Do228 NXT

GENERAL ATOMICS AEROTEC

THE VERSATILE MULTI-ROLE AIRCRAFT

MISSIONS | LAYOUTS | SPECIFICATIONS | SERVICES

CONTENT OVERVIEW

THE VERSATILE MULTI-ROLE AIRCRAFT

The **Do228 NXT** is a versatile twin-turboprop aircraft known for its reliable performance and short takeoff and landing (STOL) capabilities. Designed for passenger and cargo transport, as well as special missions, it excels in challenging environments. With its high efficiency, spacious cabin, versatile equipment, flexible layouts and advanced avionics, the Do228 remains a reliable choice for operators worldwide.

In the legacy of the successful and reliable service of the Do228 for over 40 years, we present the next-generation Do228 NXT featuring a renewed supply chain, a modernized cockpit, increased in-house production of components and various further improvements. With the aircraft's state-of-the-art technology, pilots are able to maintain superior situational awareness throughout the most demanding missions. No other plane in this class combines safety and efficiency to the level offered by the Do228 NXT.

Versatility, reliability and affordability - best performance in its class

STOL certified
362 m landing distance

Cruise speed
240 KTAS

High endurance
Over 8 hours

Flight range
Up to 1,635 NM

PAX capacity
Up to 19 passengers

Payload
Typically 2,155 kg

MISSION ADVANTAGES

OPERATIONAL

- ✓ Largest payload / range ratio
- ✓ Wide range of operating speeds
- ✓ 8+ hour mission endurance
- ✓ STOL & certified for unpaved runway

MULTI-ROLE

- ✓ Optimized rectangular cabin space
- ✓ Versatile cabin layout options
- ✓ Mission equipment & sensor variety
- ✓ 4 under wing hardpoints available

ECONOMIC

- ✓ Lowest operating cost per hour
- ✓ Lowest fuel consumption in class
- ✓ Low maintenance costs & needs
- ✓ Long aircraft service life

TRANSPORT

- ✓ Unmatched payload capacity
- ✓ Up to 14,550 lb MTOW (6,600 kg)
- ✓ Easy conversion of cabin layouts
- ✓ Quick & easy cargo door swap

MISSION AREAS

Border Control
Long mission endurance and high-tech sensor options

Passenger Transport
Up to 19 passengers, can reach many locations thanks to STOL capability

Environmental Monitoring
Various sensor setups, long operating time and different flight speeds

Cargo Transport
Up to 2,155 kg cargo payload capability with easy loading and unloading

Research Platform
Straightforward sensor integration due to rectangular unpressurized cabin

Maritime Surveillance
Low level flying with proven performance in salty environments

MedEvac Flights
Reliable operation for patients and medical supplies

Paratrooper Deployment
Transport and deployment of 21 paratroopers with large cabin and roller door

Extreme Climates
Certified for extreme climates (like arctic climate) and proven in hot and high operation

Unpaved Runways
Able to reach remote areas thanks to STOL capability and gravel protection

WORLDWIDE MISSION MATCH

Flights in arctic climate

The Do228 is used for passenger and cargo transport to remote areas. Its capabilities allow the Do228 to operate in harsh weather conditions and arctic climate.

Technology test platform

Thanks to its versatile sensor options and good conversion possibilities, the Do228 can be optimally used as a test platform and technology carrier for research and development projects.

Enviromental control aircraft

In the North and Baltic Sea the Do228 is used as a mission aircraft for pollution control on a daily basis. It can detect oil spills from ships, due to its long endurance and low level flight capability.

Transport flights

With its flexibility, the Do228 can be used for passenger and cargo flights as well as MedEvac missions. With the Do228 you can reach every destination, even remote areas and small islands.

● Current worldwide Do228 operators

Border patrol aircraft

The aircraft's performance and mission equipment enables the crew to provide reliable, accurate and real-time situational awareness to maintain border security.

Paratrooper platform

The Do228 can be used as a platform for paratrooper training and deployment. It can carry 21 paratroopers and a jumpmaster and is easily convertable to a troop transport layout.

Small island passenger transport

With its STOL capability and low operating costs, the Do228 is the perfect aircraft for passenger and cargo transport to small islands, like the Izu Island chain off the Tokyo coast.

Maritime surveillance aircraft

The aircraft is ideally suited for coast guard and maritime patrol operations with its versatile sensor options, long mission endurance and ability to fly at different heights and speeds.

