Do228 NXT

GENERAL ATOMICS AEROTEC

THE VERSATILE MULTIROLE AIRCRAFT

MISSIONS | LAYOUTS | SPECIFICATIONS | SERVICES

CONTENT OVERVIEW

THE VERSATILE MULTIROLE 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.

Following over 40 years of successful and reliable service of the previous Do228 version, the next-generation Do228 NXT features 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
450 m landing distance

Cruise speed
240 KTAS

High endurance
over 6 hours

Flight range
1,360 NM

PAX capacity
up to 19 passengers

Payload
typical 2,240 kg

MISSION ADVANTAGES

OPERATIONAL

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

MULTIROLE

- ✓ Optimized rectangular cabin space
- ✓ Versatile cabin layout options
- ✓ Multiple mission equipment variety
- ✓ Easy conversion of cabin layouts

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 14,495 lbs MTOW (6,575 kg)
- ✓ 4 under wing hardpoints available
- ✓ Quick & easy cargo door swap

MISSION AREAS

Border Patrol
Long mission endurance and high-tech sensor options

Environmental Monitoring
Various sensor setups and long mission endurance

Research Platform
Ease of sensor integration due to rectangular unpressurized cabin

MedEvac Flights
Reliable operation for patients and medical supplies

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

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

Cargo Transport
2.000+ kg cargo payload capability with easy loading and unloading

Maritime Patrol
Low level flying with proven performance in salty environments

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

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 to remote areas and small islands. It is also used for medical evacuation (MedEvac) missions.

Current worldwide Do228 operators

Border surveillance

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

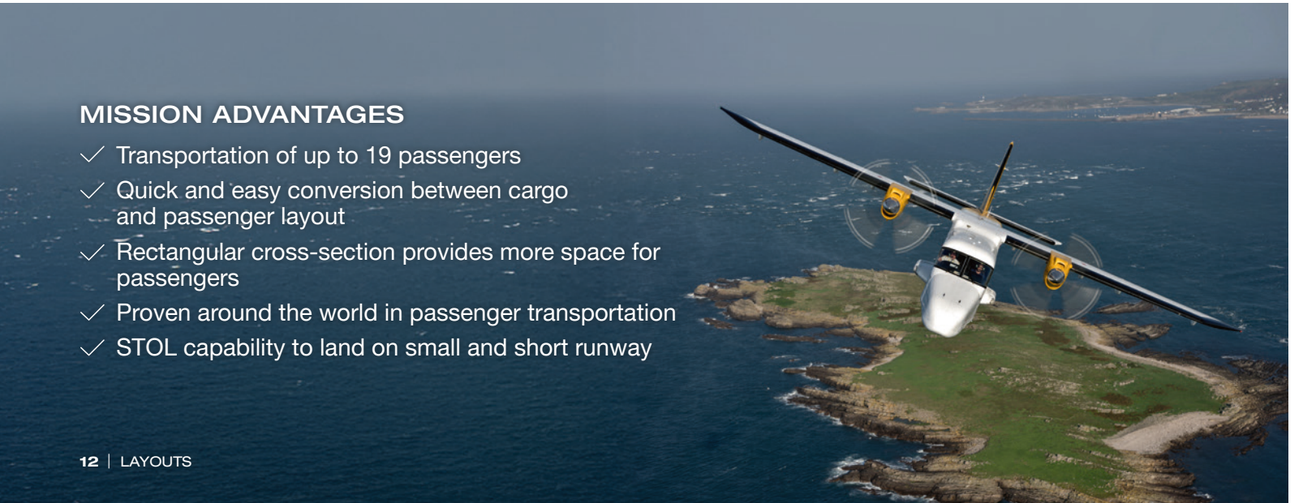
The Do228 is the platform of choice for special mission operations taking place between low level and 10,000 ft. Military and government law enforcement organizations operate the Do228 worldwide for maritime patrol (pollution control, search and rescue, border control, fishery patrol), research flights, surveillance and reconnaissance. Therefore, the Do228 can be optimally adapted to its mission areas with versatile sensors and mission equipment.

