

# C-27J FIRE FIGHTER

The game changer in firefighting



AIRCRAFT DIVISION

 **LEONARDO**

# C-27J FIRE FIGHTER | The game changer in firefighting

The **C-27J Fire Fighter** with roll-on/roll-off **Fire Attack System (FAS)** by **DART Aerospace** – the world leader in design, manufacturing and certification of the most advanced aerial application systems – represents the very latest in airborne firefighting technology and capability.

The Fire Fighter configuration is a flexible solution, ideal for enhancing the capabilities of the C-27J multi-mission aircraft with significantly lower acquisition and operating cost than a firefighting dedicated platform.

When not used in firefighting duties, the aircraft can be quickly reconfigured for transport, humanitarian support, civil protection and SAR roles.

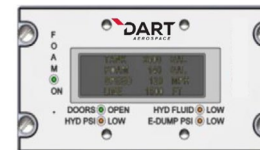
## C-27J key features for firefighting:

- Remarkable maximum cruise speed for rapid response to fire disasters
- Outstanding maneuverability even at low altitude
- Great situational awareness and low workload thanks to modern avionics, with day and night capabilities
- Excellent external visibility thanks to multiple large windows in the cockpit
- Roll-on/roll-off capability via the rear loading ramp
- Very high payload capability even in hot & high conditions
- Ability to land in rough terrain close to fire area for FAS tank refills

## Fire Attack System (FAS) key attributes:

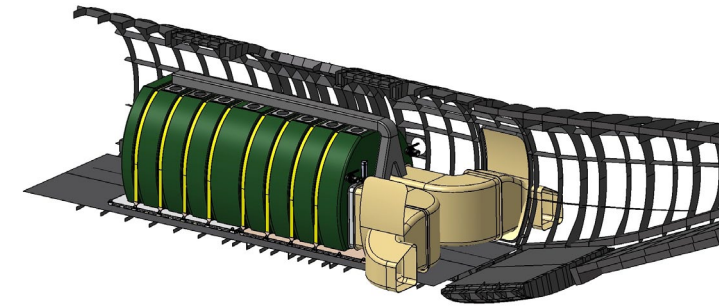
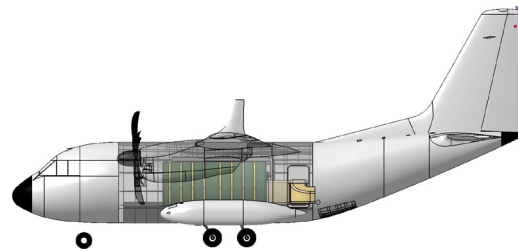
- No major structural modification required to the airframe
- The FAS can be easily installed or removed by a minimal crew in 60-90 min. via the aircraft's rear loading ramp

- Lightweight materials, robust composites
- Foam retardant can be added with controls for variable percentage
- Overflow duct protection, vent holes on top of tank
- Discharge is via gravity only
- Sloped internal tank floor to support nose-down drop attitude
- Retardant exit is via "S" ducts installed in paratrooper 'stub' doors (originals locked up in position)
- Flow can be controlled to contour drop pattern via variable butterfly valves, controlled by rotary actuators in the "S" ducts
- Minimal aerodynamics effects
- Programmable release of retardant



Cockpit FAS Controls and Indicator Panel

- **Emergency dump control**
- **Fluid Level Indicators: Main Tank, Foam Tank**
- **Clear view and easy access for flight crew**



## Fire Attack System (FAS) CHARACTERISTICS

### TANKS CAPACITY

Main Tank Capacity	2,600 US gal	9,850 l
Foam Tank Capacity	150 US gal	568 l

### PERFORMANCE

Fill time	< 60-90 sec.	
Evacuation of tank	< 7 sec.	

## C-27J SPARTAN CHARACTERISTICS

### WEIGHTS

MTOW (normal - 2.5 g)	70,107 lb	31,800 kg
Max Payload (normal - 2.5 g)	25,574 lb	11,600 kg

### POWERPLANT

2 Rolls-Royce AE 2100-D2A engine	4,637 shp each	3,458 kW each
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### PERFORMANCE

Top Cruising Speed	325 KTAS	602 km/h
Max Service Ceiling	30,000 ft	9,144 m
Range with Max Payload (11,600 Kg)	500 nm	926 km
Max Range	3,160 nm	5,852 km