COMMUTER AIRCRAFT

The Do228 is the perfect choice when it comes to transporting passengers and cargo. No other aircraft can transport as many passengers and cargo over a comparable distance as quickly as the Do228. Our aircraft offers a high level of safety and comfort and is capable of operating in difficult weather conditions and on remote and short runways. That's why operators around the world rely on the Do228 when it comes to demanding missions.

- Passenger Transport
- Cargo Transport
- MedEvac Mission
- Paratrooper Deployment

SPECIAL MISSION AIRCRAFT

The Do228 is the platform of choice for special mission operations taking place between low level and 25,000 ft. Military and government law enforcement organizations operate the Do228 worldwide for maritime patrol (pollution control, search and rescue, border control, fishery patrol), research flights, surveillance and reconnaissance. Therefore, the Do228 can be optimally adapted to its mission areas with versatile sensors and mission equipment.

- Maritime Surveillance
- Border Control
- Enviromental Monitoring
- Research Platform

PASSENGER TRANSPORT

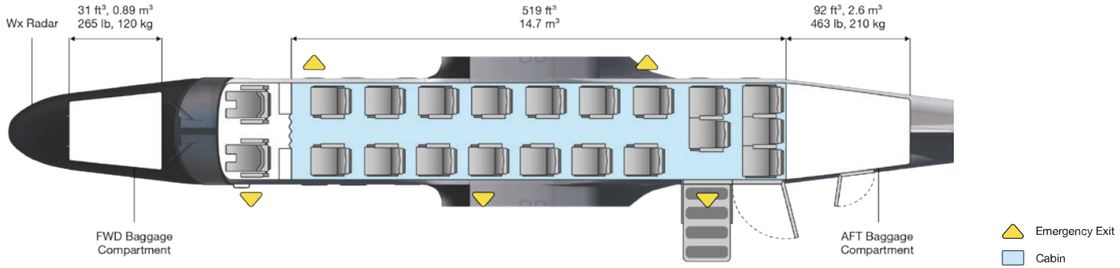
A high standard of passenger comfort is the primary consideration in the Do228 NXT design. The standard cabin consists of 19 individual passenger seats with 30-in pitch and offers airline standard passenger comfort in single seat configuration.

Its rectangular cross-section is the ideal shape for utility applications and provides passengers with ample space at shoulder height, extra passenger headroom and cargo storage space. Passengers enter through a passenger door with built-in steps on the LH side of the rear fuselage. An 18-seat layout with a toilet at the rear of the cabin is also available.

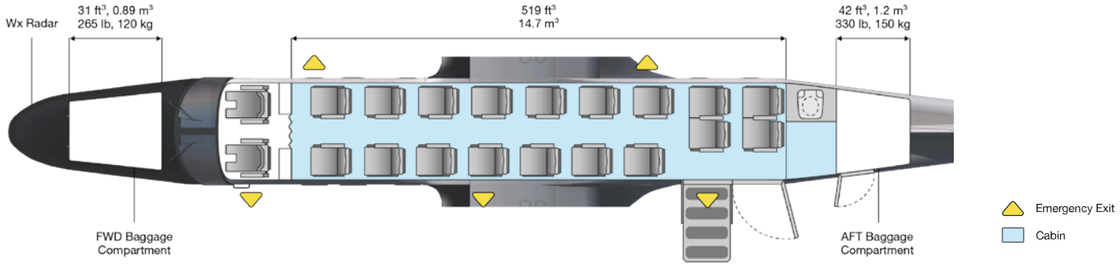
MISSION ADVANTAGES

- ✓ Transportation of up to 19 passengers
- ✓ Quick and easy conversion between cargo and passenger layout
- ✓ Rectangular cross-section provides more space for passengers
- ✓ Proven around the world in passenger transportation
- ✓ STOL capability to land on small and short runways

PAX layout - 19 passenger seats



PAX layout - 18 passenger seats with toilet

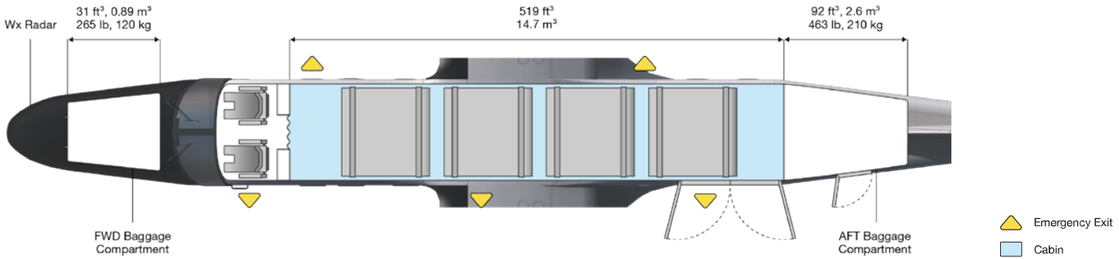


CARGO TRANSPORT

Seats can be removed quickly to convert the cabin for cargo transportation. To ease loading, a massive opening for bulky or heavy cargo can be created by opening the normal passenger door sideways, together with the adjacent door. Parcels and crates of all sorts can be distributed quickly and easily inside the cabin. While smaller and lighter cargo items can be secured with nets, bulky and heavier cargo stacked on pallets can be locked to the seat rails.