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

PASSENGER LAYOUT

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.

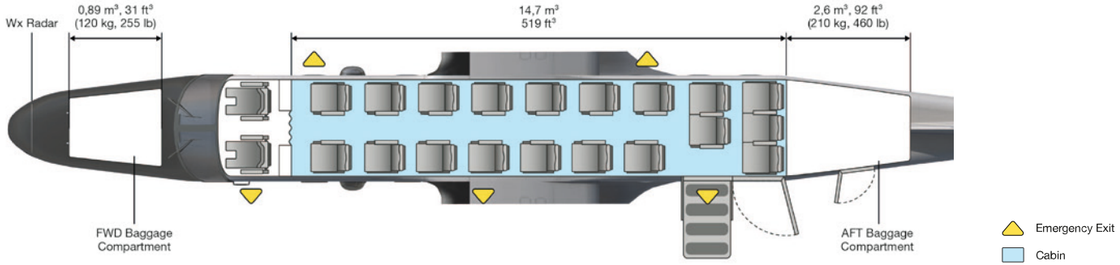
Its rectangular cross-section is the ideal shape for utility applications and provides passengers with ample space at shoulder height, extra passenger headroom and cargo storage space. Passengers enter through a passenger door with built-in steps on the LH side of the rear fuselage. An 18-seats layout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



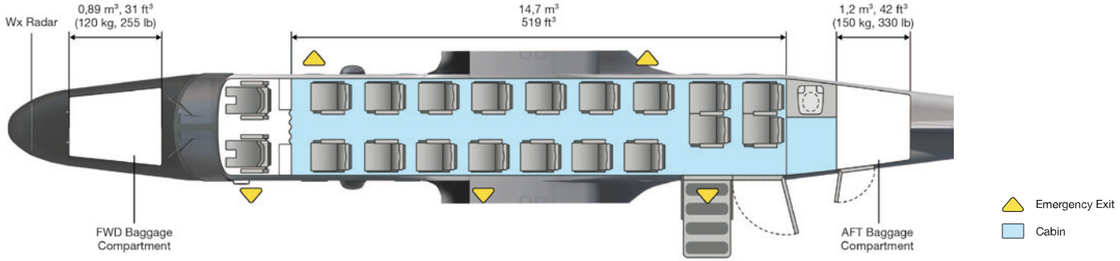
MISSION ADVANTAGES

- ✓ 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 runway

PAX layout - 19 passenger seats



PAX layout - 18 passenger seats with toilet

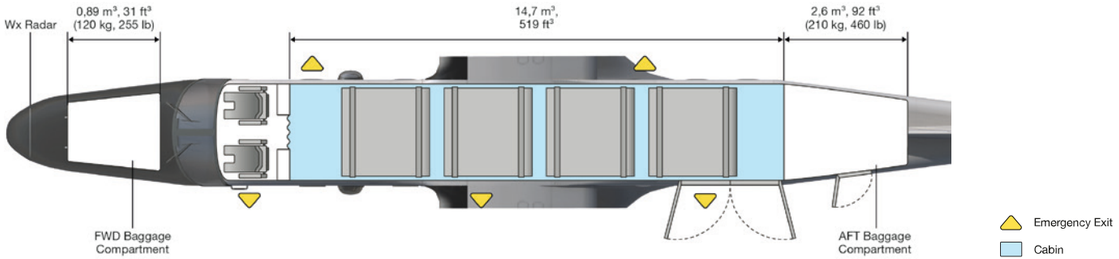


CARGO LAYOUT

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 ft of usable length significantly eases the transportation of bulky cargo or longer goods. Whatever your cargo may be, a total of 2 tons (512 cu ft) can be transported.

