

# C-27J Next Generation FIRE FIGHTER

The game changer in firefighting



AIRCRAFT DIVISION

 **LEONARDO**

# C-27J Next Generation FIRE FIGHTER | The game changer in fire fighting

The **C-27J Next Generation Fire Fighter** with roll-on/roll-off second generation **Modular Airborne Fire Fighting System (MAFFS II)** by **Maffs Corp.** – world leader in design, manufacturing and certification of some of the most powerful aerial application systems – represents the very latest in airborne firefighting capability.

The Fire Fighter configuration is a flexible solution, ideal for enhancing the capabilities of the C-27J Next Generation 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.

Capable of delivering up to 2,100 gallons of water/retardant meeting U.S. Interagency Air-Tanker Board (IAB) Ground Pattern Coverage (GPC) level criterion, the MAFFS II is able to cover a considerable ample area - coverage level GPC 8 - by air compressed liquid jettison through an external nozzle, located on the left side paratrooper door.

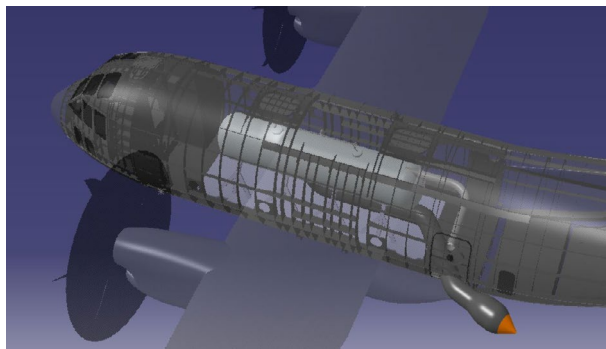
### C-27J Next Generation key features for firefighting:

- 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 MAFFS II tank refills.



### Modular Airborne Fire Fighting System (MAFFS II) key attributes:

- No major structural modification required to the airframe
- The MAFFS II can be easily installed or removed by a 4 people crew in 90 min. via the aircraft's rear loading ramp
- Two pallets configuration (main pressurized retardant tank and high-pressure air tank; foam tank, control boxes and crew station)
- Water/retardant exit is via an outboard nozzle assy installed in left paratrooper 'stub' door (original locked up in position)
- It is possible to split the load into two volume drops of 50% of liquid each
- A dedicated control panel fits easily inside the cockpit
- A drop pendant to release the liquid includes an emergency dump switch



### Modular Airborne Fire Fighting System (MAFFS II) CHARACTERISTICS

#### TANKS CAPACITY

Main Tank Capacity	2,100 US gal	7,950 l
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#### PERFORMANCE

Main tank ground fill time	8 min.	
Ground Coverage Level @ 130 KIAS selectable	1 - 8 GPC	
Max number of volume drops	2	
Discharge at GPC 8	2 sec.	
System operating pressure	100 psi	689 KPa
Operating temperatures	5° to 50°C	40° to 120°F

### C-27J SPARTAN CHARACTERISTICS

#### WEIGHTS

MTOW	71,650 lb	32,500 kg
Max Payload	24,912 lb	11,300 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 (11,300 Kg)	550 nm	1,020 km
Max Range	3,160 nm	5,852 km