

KC-X Tanker Modernization Program

AN-112KC



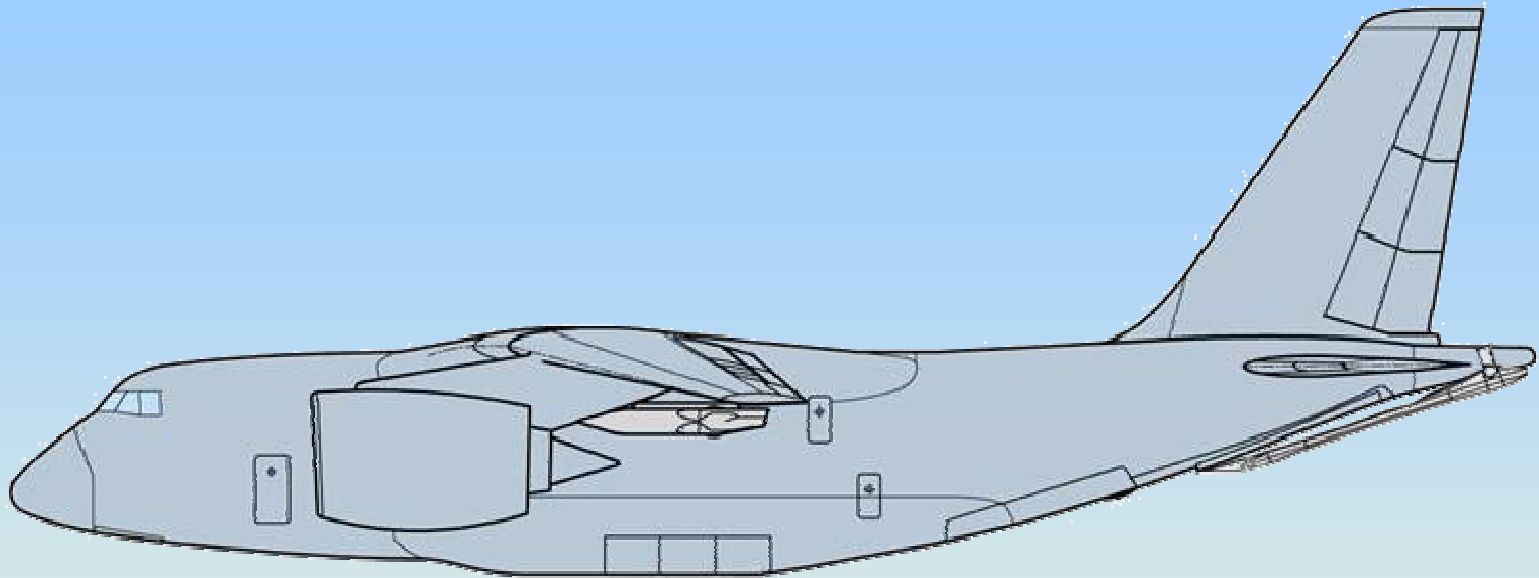
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AN-122KC

Aerial Refueling Tanker

Overview





AN-112KC Aerial Refueling Tanker



U.S.A. AEROSPACE

AN-112KC

Aerial refueling and strategic transport

Cargo capacity up to 33 tons

Transportation of up to 300 troops

Parking area only 38,000 ft²

Service life of 60 years, up to 2,000
annual flight hours



Refueling Capabilities

Fuel offload capability:

- 55 t at 500 nm
- 15 t at 2,500 nm

Advanced refueling system:

3 hose and drogue (wings and fuselage)

Telescopic refueling boom

Interactive fly-by-wire control system

Fuel offload rates:

- 1,500 gal/min (5,700 l/min) from boom
- 600 gal/min (2,300 l/min) each drogue



Advanced Technology

Next-generation aircraft

Glass cockpit, advanced avionics

Modern mid-sized military transport

Unique transporting capabilities

Composite materials throughout



Unique Capabilities

Broadest flight envelope, lowest V_{S1}

Unimproved runway capability

Drive in/off loading ramps, on-board loading equipment

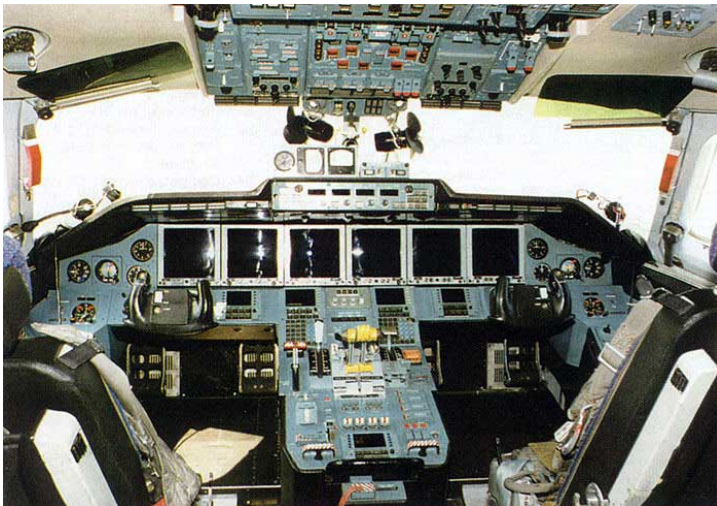
Off-clearance load carrying, airdrop capability

Meets all mandatory requirements

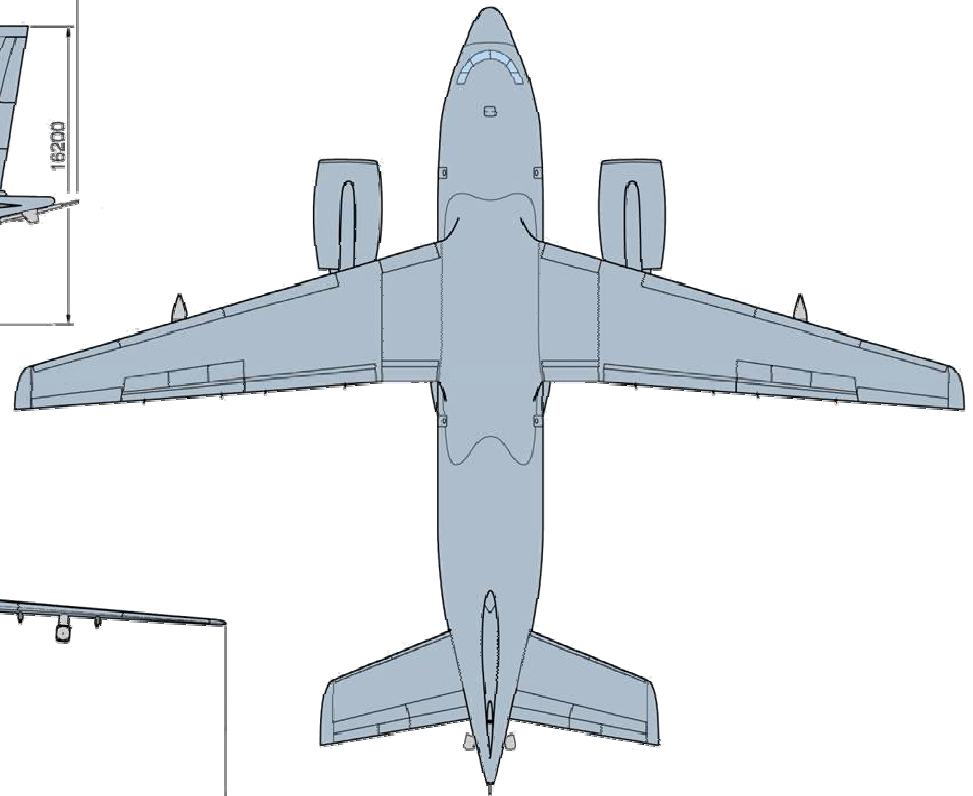
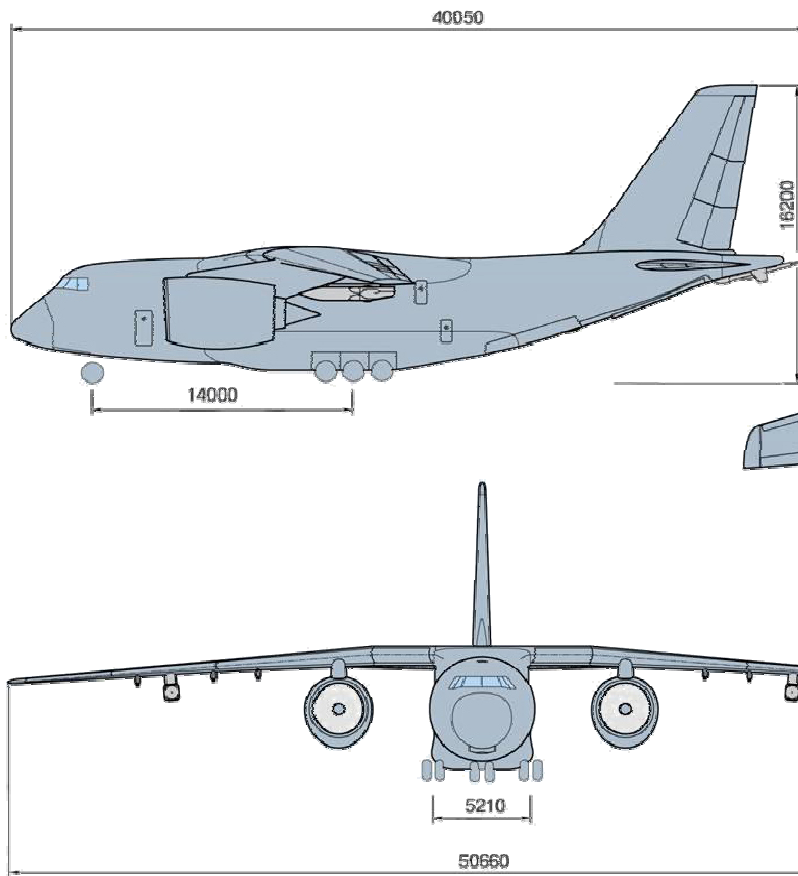
Most durable, dependable, and serviceable



