SEASTAR WORLD'S MOST ADVANCED AMPHIBIOUS AIRCRAFT





DORNIER SEASTAR

AMPHIBIOUS AIRCRAFT DESIGNED TO PURPOSE

The Seastar aircraft is engineered to operate from runway and water surfaces. It can perform airport to airport missions with its short field take-off and landing capabilities. At the same time, it is able to take-off and land on water, even under rough conditions. This unrivalled versatility and performance along with best-in-class cabin space, allows for entirely new missions. In the spirit of pioneering Dornier flying boats, the Seastar is superior in every important measure – speed, range, safety, cabin size and lower maintenance costs.



Max Cruise Speed 180 KTAS



Max Range

900 NM



Max Passengers

12 PAX



Max Take-off Weight

11240 LB



Take-off Distance, Land (MTOW)

2244 FT



Demonstrated Wave Height. Not Limiting

2 FT









CONSTRUCTED TO BE SAFE

SUPERIOR DESIGN

A main design principle of the Seastar is related to enhanced safety. The aircraft is certified by both EASA and FAA. Equipped with two proven and highly reliable Pratt & Whitney PT6A-135A turboprop engines in tandem configuration, which eliminates the possibility of asymmetric thrust in the event of an engine failure. It offers twin-engine reliability with docile single-engine handling.

The Seastar wing is constructed as a single continuous airfoil structure with a three spar fail-safe design. The same holds for the fuselage: the rigid structure and integrated design results in long structural life and high damage tolerance properties. The "boat hull" is able to cope with rough sea conditions. The Seastar design results in docile flying characteristics with a stall speed of only 66 KCAS in the landing configuration (land).

OPERATING ECONOMICS

In terms of direct operating costs, the Seastar is the most economical aircraft in its class. The all-composite, corrosion-free boat hull significantly reduces maintenance cost compared to other aircraft. Due to its manufacturing quality and durability, the residual value is poised to be significantly higher than that of metal aircraft.





FEEL THE POWER OF TWO TURBINES

EXCELLENT PERFORMANCE

With a maximum cruise speed of 180 KTAS, the Seastar is 40 KTAS faster than its nearest competitor. The powerful Pratt & Whitney PT6A-135A turboprop engines provide Seastar with 1,300 horsepower flat-rated, allowing the aircraft to become airborne quickly with take-off runs of only 2,244ft/684m on land and 3,445ft/1,050m on water (obstacle 35ft/10,67m, MTOW).



DURABILITY

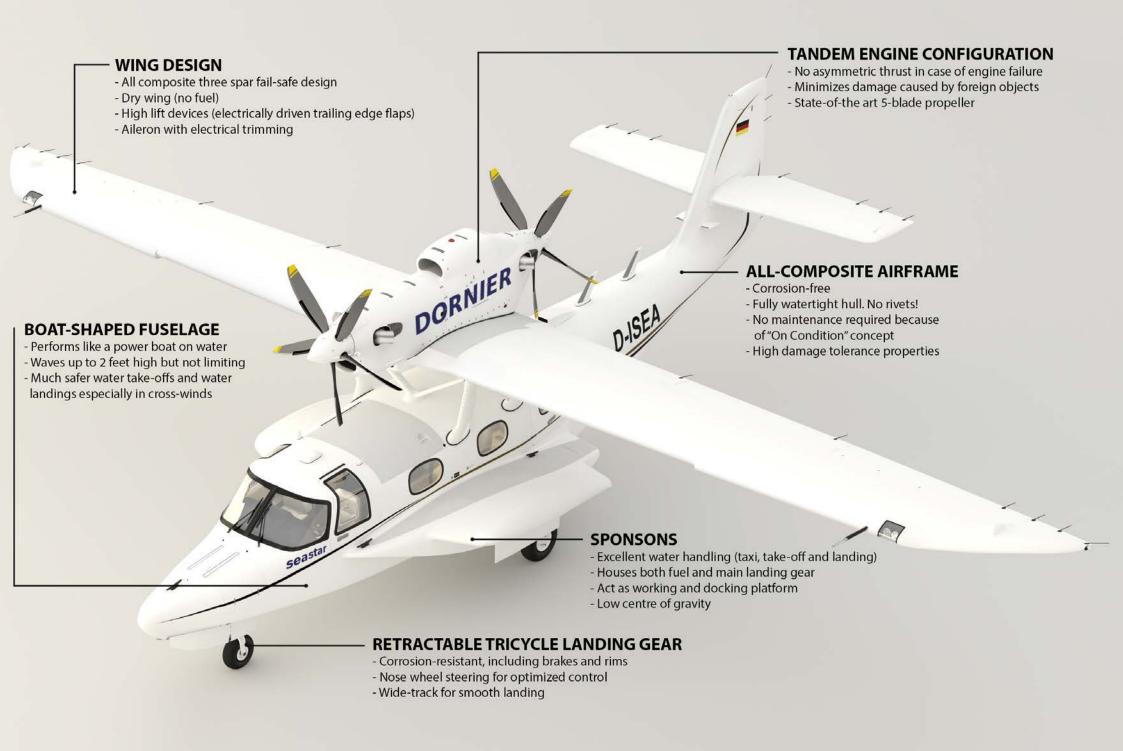
Conventionally designed aircraft and helicopters require a high level of time-consuming maintenance. The Seastar was systematically designed to reduce complexity and allows operators to focus on missions. The Seastar is durable in an economical sense, by combining the advantages of performance, efficiency and safety.