Cargo layout



MISSION ADVANTAGES

- ✓ 2,000+ kg cargo payload capability
- ✓ Easy loading and unloading through large cargo door
- ✓ Transport missions to small airports and remote areas possible
- ✓ Easy conversion from passenger to cargo layout
- ✓ Rectangular fuselage cross-section offers more space

VIP LAYOUT

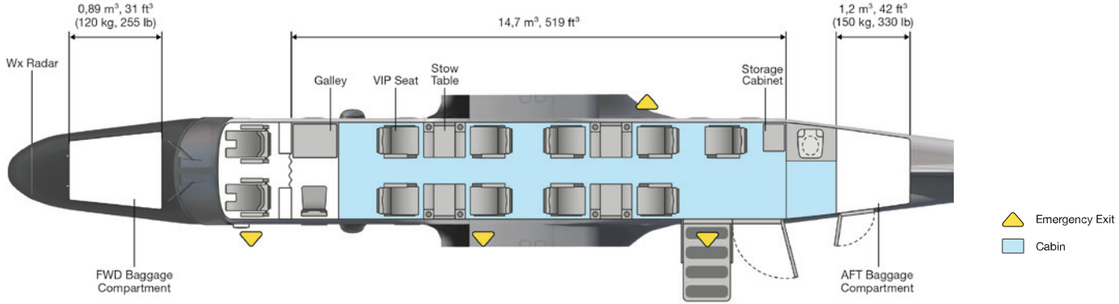
The Do228 NXT delivers exceptional performance combined with operational flexibility. Perfectly suited for VIP transport, it blends rugged reliability with a high level of travel comfort. Thanks to its STOL capabilities and the ability to operate on unpaved or short runways, it can access significantly 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.

Thanks to its special design, the cabin can be configured flexibly—with up to 19 seats plus tables, storage, screens, or even sofas. Conversions are quick and easy, allowing you to adapt the aircraft to your mission or comfort needs at any time.

MISSION ADVANTAGES

- STOL capability to land on small and short runway
- Increased travel comfort thanks to built-in 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

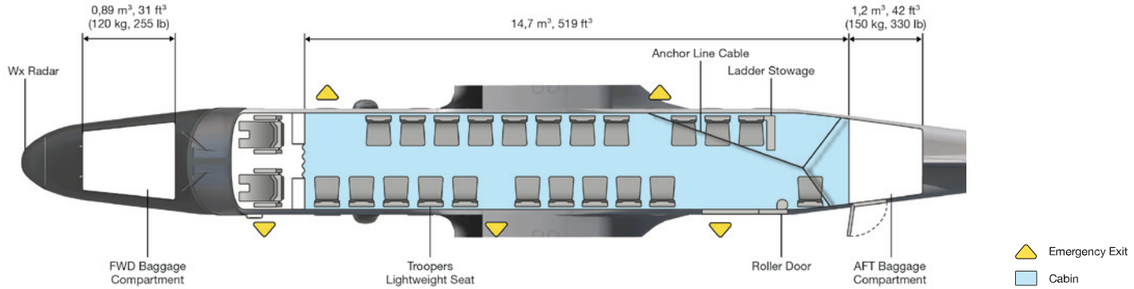


PARATROOPER LAYOUT

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 with ladder, anchor line cable and side wall protection.

Paratrooper layout (21 paratroopers, 1 jumpmaster)



MISSION ADVANTAGES

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

MARITIME PATROL LAYOUT

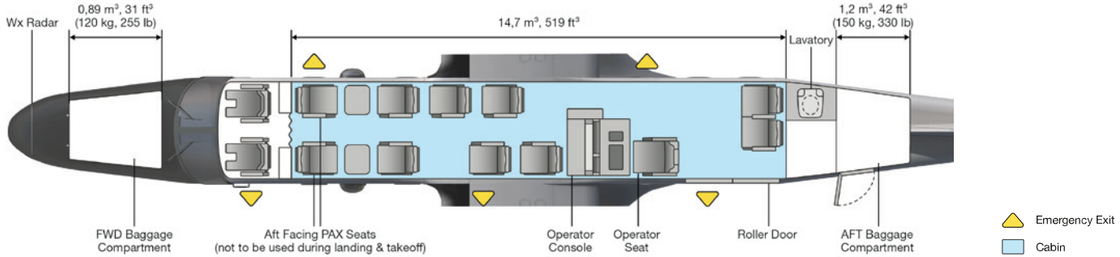
The Do228 in its Maritime Patrol configuration is a highly capable multi-role aircraft designed for coastal surveillance, search and rescue (SAR), as well as law enforcement missions. Equipped with advanced radar systems, electro-optical sensors and mission management consoles, it provides real-time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