The rectangular cabin with its 23 feet of usable length significantly eases the transportation of bulky cargo or longer goods. Whatever your cargo may be, a total of two metric tons can be transported due to the large cabin space of 519 cubic feet.

Cargo layout



MISSION ADVANTAGES

- Up to 2,155 kg cargo payload capability
- Simple loading and unloading through large cargo door
- Transport missions to small, even unpaved airfields and remote areas
- Easy conversion from passenger to cargo layout
- Rectangular fuselage cross-section offers more space

VIP TRANSPORT

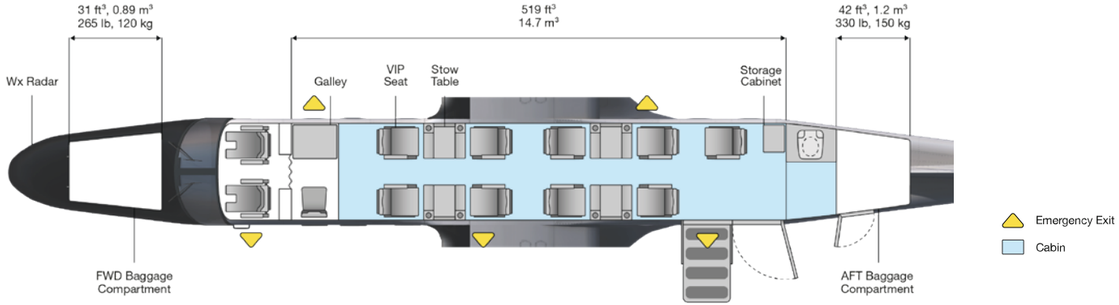
The Do228 NXT delivers exceptional performance combined with operational flexibility. Perfectly suited for VIP transport, it blends rugged reliability with a high level of travel comfort. Thanks to its STOL capabilities and the ability to operate on unpaved or short runways, it can access significantly more destinations than conventional jets—offering you true freedom of movement. Its low maintenance requirements ensure high availability and cost-effective operation all year round.

With modern air conditioning and cabin interiors tailored to your wishes, you can travel comfortably and with flair. Thanks to its special design, the cabin can be configured flexibly—with up to 19 seats plus tables, storage, screens, or even sofas.

MISSION ADVANTAGES

- STOL capability to land on small and short runways
- Increased travel comfort due to optional lavatory
- Rectangular cross-section provides more space for passengers
- Individual cabin layouts according to customer requirements possible
- Low maintenance needs and high availability

VIP layout

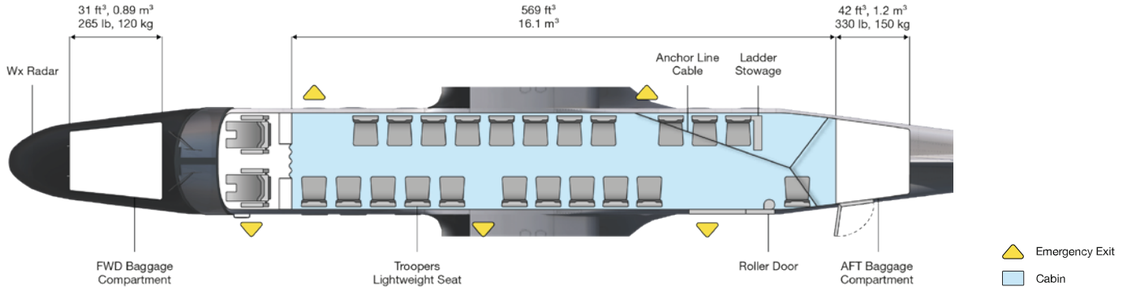


PARATROOPER DEPLOYMENT

With its STOL capability and rectangular fuselage cross-section, the Do228 is ideally suited for the transportation and deployment of paratroopers. In this configuration 21 paratroopers and 1 jumpmaster can be transported (limited to 19 paratroopers under civil registration). The layout is easily changeable to the trooper version by removing the anchor line cable and jump master equipment.