The Seastar was designed in Germany and strictly adheres to Dornier's high- quality standards. Its all-composite hull is resistant to extreme environments, even when the aircraft is left in saltwater areas. It is resistant and far more durable than conventional aircraft, especially if made from aluminium. The Seastar's all-composite airframe maintenance concept is "On Condition". The entire aircraft is certified for 30,000 flying hours after which a special inspection is required for extension.

FEATURES

The Seastar has a set of design features that create advantages not found on any other amphibious aircraft. Starting from the corrosion-free composite airframe and wide-track corrosion-resistant landing gear including brakes and rims, all the way to the centre-line engine configuration. All features combined lead to a safer and lower operating cost aircraft ideally suited to carry out various missions. A hydro stern thruster makes the Seastar turn around on the water 360° in both directions.







FULL SITUATIONAL AWARENESS

COCKPIT

The Seastar cockpit features Honeywell's state-of-the art Primus® Epic 2.0 avionic suite with advanced vision, communication, navigation, surveillance, air traffic management systems and allows for single-pilot operation.

THE SEASTAR COCKPIT FEATURES INCLUDE:

The Seastar's ergonomically configured flight deck reduces pilot workload by providing a full digital cockpit and electronic checklists. This aircraft is ideally suited for VFR and IFR flights.

Four 10" LCD Displays providing all flight information in an easily readable layout. They are installed in one line making a full situational awareness for both, pilot and co-pilot.

A fifth independent working backup display provides necessary flight parameters even in the case of an electrical power failure.







VFR/IFR **SAFE NAVIGATION**



world-wide technical **24H SERVICE**



QUICK TURNAROUNDS



iPad connected FLIGHT DECK



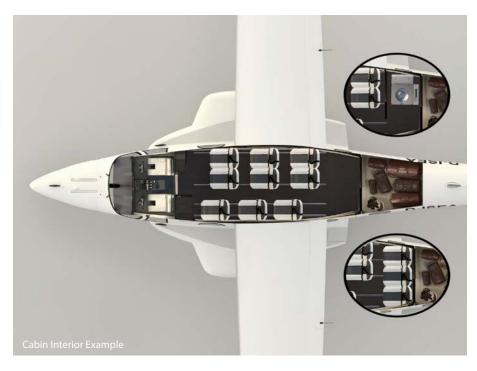
saltwater resistant and protected **EQUIPMENT**

MULTI VERSATILE

CABIN

The Seastar offers the most versatile and spacious cabin in its class, ensuring passengers a comfortable ride and an enjoyable experience. The large windows flood the cabin with natural light and offer outstanding visibility to the outside. A large-sized sliding door offers easy access from the cabin to the baggage compartment.