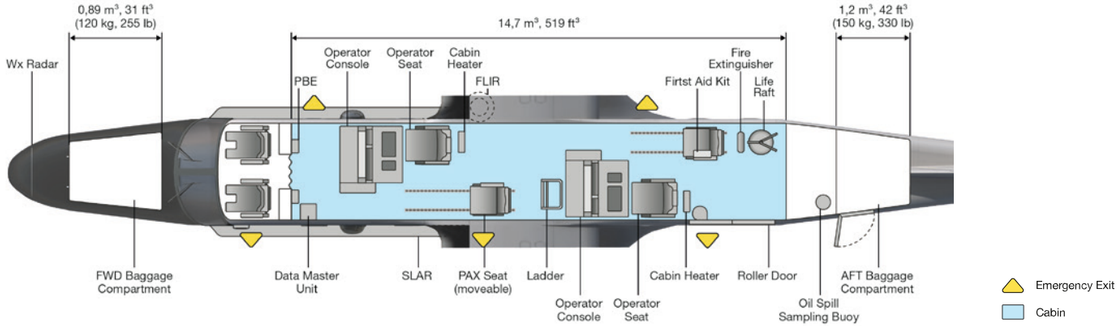
There are various layout options with one or two operator consoles and multiple passenger seats. The modular adaptation of the cabin to your requirements offers you the best conditions for your mission.

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 effective in operation and therefore well suited for this mission

Maritime Patrol layouts



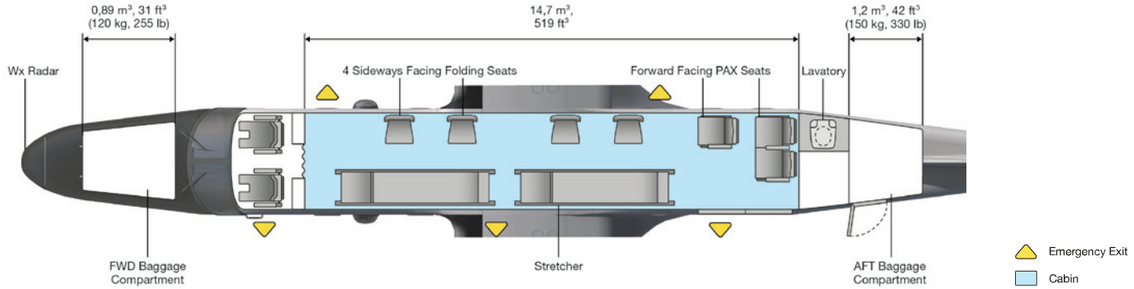


MEDEVAC LAYOUT

The ambulance equipment has been designed to cover different mission aspects. The complete equipment is sectionalized in separate specific modules, which enable quick change, if required, to support the multi purpose operation of the Do228 NXT. In accordance with MedEvac hygienic requirements, the cabin roof and walls of the Do228 NXT are covered with a polycarbonate lining with a washable surface and can be easily sanitised. The cabin floor is covered with a special washable, anti-skid coating to protect the aircraft's lower structure against contamination by fluids.

The cabin can be equipped with various combinations of forward and side facing seats and double stretcher as well as intensive care stations. The ambulance transport layout may be easily combined with trooper and paratrooper transport layouts.