The paratrooper version is characterized for example by side facing fold-up troop seats, roller door, anchor line cable and side wall protection. An access ladder provides easy boarding for the paratroopers.

Paratrooper layout (21 paratroopers, 1 jumpmaster)



MISSION ADVANTAGES

- ✓ Transport and deployment of up to 21 paratroopers
- ✓ STOL capability allows paratrooper deployment from almost any airfield
- ✓ Quick conversion to passenger transport layout possible
- ✓ Easy airborne exiting through large roller door
- ✓ Rectangular fuselage cross-section provides more space for paratroopers

MARITIME SURVEILLANCE

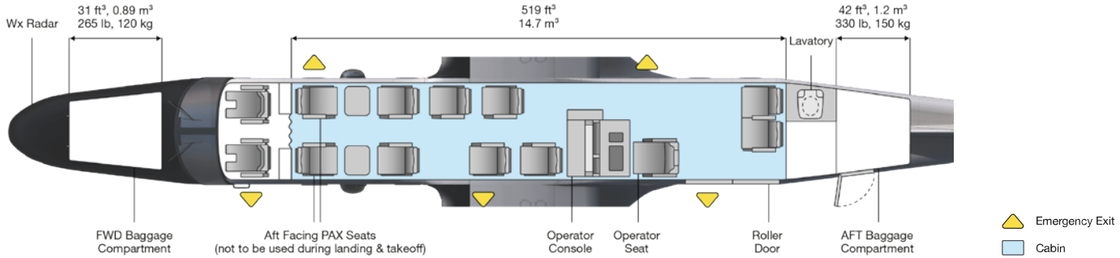
The Do228 in its Maritime Patrol configuration is a highly capable multi-role aircraft designed for coastal surveillance, search and rescue (SAR), as well as law enforcement missions. Equipped with advanced radar systems, electro-optical sensors and mission management consoles, it provides real-time intelligence and situational awareness. All equipment is installed according to the customers needs and wishes.

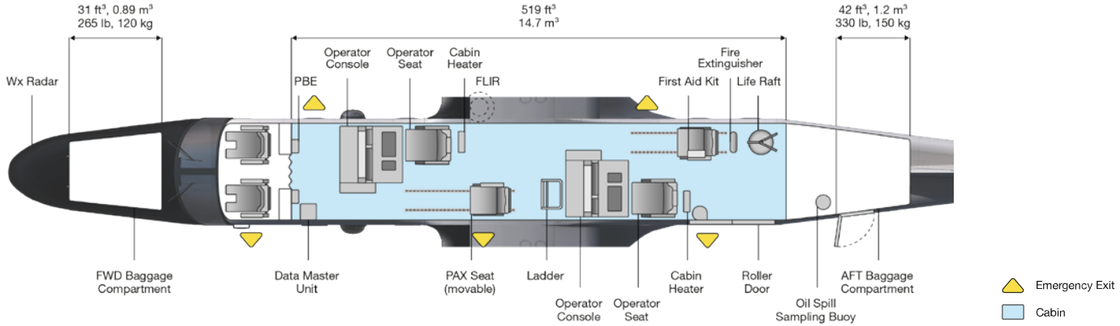
There are various layout options with one or two operator consoles and multiple passenger seats. The modular adaptation of the cabin to your requirements offers you the best conditions for your mission.

MISSION ADVANTAGES

- ✓ Long mission endurance
- ✓ Possibility to operate at different heights, including very low heights
- ✓ Various high-tech sensor options for monitoring equipment
- ✓ Installation of operator consoles in the cabin
- ✓ Very cost efficient in operation and therefore well suited for patrol missions

Maritime Patrol layouts



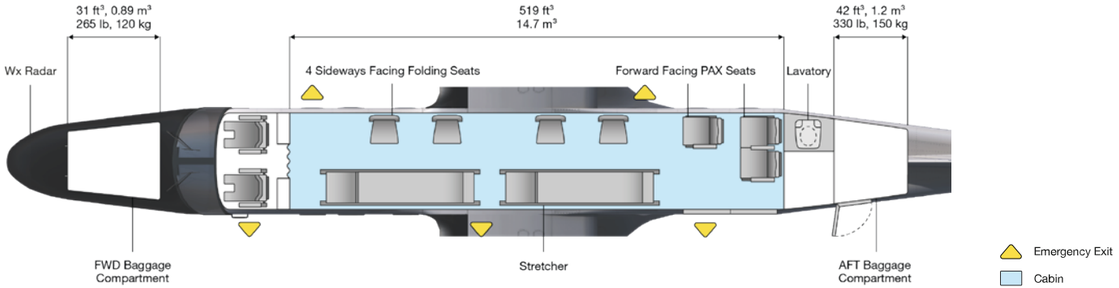


MEDICAL EVACUATION

The ambulance equipment has been designed to cover different mission aspects. The MedEvac equipment comprises of a number of compatible, partially redundant and interchangeable modules, that facilitate quick change and case focused set ups for mere transport to intensive care of patients. The given flexibility enables the operator to offer a range of highly desirable medical services.