Established Capabilities



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AN-112KC



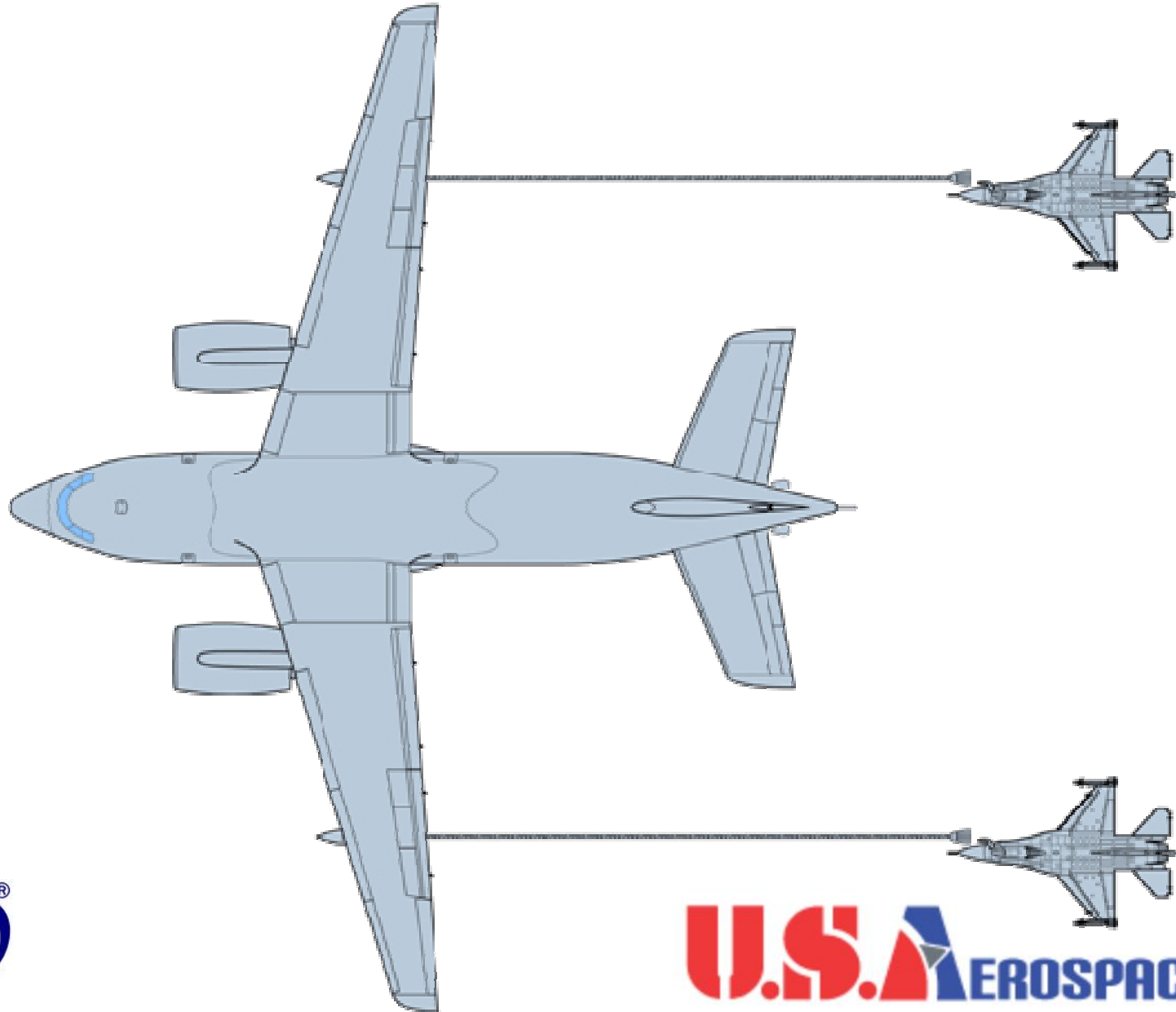
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AN-112KC Specifications