MedEvac layout



MISSION ADVANTAGES

- ✓ STOL capabilities enables 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 diversity. 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

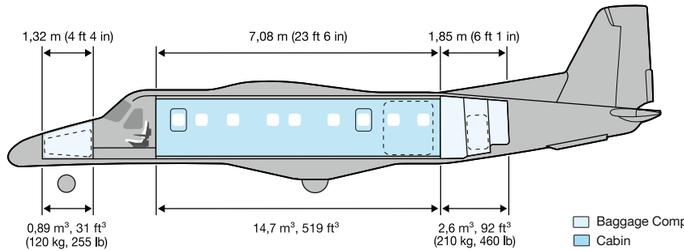
6 VIS Line Scanner
8 MWR
7 UV/IR Scanner

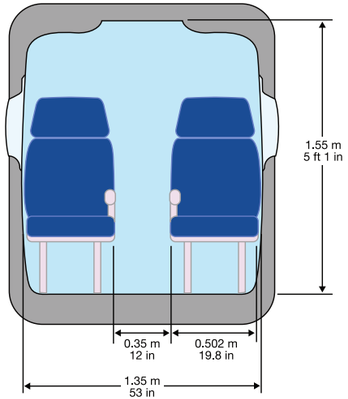
9 EO/IR Turret

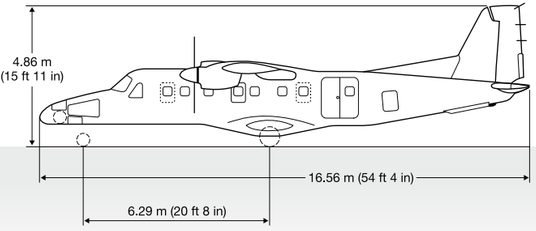
10 Cargo Door

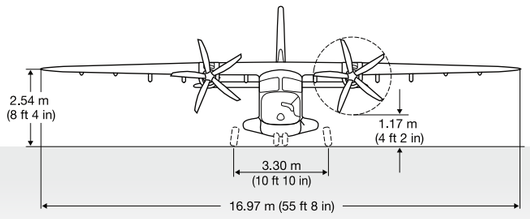
Pax Door

AIRCRAFT DATA









DIMENSIONS

Overall height	15 ft 11 in (4.86 m)
Overall length	54 ft 4 in (16.56 m)

WING

Span	55 ft 8 in (16.97 m)
Area	344.3 ft² (32.00 m²)
Aspect ratio	9.0
Taper ratio	0.7
Sweepback of leading edge	inboard 0° / outboard 8°

VERTICAL STABILIZER

Height	8 ft 10 in (2.70 m)
Area	64.6 ft² (6.0 m²)
Aspect ratio	1.50
Taper ratio	0.46
Rudder area	16.1 ft² (1.5 m²)
Rudder deflection	-24° / +24°

PASSENGER COMPARTMENT

Overall length	23 ft 3 in (7.08 m)
Maximum width	4 ft 4 in (1.328 m)
Maximum height	5 ft 1 in (1.55 m)

AILERONS

Span	8 ft 10 in (2.69 m)
Area	2 × 14.5 ft² (2 × 1.345 m²)
Deflection (Flaps 0°)	25° up /18° down
Chord	30 %

HORIZONTAL STABILIZER

Span	21 ft 2 in (6.45 m)
Area	89.6 ft² (8.33 m²)
Aspect ratio	5.00
Taper ratio	1.00
Elevator deflection	-30° / +25°

DOORS (HEIGHT × 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	(1.2 m × 0.5 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)

WEIGHTS	lb	kg
Max. takeoff weight (MTOW)[1]	14,110	6,400
Max. landing weight (MLW)[2]	13,448	6,100
Max. zero fuel weight (MZFW)	13,095	5,940
Typical operating weight empty (with 2 Pilots + 19 PAX seats) (OWE)	8,598	3,900
Mission equipment (incl. operator and console)	1,047	475
Max. usable fuel[3]	4,156	1,885

[1] optional MTOW increase to 6,575 kg (civil) / 6,600 kg (military) possible

[2] optional MLW increase to 6,400 kg

[3] optional wet wing increases max. usable fuel to 2,252 kg

PERFORMANCE

1 Range of takeoff distance to 35 ft

- 2,600 ft at MTOW, ISA, SL
- 3,300 ft at MTOW, ISA + 10°C, 2,000 ft elevation
- 4,300 ft at MTOW, ISA + 20°C, 4,000 ft elevation, engine failure at V1

