

Comeau Aerospace Inc.  
Ultimate Flying Machine - Design Engineering Projects

**AC 275-S "Providence" Strategic Airlifter**

- double cranked delta high wing aircraft - chevron "A" design;
- 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 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;

***Mission capabilities:***

- strategic and tactical operations, air re-fueling and support logistics;
- commercial transport, humanitarian operations
- personnel and freight, 225+ passengers
- oleo strut suspension for rough terrain, front and rear loading;
- a pressurized cargo bay & double fuselage for in flight rear cargo door operational logistics;

***Utility features:***

- Options: custom and removable seating, freight and fuel tank container modules
- integrated overhead ramp, crane, floor rollers; front and aft cargo doors;
- can be equipped with low altitude parachute extraction system;

***AC 275-S Aircraft Specifications and Performance:***

- Empty weight: 330,000 lbs; Payload 200,000 lbs.; Fuel load: 240,000 lbs
- Max takeoff weight: 770,000 lbs;
- Cargo 18' wide x 12'6" high x 100' ;
- length: 210', wingspan: Front - 98' & rear - 138',
- Wing area: 7,800 sq. ft.; Wing Load: 62.8 lb/sq.ft.
- cranked delta: front - 40' W x 60' L ; rear - 60' W x 90' L
- Maximum range: est 2,400 nm, 4,400 km
- Max. Speed: 450 kts/830 km/h Max Climb Rate: 2,000'/min Service Ceiling: 45,000'+
- Takeoff run at MTOW: 7,000' Landing distance: 3,000 ft ,
- Engines: 4 - Rolls Royce RB211-524H-T 60,600 lbs thrust

***Jetstream Vision***

- *Price:* \$330 million      ● *Production Vision:* 5 to start, 20 in 10 years
- *Career & Enterprise Vision:* 3,000 jobs +
- *Investment & Acquisition Vision:* cargo of capital structure and aircraft specific options;
- *Pilot Vision:* "Nice plane...fast, efficient, economical, deploy forces, refuel aircraft, logistics, land and take-off just about anywhere!

***CAI-275-S "Providence" Strategic Airlifter***

Power, speed, altitude, range, capacity, agility, stealth...

***The ultimate flying machine adventure.***