Complying to the MedEvac hygienic requirements, the cabin ceiling and walls of the Do228 NXT are covered with a polycarbonate lining with a washable surface for sanitising. The cabin floor is covered with a special washable anti-skid coating that protects the aircraft's lower structure against contamination by fluids and prevents slipping. The cabin can be equipped with various combinations of forward and side facing seats and double stretcher as well as intensive care stations.

MedEvac layout



MISSION ADVANTAGES

- ✓ STOL capabilities enable operation in many regions
- ✓ Space for several stretchers and medical staff
- ✓ Meets hygienic requirements with polycabonate covering
- ✓ Landing on unpaved runways enables MedEvac operations in remote areas
- ✓ Simple conversion from MedEvac layout to other transport layouts (cargo, passenger)

MISSION ADAPTABLE

The Do228 NXT in customized maritime patrol configuration is the most suitable and economical solution for your mission.

Proven to be the optimal platform for tailored solutions, the Do228 is deployed worldwide, meeting diverse mission requirements with advanced mission systems. Our decades of experience ensure the best selection and integration of mission systems. Numerous mission applications have been successfully implemented, showcasing our commitment to excellence and versatility. Whether it's radar systems, optical systems or communication systems - the possibilities are endless. We are dedicated to meeting customer requirements with innovative solutions that push the boundaries of technology and performance.

1 Integrated Glass Cockpit

2 Operator Console

3 Bubble Windows

4 SLAR (side-looking airborne radar)

5 360° Surveillance Radar

6 VIS Line Scanner
8 MWR
7 UV/IR Scanner

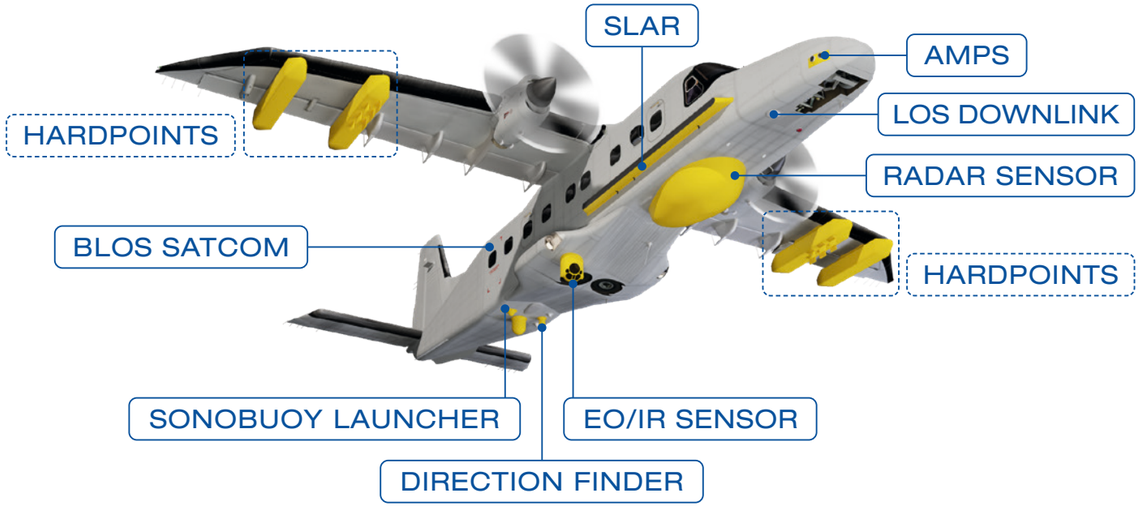
9 EO/IR Turret

10 Cargo Door

Pax Door

MISSION ADAPTABLE

The Do228 NXT sets new standards for mission flexibility through its advanced sensor integration capability and various mission equipment options. Sensors from several major manufacturers can be installed. Four hardpoints under wing allow to carry additional equipment and increase the flexibility. With its versatile sensor options, the Do228 NXT can collect high-quality data and make it available to operators.