MTOW	165 t	
OEW	82 t	
Engines: Modern high bypass turbofans	GE GEnx-1B74/75, Engine Alliance GP7277, Pratt & Whitney PW4074/74D, or Rolls-Royce Trent 1000-D	
Fuel weight	183,000 lb (83 t)	
Radius range (reserve fuel for 2 hours +1 hour loiter)	500 nm (926 km)	2,500 nm (4,632 km)
Flight level at refueling	250 Fl (7,620 m)	
Fuel offload, lb (t)	139,000 lb (63.1 t)	26,000 lb (11.8 t)
Runway (CFL) (ISA, sea level): - at maximum takeoff thrust - at 90% max takeoff thrust	7,000 ft (2,100 m) 10,000 ft (3,000 m)	
Time climb to 31,000 feet (9,450 m)	21 min	

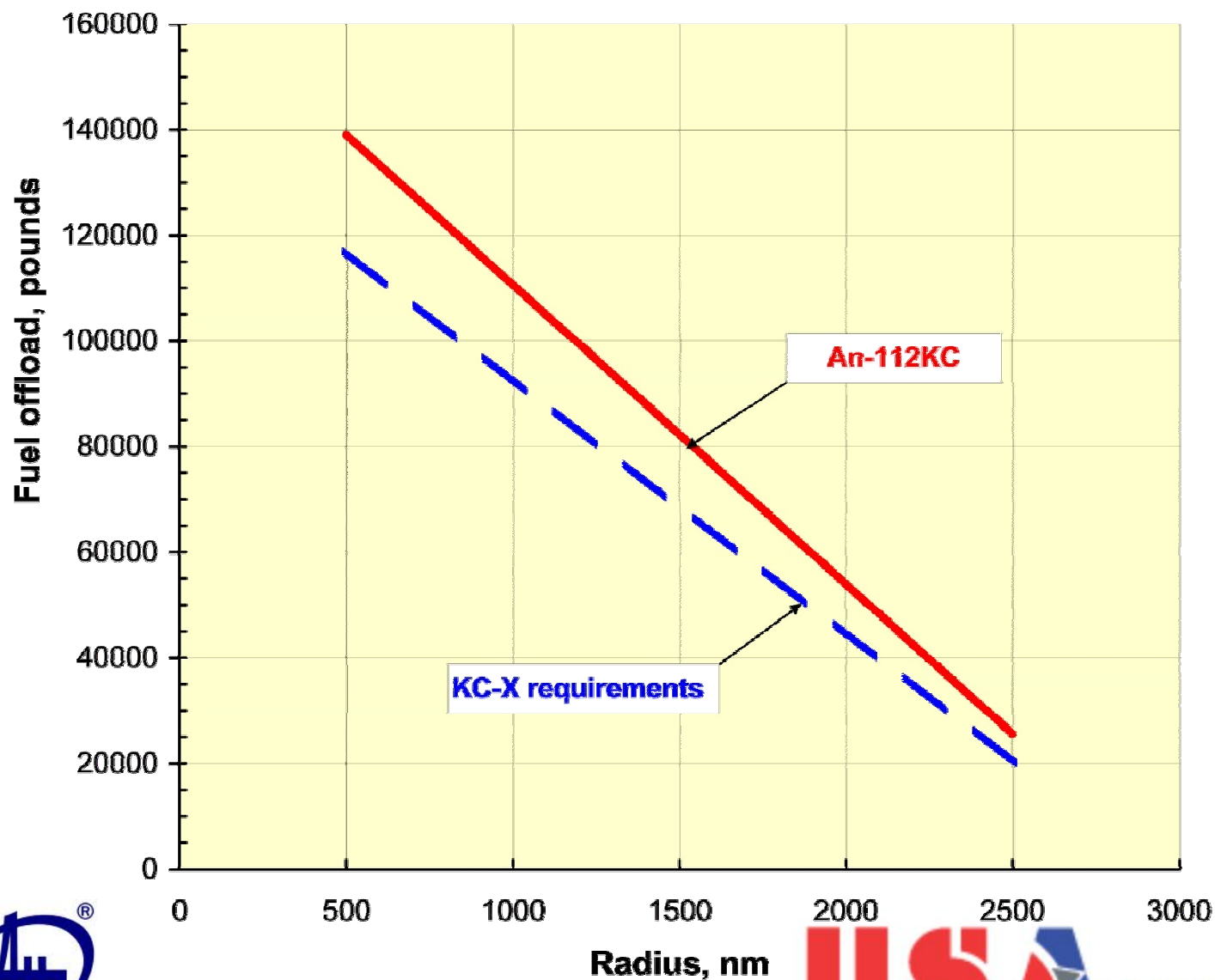


AAR with Hose and Drogue

