

LOCKHEED MARTIN ALENIA**TACTICAL TRANSPORT SYSTEMS**

Aircraft	C-27J Spartan II
Mission	tactical transport
Powerplant	2 x R-R AE2100D2
Max power(kw)	3,460
Wing span (m)	28.7
Wing area (m²)	82
Overall length (m)	22.7
OEW (kg)	17,500
MTOW (kg)	30,500
MLW (kg)	27,500
Max payload (kg)	9,000
Max weapon load (kg)	-
Range, max fuel (km)	5,560
Endurance (h)	9.2h
Hardpoints	4
Cruise (kt)	-
Mmo	M0.64
Max landing dist, sea level ISA (m)	733
Max take-off dist, sea level ISA (m)	1,024
Max ceiling (ft)	30,000
Crew	2
Passengers	46
Internal fuel (kg)	9,400
Fuel, opt ext (litre)	1,000kg
Air refuel?	yes

TV/IR sensor and Link 16 datalink will be likely sensors.

U-2

USAF U-2R reconnaissance aircraft are being re-engined with the GE F118 turbofan, which replaces the P&W J75 and extends service life to 2020. The re-engined U-2S has increased range, altitude and payload, and improved reliability and maintainability.

Raytheon started flight tests in May 1999 under the ASARS-2 radar improvement programme (RIP). This uses off-the-shelf software to give better real-time precision targeting, broad area synoptic coverage, imagery for intelligence applications and ground moving target indication. A multi-processor computer will be



The F-22 has passed a series of milestones, but is not cleared for production

fitted to provide onboard, instead of ground based, processing. ASARS-2RIP production versions entered service in 2000.

Lockheed Martin started flight testing the U-2 reconnaissance avionics maintainability programme (RAMP) in early 2001. The avionics replace the 1960s-era cockpit with three 150mm x 200mm multifunction displays, an upfront control and display unit and an independent secondary flight display system. The fleet of 31 U-2S and four two-seat U-2STs will be retrofitted by 2007. Six aircraft a year will be modified, a rate determined by the U-2 depot maintenance cycle.

LOCKHEED MARTIN AIRCRAFT ARGENTINA

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A-4AR FIGHTING HAWK

LOCKHEED MARTIN took over operation of Argentina's FMA plant from the air force as part of a deal to upgrade 36 ex-USMC McDonnell Douglas A-4Ms for the Argentine air force.

The upgraded A-4AR incorporates a Northrop Grumman APG-66 multimode radar, dubbed the ARG-1; improved cockpit with head-up and multifunction displays; RWR and

chaff/flare dispenser; and overhauled/upgraded P&W J58 engines. Aircraft were delivered to the air force late 1997 to January 2000.

Lockheed Martin Aircraft Argentina plans to pursue opportunities to overhaul and upgrade McDonnell Douglas A-4 Skyhawks acquired by Bolivia and Brazil.

IA-63 PAMPA

FMA previously produced the IA-63 Pampa jet trainer, but funding difficulties prematurely closed the line. In September 1999, a twentieth Pampa was delivered, built from spares.

The Argentinian government ordered another 12 trainers in July 2000 while earlier aircraft are to be upgraded using Elbit systems. The later will supply and integrate the avionics - including new multifunction cockpit displays, mission computer and communications system.

LOCKHEED MARTIN ALENIA TACTICAL TRANSPORT SYSTEMS

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C-27J SPARTAN II

THE C-27J IS being developed as a joint venture between Alenia and Lockheed Martin, using technology and systems from the C-130J

LOCKHEED MARTIN/NORTHROP GRUMMAN/BAE SYSTEMS

Aircraft	X-35 JSF CDA
Mission	Fighter/attack
Powerplant	1 x P&W JSF119-SE611
Max thrust wet (lb)	35,000
Wing span (m)	12.19
Wing area (m²)	54.81
Overall length (m)	15.52
OEW (kg)	11,340
MTOW (kg)	22,680
MLW (kg)	-
Max payload (kg)	7,000
Max weapon load (kg)	-
Range, max fuel (km)	-
Endurance (h)	-
Hardpoints	-
Cruise (kt)	-
Mmo	M1.6
Max landing dist, sea level ISA (m)	1,575
Max take-off dist, sea level ISA (m)	-
Max ceiling (ft)	-
Crew	1
Passengers	-
Internal fuel (kg)	-
Fuel, opt ext (litre)	-
Air refuel?	Yes
Comments	Dimensions vary between variants. Power is approximate.