Comeau Aerospace Inc.

Ultimate Flying Machine - Design Engineering Projects

CAI-750-A1-75 Super Marine King
Strategic & Tactical Amphibious Airlifter

● double "cranked " two stage delta high wing aircraft* (see *DCD-notes) - “A” or “Λ” design;
● cantilever unified wing assembly and unified blended fuselage, stealth
● integrated sliding dovetail design for massive load transfer and custom build
● inner higher sweepback and outer lower sweepback for less drag and low speed;
● long root chord and short wing span strategic and operational advantage over a swept wing;
● supreme structural strength and higher wing loading, less flex, fatigue, major life extension;
● increased internal capacity for fuel and storage, more range and auxiliary options;
● high lift aerodynamic design amplifies load characteristics;
● enhanced load balancing, speed range, stability and maneuverability;
● excellent low speed, stall and landing speed and short distance;
● high speed flight and and high angles of attack throughout speed range;
● shorter takeoff with higher load, reduced pitch up in landing or takeoff;
● tail less delta wing loading limitations eliminated, and optimised operational range;
● twin movable V tails – increase mobility, stability, lower profile and smaller turning radius

CAI-750-A1-75 Super Marine King
● Empty weight: 145,000 lbs ● Payload 75,000 lbs. ● Fuel load: 75,000 lbs
● Max takeoff weight: 295,000 lbs; ● Max Range: 3,000 nm ; 1,500 nm loaded
● Cargo: 18' wide ● 12'6" high ● 50' long ● with ramp 75' long ;
● Length: 150’ ● Wingspan: front – 92' & rear – 132’
● Wing area: 4,160x sq/ft. ● Wing Load: 70.1 lbs/sq.ft.
● cranked delta: front – 40' W x 32' L(1,280x) & rear - 60' W x 48' L (2,880x);
● Max. Speed: 450 kts+ Climb Rate: est 5,000'/min Service Ceiling: 50,000’
● Takeoff run at MTOW: 3,000' Landing distance: 1,500 ft ;
● Engines: 4-20,000 lbs thrust (80,000 lbs) [turbofan & reverse thrust]

● 140 passenger and luggage; general commercial transport
● freight or strategic tactical transport, custom mission deployment;
● water bomber and water supply ● aerial, marine and land fuel logistics
● built in hover/landing craft, all weather ship to shore logistics
● strategic reconnaissance, search and rescue
● Battlegroup 301 Civil Defence Network & Defence Mobilization Plan

Jetstream Vision
● Est. Price: $220 million
● Production Vision: initial 4+ aircraft; 40+ aircraft within 10 years
● Job Creation Vision: 7,000 long term jobs, high value added
● Investment & Acquisition Vision: capital structure and aircraft options;
● Pilot Vision: In the big league...extremely versatile, capable,dedicated deployment logistics.

CAI-750-A1-75 Super Marine King

Something beautiful for the grand vision

The Ultimate Flying Machine Adventure!

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