Accelerate stop distance range

- 2,500 ft at MTOW, ISA at SL
- 3,150 ft at MTOW, ISA + 10°C at 2,000 ft elevation
- 3,800 ft at MTOW, ISA + 20°C at 4,000 ft elevation

STOL takeoff to 50 ft

- 1,460 ft (445 m)

2 Climb at ISA, SL conditions

- Normal 1,570 ft / min
- Single engine 400 ft / min

3 Max. range

- 1,360 NM (2,518 km)
- 250 NM (462 km) at max. Payload

Max. altitude

- 25,000 ft (7,620 m)

Speed

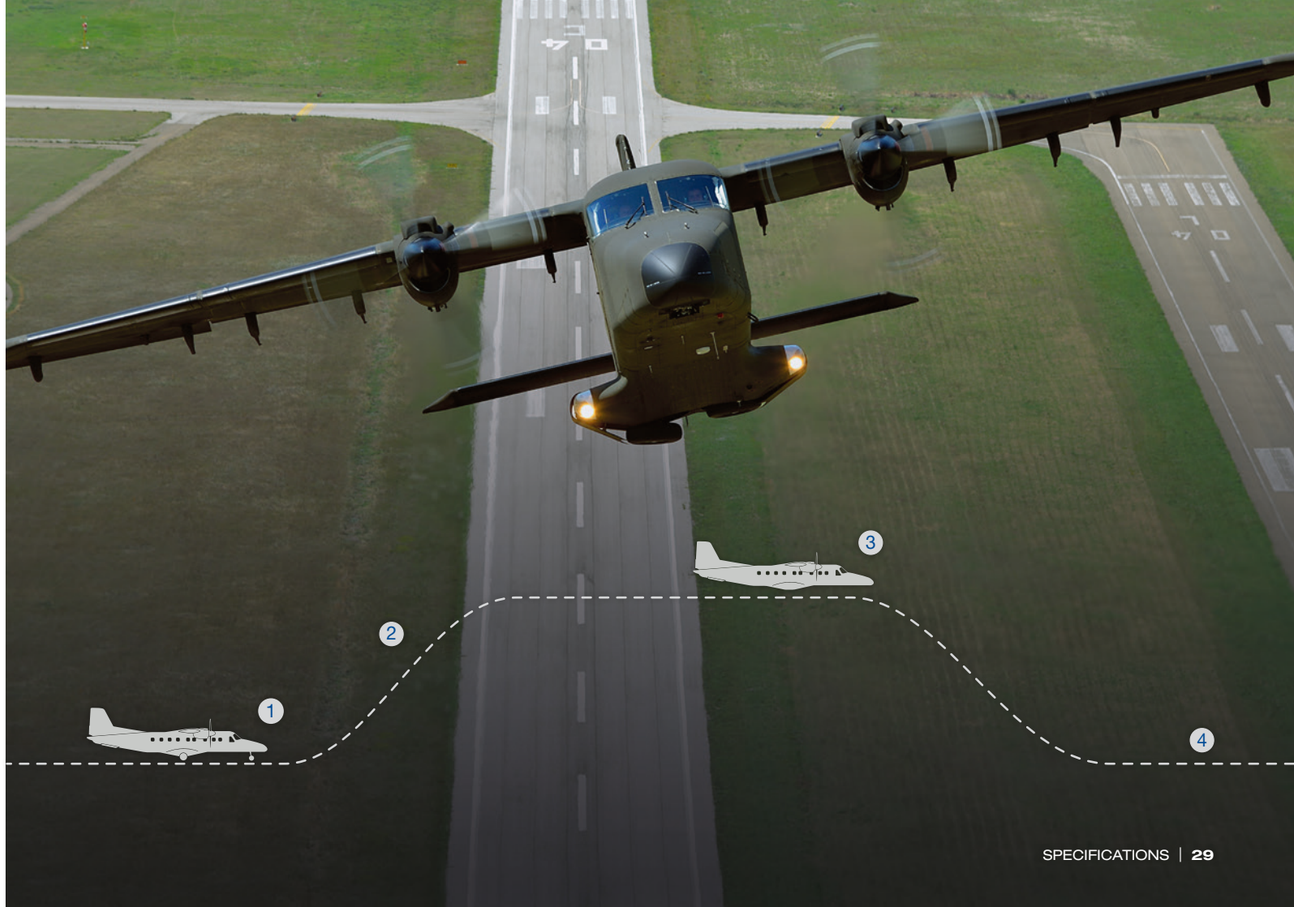
- Cruise speed 240 KTAS at 15,000 ft
- Min. control 74 KIAS