MARITIME PATROL AIRCRAFT
Protecting what matters beyond the coastline

- ✓ Anti-submarine capability
- ✓ Electronic support measures (ESM)
- ✓ Magnetic anomaly detector (MAD)
- ✓ Sonobuoy launch capability
- ✓ Long-range coastal patrol

CENTRAL INTELLIGENCE

Emphasizes persistent surveillance and situational awareness

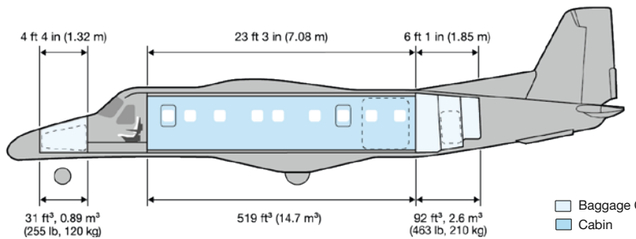
- ✓ SIGINT/ ELINT / COMINT capability
- ✓ Full-spectrum intelligence suite
- ✓ Persistent ISR capability
- ✓ Tactical sensor integration
- ✓ BLOS / LOS downlink & network capability

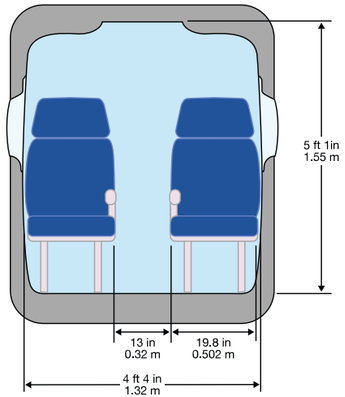
DISASTER RESPONSE

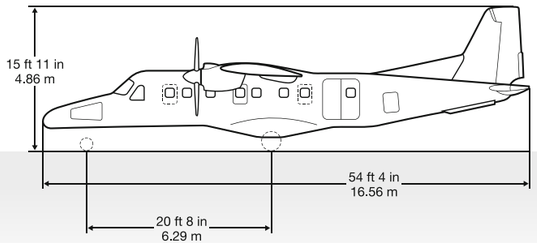
Discover, monitor and protect, disaster management and wildfire detection

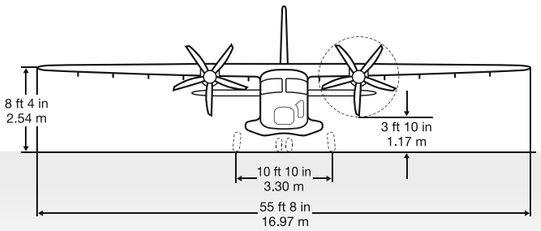
- ✓ Disaster response platform
- ✓ Emergency communications hub
- ✓ Multi-sensor intelligence
- ✓ Real-time awareness
- ✓ All-weather, all-terrain operations

AIRCRAFT DATA









DIMENSIONS

Overall height	15 ft 11 in	4.86 m
Overall length	54 ft 4 in	16.56 m
Wingspan	55 ft 8 in	16.97m

PASSENGER COMPARTMENT

Overall length	23 ft 3 in	7.08 m
Maximum width	4 ft 4 in	1.32 m
Maximum height	5 ft 1 in	1.55 m
Compartment volume	519 ft³	14.7 m³

DOORS (HEIGHT x WIDTH)

Cockpit door	2 ft 9 in × 2 ft 2 in	0.84 m × 0.65 m
Passenger airstair door	4 ft 5 in × 2 ft 1 in	1.34 m × 0.64 m
Passenger / cargo door (both door panels are open)	4 ft 5 in × 4 ft 2 in	1.34 m × 1.28 m
Baggage door (front)	3 ft 11 in × 1 ft 8 in	1.20 m × 0.50 m
Baggage door (rear)	2 ft 11 in × 1 ft 9 in	0.89 m × 0.53 m
Emergency exits (3)	2 ft 2 in × 1 ft 7 in	0.67 m × 0.48 m

ENGINES

Manufacturer	Honeywell	
Model	2x TPE331-10 engine with MTV-27 propeller	
Power output	579 kW (776 SHP) each (flat) rated power	
Takeoff noise level	76.7 dB(A)	
Temperature limits		
• Engine start	-40°F to 131°F	-40°C to 55°C
• Engine operation	-65.2°F to 131°F	-54°C to 55°C

