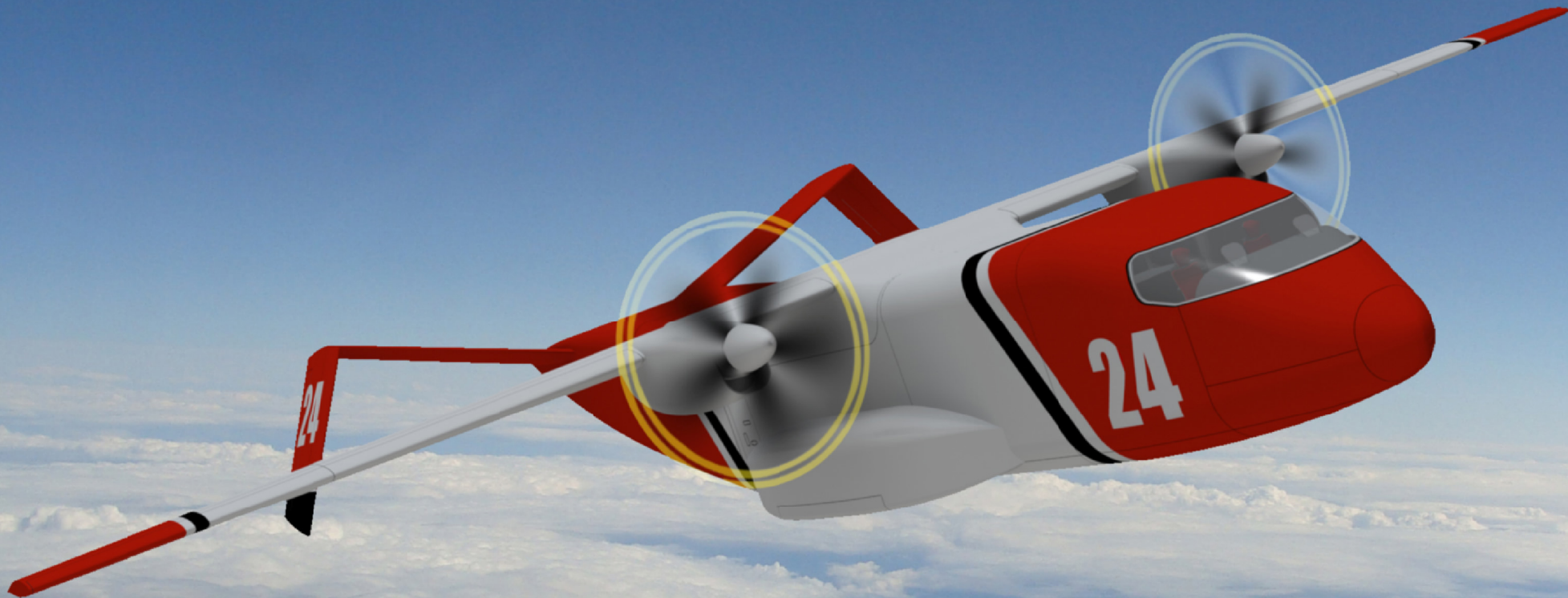


STAVATTI[®] SM-100AT



NEXT GEN AIRTANKER

SM-100AT AIRTANKER

Performance & Specifications

FLYAWAY COST: \$36 Million Basic Equipped

AVAILABILITY: TBD

TYPE

Twin Engine Next Generation Air Tanker and Water Bomber for Aerial Fire Fighting

ACCOMMODATION

Flight crew of 2 with up to 36,000 lbs (4,000 gallons) of Fire Retardant dispensed via a Custom Coulson RADS-XXL

POWERPLANT

Two (2) Pratt & Whitney Canada Enhanced Performance PW150 Turboprops, each rated at 6,000 SHP @ 1,020 RPM at sea level. The powerplants each drive a 13 ft 6 in diameter, 8-blade Scimitar propeller in a tractor configuration.

STRUCTURE

Cantilever three spar semi-monocoque aluminum foam metal sandwich wing and empennage with modular four element semi-monocoque aluminum foam metal sandwich fuselage.

RETARDANT AERIAL DELIVERY SYSTEM (RADS)

RADS Type	Custom Coulson RADS-XXL	RADS Flow Rate	1,600 gpm
RADS Capacity (USG)	4,000	RADS Net Weight	2,760 lbs
RADS Capacity (lbs)	36,000	RADS & Retardant Weight	38,760 lbs

EXTERNAL DIMENSIONS

Wingspan	100 ft 0 in
Length	85 ft 0 in
Height	20 ft 9 in
Wing Area	900 sq ft

WEIGHTS & CAPACITIES

Empty Weight	44,000 lbs
Max Payload Fuel	9,000 lbs
Retardant Payload	36,000 lbs
Useful Load	46,000 lbs
Typical Landing Weight (TLW)	45,540 lbs
Max Take-Off Weight (MTOW)	90,000 lbs

PERFORMANCE

Max Level Speed @ SL	375 KTAS
Max Level Speed @ FL150	403 KTAS
Max Level Speed @ FL250	400 KTAS
Cruise Speed @ SL	362 KTAS
Cruise Speed @ FL150	386 KTAS
Cruise Speed @ FL250	365 KTAS
Takeoff Speed @ MTOW-BLC, SL	102 KTAS
Approach Speed @ TLW-BLC, SL	49 KTAS
Landing Stall Speed @ TLW-BLC, SL	42 KTAS

INTERNAL DIMENSIONS

Cargo Hold Length	35 ft 0 in
Cargo Hold Max Width	11 ft 10 in
Cargo Hold Max Height	10 ft 0 in
Cargo Hold Floor Area	395 sq ft

LOADINGS

Wing Loading @ MTOW (lbs/sq ft)	100.0
Power Loading @ MTOW (lbs/shp)	7.5
Wing Loading @ TLW (lbs/sq ft)	50.6
Power Loading @ TLW (lbs/shp)	3.8
Positive Load Limit @ MTOW	2.5
Positive Load Limit @ TLW	4.9

Max Climb Rate @ SL	2,231 ft/min
Service Ceiling	45,000 ft
Max Payload Range @ FL150	1,063 nm
Max Payload Range @ FL250	1,147 nm
Max Payload Radius @ FL150	534 nm
Max Payload Radius @ FL250	576 nm
Ferry Range With Roll-On Tank	8,598 nm
Takeoff over 50 ft, MTOW-BLC	2,367 ft
Landing over 50 ft, TLW-BLC	1,061 ft