4 Range of unfactored landing distance

- 1,480 ft at MLW, ISA at SL
- 1,620 ft at MLW, ISA + 10°C at 2,000 ft elevation
- 1,775 ft at MLW, ISA + 20°C at 4,000 ft elevation

STOL landing from 30 ft

- 1,148 ft (350 m)



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

- TACAN, V / UHF, HF
- Cockpit voice recorder, flight data recorder
- Satellite communication, marine radio, SAR DF
- Video stream to MFD for mission operation
- Ergonomic mission operator consoles
- Roller door, bubble windows, wing station hardpoints, wet wing option, lavatory compartment, fuel dump, additional electrical heater for polar operation, logo lights

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

- ✓ GA-ATS offers full life cycle support for the Do228
- ✓ As the OEM, we at General Atomics AeroTec Systems know the Do228 best
- ✓ Long-standing experience from over 40 years of manufacturing and maintaining the Do228
- ✓ General Atomics AeroTec Systems holds all the necessary licenses and approvals
- ✓ We offer high-quality German workmanship
- ✓ All Do228 services out of one Hand

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.

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.

GA-ATS:
Scan here for more details

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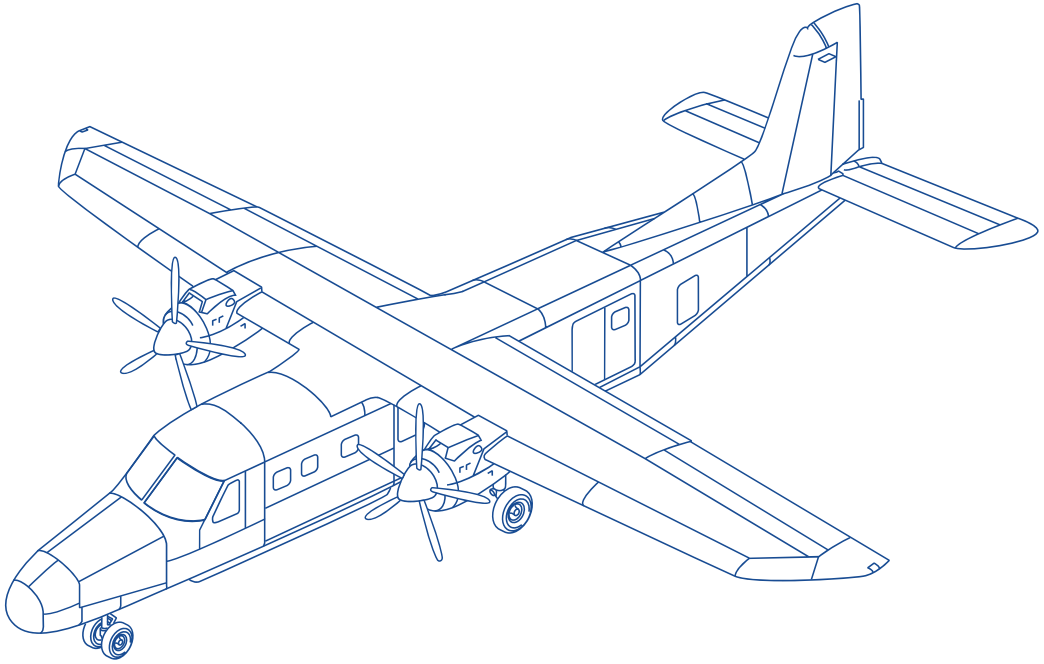

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