WEIGHTS

	lb	kg
Max. takeoff weight (MTOW)		
• Standard	14,110	6,400
• Optional civil	14,495	6,575
• Optional military	14,550	6,600
Max. landing weight (MLW)		
• Standard	13,448	6,100
• Optional	14,110	6,400
Max. zero fuel weight (MZFW)	13,095	5,940
Basic weight		
• Cargo layout	8,157	3,700
• Passenger layout (incl. 19 PAX seats)	8,631	3,915
• Mission layout (incl. operator console)	9,204	4,175
Max. usable fuel		
• Standard	4,156	1,885
• Optional wet wing	4,965	2,252
Max. useful load		
• Standard	5,952	2,700
• Optional civil	6,338	2,875
• Optional military	6,393	2,900

PERFORMANCE

TAKEOFF

Takeoff distance to 35 ft[1]		
• ISA, SL	2,606 ft	794 m
• ISA + 10°C, 2,000 ft elevation	3,154 ft	961 m
• ISA + 20°C, 4,000 ft elevation	3,970 ft	1,210 m
Accelerate stop distance[1]		
• ISA, SL	2,562 ft	781 m
• ISA + 10°C, 2,000 ft elevation	3,027 ft	923 m
• ISA + 20°C, 4,000 ft elevation	3,684 ft	1,123 m
STOL takeoff distance to 50 ft[2]		
• ISA, SL	1,460 ft	445 m
• ISA + 10°C, 2,000 ft elevation	1,640 ft	500 m
• ISA + 20°C, 4,000 ft elevation	2,021 ft	616 m
Max. crosswind for ground operation	45 kts	83 km/h
Max. demonstrated crosswind for takeoff & landing	30 kts	55 km/h

CLIMB

Two engines climb rate[3]	1,637 ft/min	8.3 m/s
Single engine climb rate[4]	410 ft/min	2.1 m/s

FLIGHT

Max. cruise speed (ISA, 10,000 ft)	240 KTAS	
Max. operating altitude	25,000 ft	7,620 m
Single engine service ceiling[5]	17,000 ft	5,182 m
Max. endurance[6]		
• Standard	8.3 hrs	
• Wet wing option	10.4 hrs	
Max. range (Max. Fuel + Typical Payload 645 kg)[7]	1,323 NM	2,450 km
Max. range @ max. payload[7]	160 NM	296 km

LANDING

Landing distance from 50 ft[8]		
• ISA, SL	1,473 ft	449 m
• ISA + 10°C, 2,000 ft elevation	1,595 ft	486 m
• ISA + 20°C, 4,000 ft elevation	1,729 ft	527 m
STOL landing distance from 30 ft[9]		
• ISA, SL	1,189 ft	362 m
• ISA + 10°C, 2,000 ft elevation	1,227 ft	374 m
• ISA + 20°C, 4,000 ft elevation	1,319 ft	402 m

[1] MTOW (6,400 kg), paved dry runway, 0 kts wind, 0 % slope, flaps 1, engine failure at v_1
[2] MTOW STOL (5,700 kg), paved dry runway, 0 kts wind, 0 % slope, flaps 2, unfactorized data
[3] MTOW (6,400 kg), ISA, SL, flaps 1, V_Y
[4] MTOW (6,400 kg), ISA, SL, flaps UP, V_{YSE}
[5] MTOW (6,400 kg), ISA, flaps UP, V_{YSE}, 50 ft/min residual climb
[6] MTOW (6,400 kg), ISA, cargo layout (incl. 2 pilots, each 85 kg), FL100, 0 kts wind, max endurance speed,NBAA IFR reserves (100 NM alternate)
[7] MTOW (14,110 lb), ISA, FL100, 0 kts Wind, Best Range Speed, Cargo Layout incl. 2 Pilots each 187 lb, NBAA IFR Reserves (100 NM alternate)
[8] MLW (6,100 kg), paved dry runway, 0 kts wind, 0 % slope, flaps DN, unfactorized data
[9] MLW STOL (5,700 kg), paved dry runway, 0 kts wind, 0 % slope, flaps DN, unfactorized data

Cargo layout incl. 2 pilots each 187 lb, ISA, FL100, 0 kts wind, best range speed, NBAA IFR reserves (100 NM alternate)

GLASS COCKPIT

The cockpit is fitted with 4 large UNIVERSAL® displays featuring one Primary Flight Display (PFD) and one Multi Function Display (MFD) in front of each crew member located on the central panel. Additionally an Electronic Standby Instrument System (ESIS) is installed between the two MFD. Those crystal clear, sunlight readable HD displays provide the pilots with the specific information required during each phase of the mission.

