. (BLS) is Boeing's commercial launch service provider.

- [X-20 Dyna-Soar](#)
- [X-40](#)
- [S-IC first stage](#) (Boeing), [S-II second stage](#) ([North American Aviation](#)) and [S-IVB third stage](#) ([Douglas Aircraft Company](#))
- [Apollo Command/Service Module](#) (North American Aviation)
- [Crew Return Vehicle](#)
- [Inertial Upper Stage](#)
- [International Space Station](#)
- [Solar Orbit Transfer Vehicle](#)
- [Space Shuttle](#) (Rockwell)
- [Delta rocket](#) (aka Thor-Delta)
- [Delta II](#)
- [Delta III](#)
- [Delta IV EELV](#)
- [Sea Launch](#) (with [Energia](#), [Aker Kværner](#), and [Yuzhnoe](#))
- [X-37](#)

Satellites

- [Advanced Research and Global Observation Satellite](#)
- [GPS Satellites](#) (Rockwell)
- [Integrated Solar Upper Stage](#)
- [Kinetic Energy Anti-Satellite Weapon System](#)
- [XSS Micro-satellite](#)
- [376](#) (formerly [Hughes Satellite Systems](#) - HSS)
- [601](#) (formerly HSS)
- [702](#) (formerly HSS)



Pegasus class hydrofoils

Other

- [Avenger](#)
- [Bird of Prey](#)
- [Sandia/Rockwell MAGLEV](#)
- [Pegasus class hydrofoils](#)

Other divisions

- [Phantom Works](#)
- [Boeing Satellite Systems](#), formerly a unit of [Hughes Electronics](#)
- [United Launch Alliance](#) (with [Lockheed Martin](#), subject to US Government approval as of 01/2006)
- [United Space Alliance](#) (with Lockheed Martin)
- [Sea Launch](#) (40%)

Facilities

- [Decatur, Alabama](#)
- [Mesa, Arizona](#)
- [El Segundo, California](#)
- [Palmdale, California](#)
- [Long Beach, California](#)
- [Macon, Georgia](#)
- [St. Louis, Missouri](#)
- [Wichita, Kansas](#)
- [Ridley Park, Pennsylvania](#)
- [Houston, Texas](#)