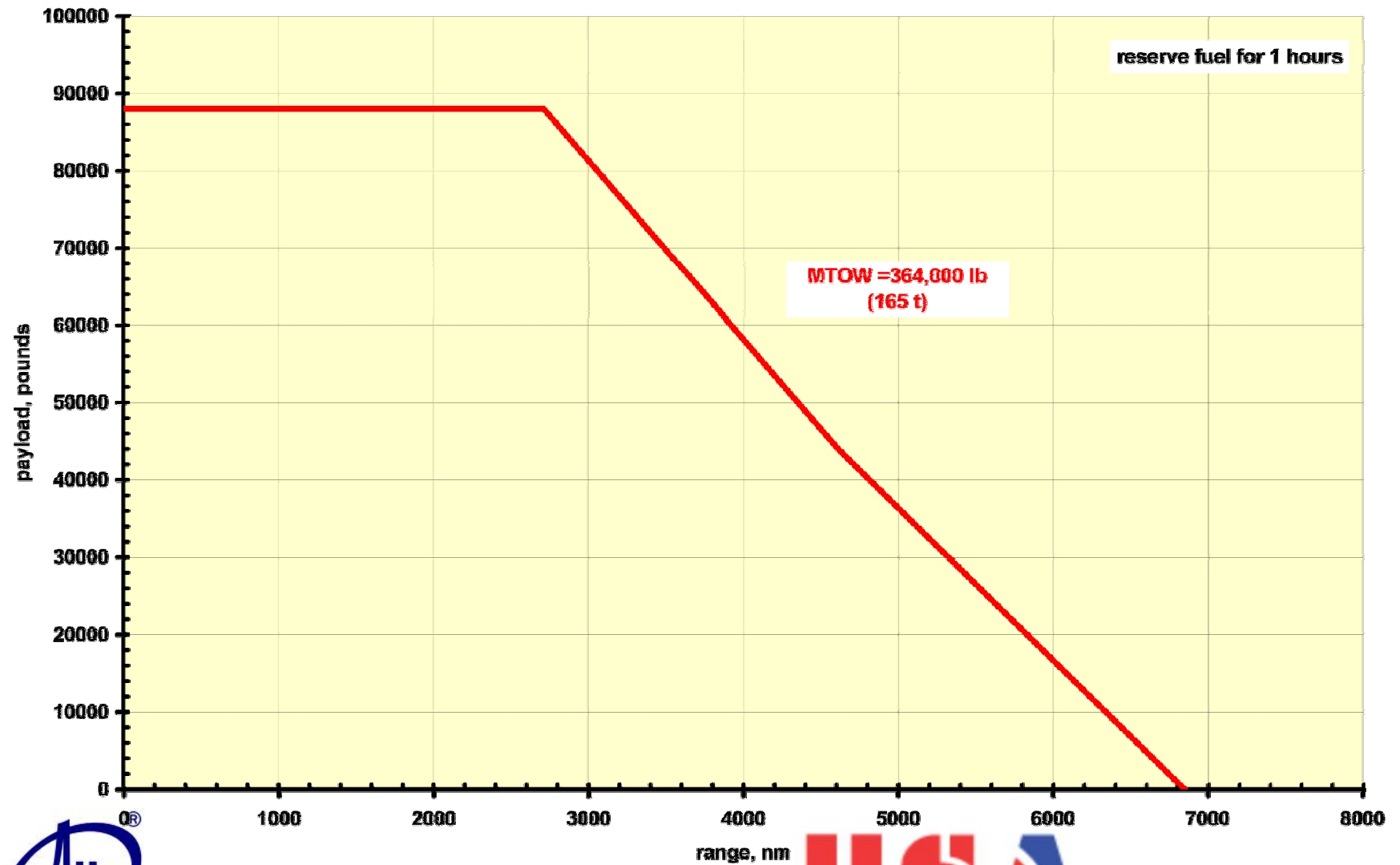


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Fuel Offload at Radius

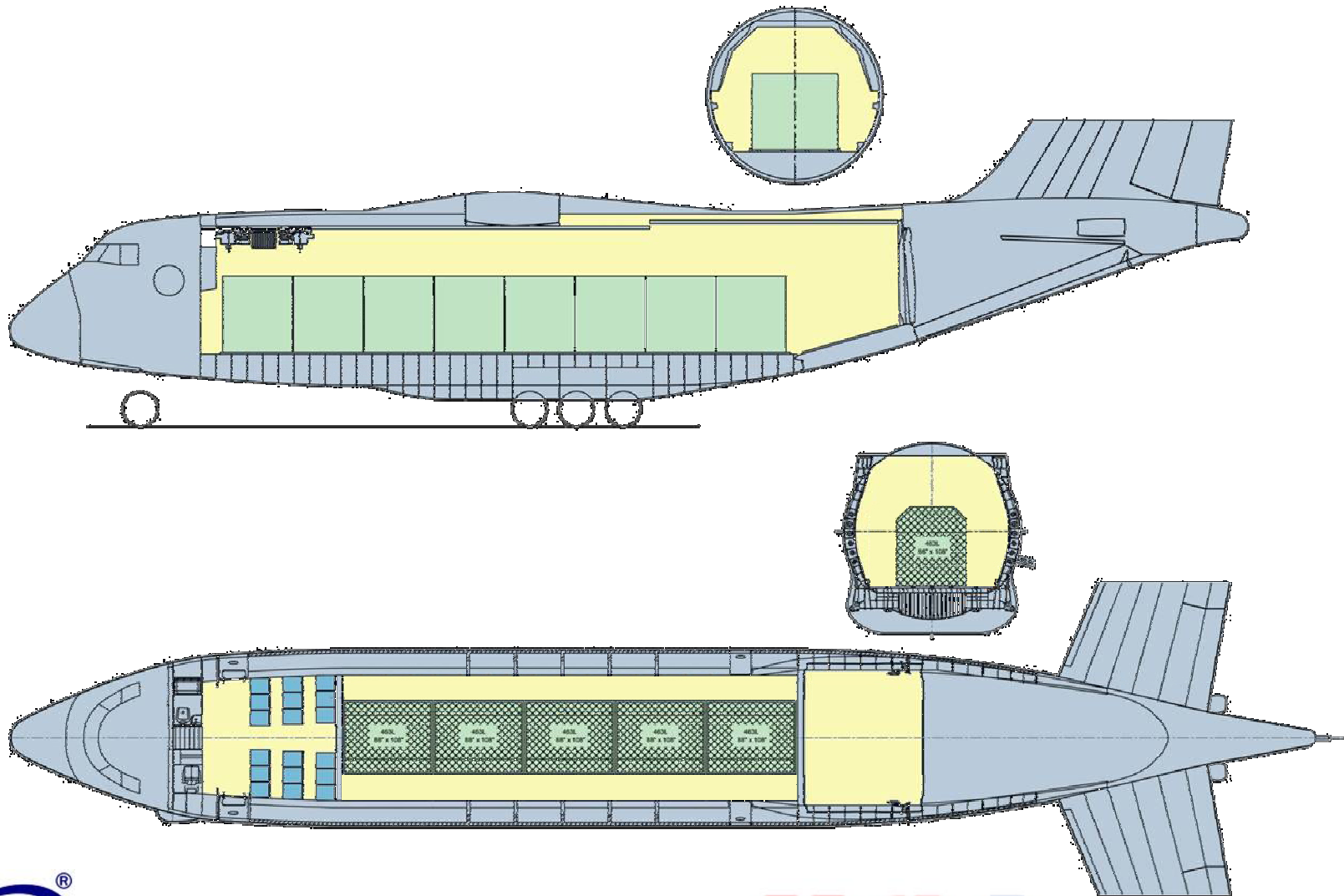


Payload-Range Diagram



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Cargo Capability

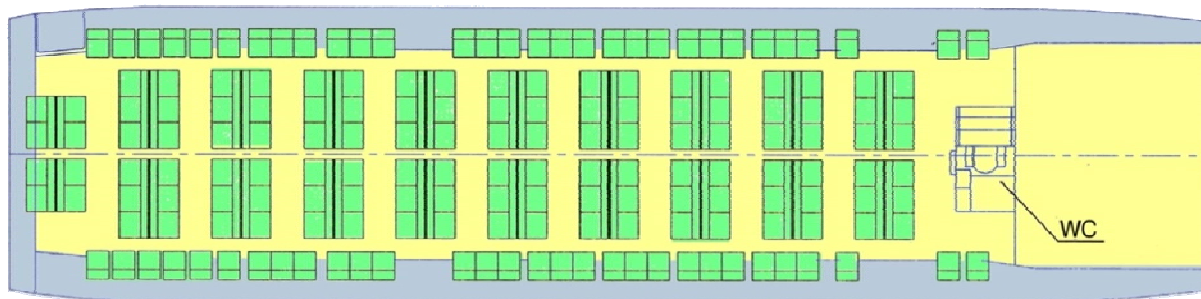