KEY FEATURES

- Fully integrated Universal® EFI-890R avionics suite with four displays
- Native NVG PFD / MFD display available
- Digital autopilot
- Flight management system with RNP and LPV approach capabilities (dual SBAS / WAAS GPS)
- Dual AHRS and dual ADC
- Navigation display with TAWS overlay, ground proximity warning system
- TCAS II
- Emergency ESIS with navigation capability

Optional features

- V / UHF, HF, marine radio
- Satellite communication, data link
- TACAN, SAR DF
- Video stream to MFD for mission operation
- Ergonomic mission operator consoles
- Additional electrical heater for polar operation

LIFE CYCLE SUPPORT

General Atomics AeroTec Systems is the OEM and type certificate holder of the Do228. The aircraft has been manufactured at our site for more than 40 years. This means that we know the Do228 better than anyone else and can offer a wide range of services for the aircraft based on our extensive expertise.

Our Do228 service portofolio offers Do228 operators full life cycle support for the aircraft. This includes all MRO services, upgrades and modification options, customer material and technical support, engine overhauls for the Honeywell TPE331 as well as reliable AOG service.

With our certified training organization and state-of-the-art Do228 flight simulator, we offer pilot and crew training at the highest level. Our full life cycle support ensures that the aircraft can be operated safely, economically and in accordance with the customer requirements at any time.

BENEFIT FROM OUR EXPERTISE

- ✓ Full life cycle support for Do228 aircraft
- ✓ In-depth knowledge of the Do228 as the OEM
- ✓ Unmatched expertise from over 40 years of manufacturing and maintaining the Do228
- ✓ Certified excellence — EASA (Part 145 & Part CAMO), FAA (Repair Station), CAA UK (Part 145), and Nadcap (NDT)
- ✓ We offer high-quality workmanship
- ✓ One single location for all Do228 services

ABOUT US

We set new standards for the aviation of the future and create tailor-made solutions for our customers.

We are a modern, international aviation company and manufacturer of the legendary Do228. In Oberpfaffenhofen, in the heart of Europe, we offer maintenance, modernization and upgrades for the Do228 in a state-of-the-art service location. In our advanced assembly line we manufacture the new Do228 NXT. We also carry out maintenance services for NH90 helicopters.

Do228 aircraft have been manufactured and serviced at our site for over 40 years. Our team consists of around 350 motivated, talented and highly qualified employees.

General Atomics AeroTec Systems GmbH is a part of the General Atomics Europe group, which offers innovative, modern and customized solutions for customers in the business areas of aeronautics, infrastructure and sustainability.
We are an affiliated company of General Atomics.

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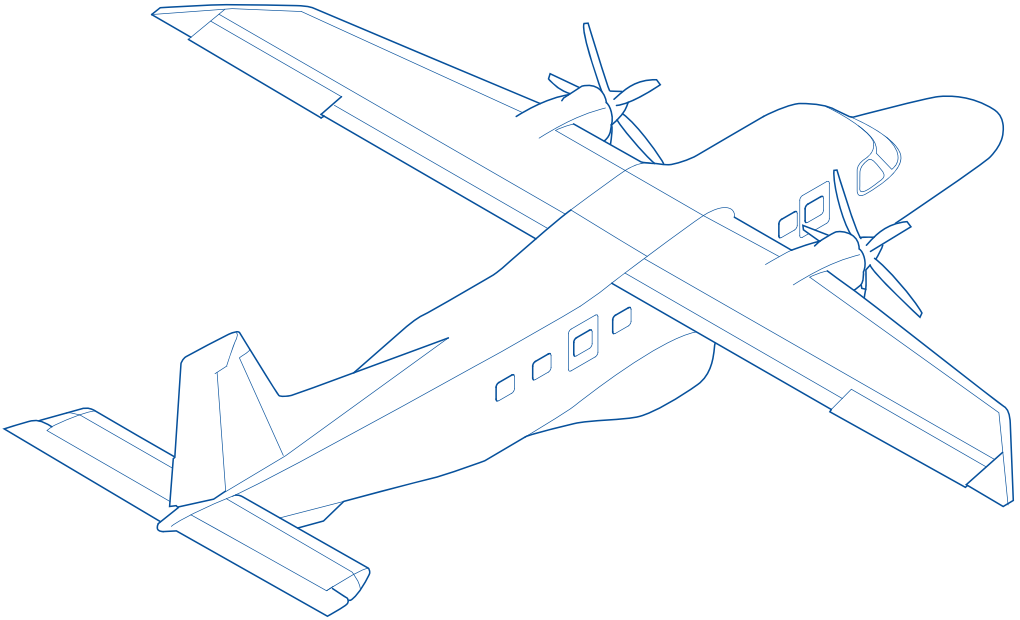

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