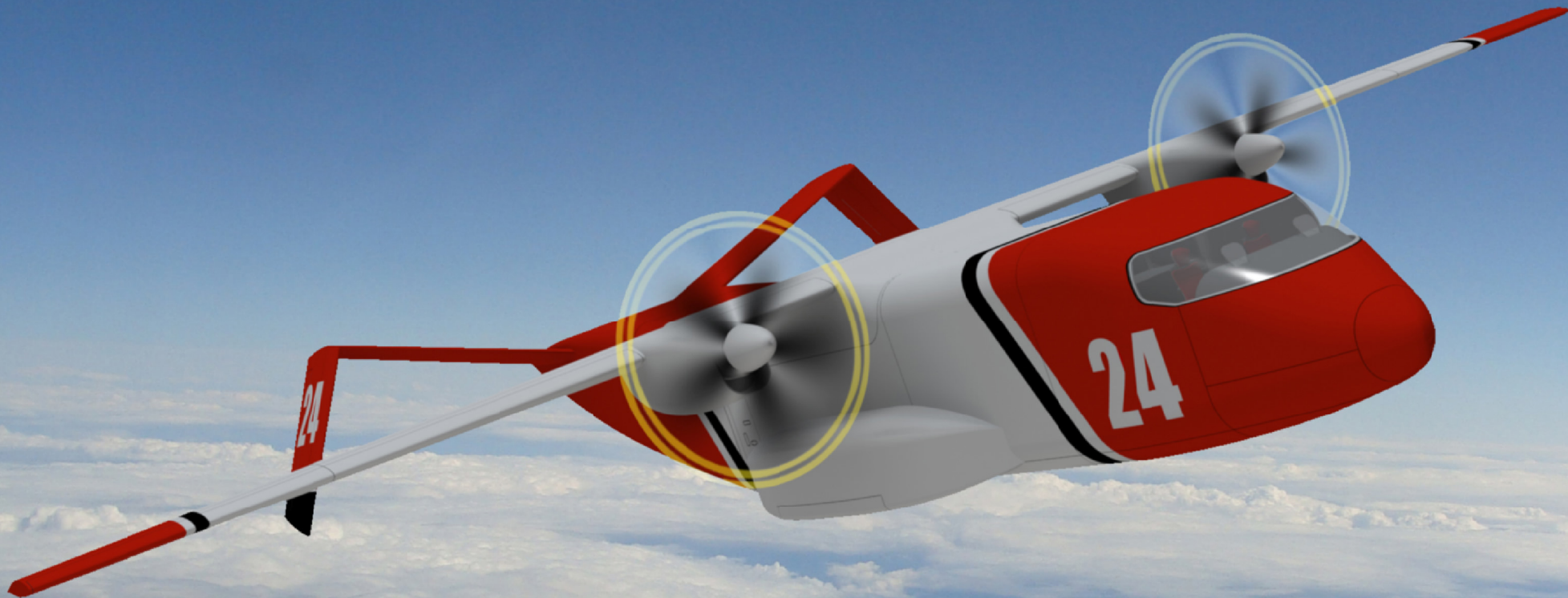


# STAVATTI™ SM-100AT



## 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 35,000 lbs (4,200 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) | 4,200                   | RADS Net Weight         | 2,760 lbs  |
| RADS Capacity (lbs) | 35,000                  | RADS & Retardant Weight | 37,760 lbs |

### EXTERNAL DIMENSIONS

|           |             |
|-----------|-------------|
| Wingspan  | 100 ft 0 in |
| Length    | 86 ft 0 in  |
| Height    | 21 ft 4 in  |
| Wing Area | 900 sq ft   |

### 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   |

### WEIGHTS & CAPACITIES

|                              |            |
|------------------------------|------------|
| Empty Weight                 | 43,550 lbs |
| Max Internal Fuel            | 10,500 lbs |
| Retardant Payload            | 35,000 lbs |
| Useful Load                  | 46,450 lbs |
| Typical Landing Weight (TLW) | 46,075 lbs |
| Max Take-Off Weight (MTOW)   | 90,000 lbs |

### LOADINGS

|                                 |       |
|---------------------------------|-------|
| Wing Loading @ MTOW (lbs/sq ft) | 100.0 |
| Power Loading @ MTOW (lbs/shp)  | 7.5   |
| Wing Loading @ TLW (lbs/sq ft)  | 51.2  |
| Power Loading @ TLW (lbs/shp)   | 3.8   |
| Positive Load Limit @ MTOW      | 2.5   |
| Positive Load Limit @ TLW       | 4.9   |

### PERFORMANCE

|                                   |          |                               |              |
|-----------------------------------|----------|-------------------------------|--------------|
| Max Level Speed @ SL              | 342 KTAS | Max Climb Rate @ SL           | 2,664 ft/min |
| Max Level Speed @ FL150           | 390 KTAS | Service Ceiling               | 35,000 ft    |
| Max Level Speed @ FL250           | 363 KTAS | Max Range @ FL150             | 1,117 nm     |
| Cruise Speed @ SL                 | 310 KTAS | Max Range @ FL250             | 1,215 nm     |
| Cruise Speed @ FL150              | 350 KTAS | Max Radius @ FL150            | 547 nm       |
| Cruise Speed @ FL250              | 310 KTAS | Max Radius @ FL250            | 599 nm       |
| Takeoff Speed @ MTOW-BLC, SL      | 102 KTAS | Ferry Range With Roll-On Tank | 5,300 nm     |
| Approach Speed @ TLW-BLC, SL      | 55 KTAS  | Takeoff over 50 ft, MTOW-BLC  | 1,337 ft     |
| Landing Stall Speed @ TLW-BLC, SL | 43 KTAS  | Landing over 50 ft, TLW-BLC   | 1,129 ft     |