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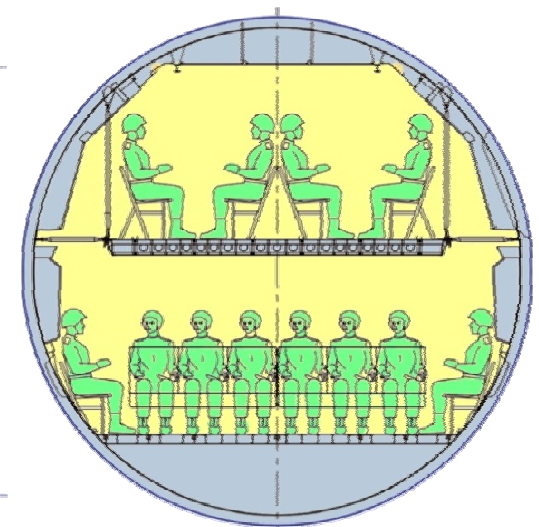
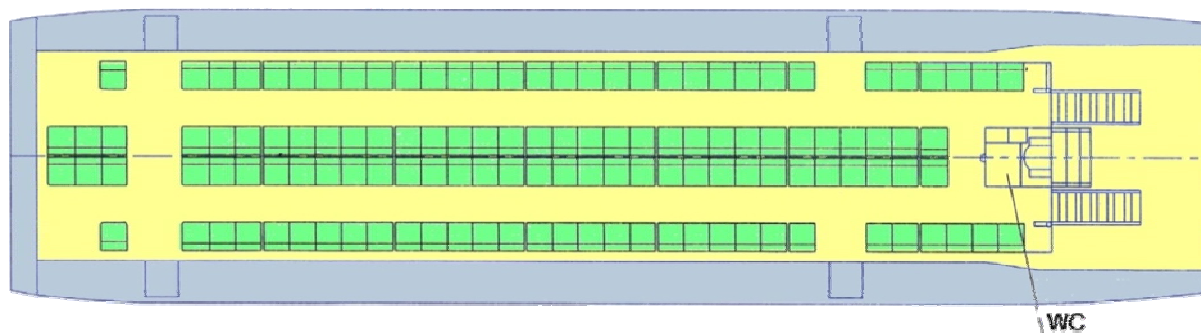
Airlift Capability

Transportation of 300 troops (payload 33 t) – 3,250 nm (5,900 km)

Lower deck - 174 troops



Upper deck - 126 troops





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