CORPORATE CONFIGURATION

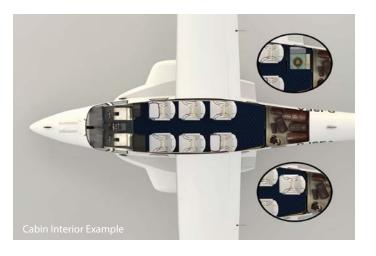
9 SEAT

- 9 comfortable seats
- Ergonomically designed interior
- Cabin wide flat floor
- Lavatory (optional)
- upgrade to 12 cabin seats by a triple seat bench (optional)

FIRST CLASS TRAVELLER

VIP CONFIGURATION

- A spacious cabin with generous shoulder and legroom
- 6 premium leather seats and lavatory (optional) or
- 7 premium leather seats without a lavatory
- Ergonomically designed interior
- Cabin wide flat floor
- Customized club- seating options
- Super-Yacht feeling



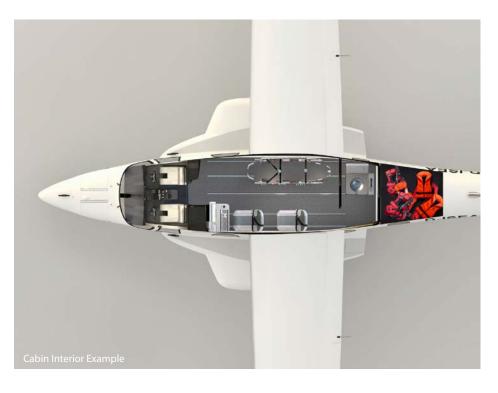


MULTI VERSATILE

GOVERNMENTAL AND SPECIAL MISSIONS

The Seastar is the ideal aircraft for operations such as coastal surveillance, patrolling, environmental control, fisheries protection, emergency medical services, search and rescue, drug interdiction and disaster relief, to name a few. It has the unique capability to combine both surveillance and immediate intervention by landing on water - wherever necessary.

Used as a multi-role platform the Seastar is able to perform the combined operational tasks usually requiring both air and seaborne assets. The sponsons act as a working and docking platform. This ability to combine asset tasking will produce faster response times, increase operational flexibility and reduce costs in comparison with the use of existing fixed wing, helicopter and seaborne assets. Operating in single-engine mode extends on-station endurance up to 24%.





SPECIAL MISSION

CONFIGURATION

- Most advanced amphibious mission platform
- Multi versatile mission equipment integration
- Continuous seatrails over the entire cabin floor
- Additional mission- equipment space in the baggage compartment

UNIQUE

MISSIONS

The Seastar is a multi-purpose aircraft delivering unmatched versatility at low operating costs. It covers a wide operational range of VIP-transport, commercial, governmental/special and corporate missions. Just tell us your requirements and we will tailor the Seastar to meet your demands.



AIRBORNE SUPER-YACHT

VIP MISSION

The Seastar is the ultimate amphibian for discerning owners looking for a comfortable and sound performer on water as well as on land, providing you with fast access to yachts, waterfront property, isolated lakes, ocean bays and island coves or just airport to airport connections. Whatever the destination - the Seastar is the safest and most enjoyable way to get there. The executive interior offers ergonomically designed seating and an optional lavatory. A large door allows for easy passenger boarding and cargo loading. In-flight access to bags and luggage complete the exceptional experience of travelling with your personal Seastar.





COMMERCIAL MISSION

Able to operate on water or land, the Seastar provides unforeseen flight opportunities for commercial operators. Its "flying boat" design enables to land in sea states with up to two-foot waves (demonstrated but not limiting). Moreover, due to the Seastar's ability of using a ramp to transition between water and land, passengers may board the aircraft without the need of an airport. Direct operating costs are significantly lower compared with aircraft of its size, due to higher cruise speeds and significantly reduced maintenance cost.





MULTI VERSATILE

GOVERNMENTAL AND SPECIAL MISSION

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FLEXIBLE

CORPORATE MISSION

With comfortable seating for up to twelve passengers and low direct operating cost (DOC), the Seastar is the best choice for fast transportation and corporate mobility on water and land. It can be configured to fulfil a wide range of special missions.







DORNIER

HERITAGE OF A PIONEERING SPIRIT

The Dornier Seastar aircraft program builds on the rich experience of 100 years of creating flying boats. This heritage and experience are deeply embedded in the company's DNA as engineering experts in aviation. It incorporates features that would be difficult to replicate without the experience gained in millions of flying hours and flight missions that Dornier flying boats have completed worldwide since the mid-1910s.

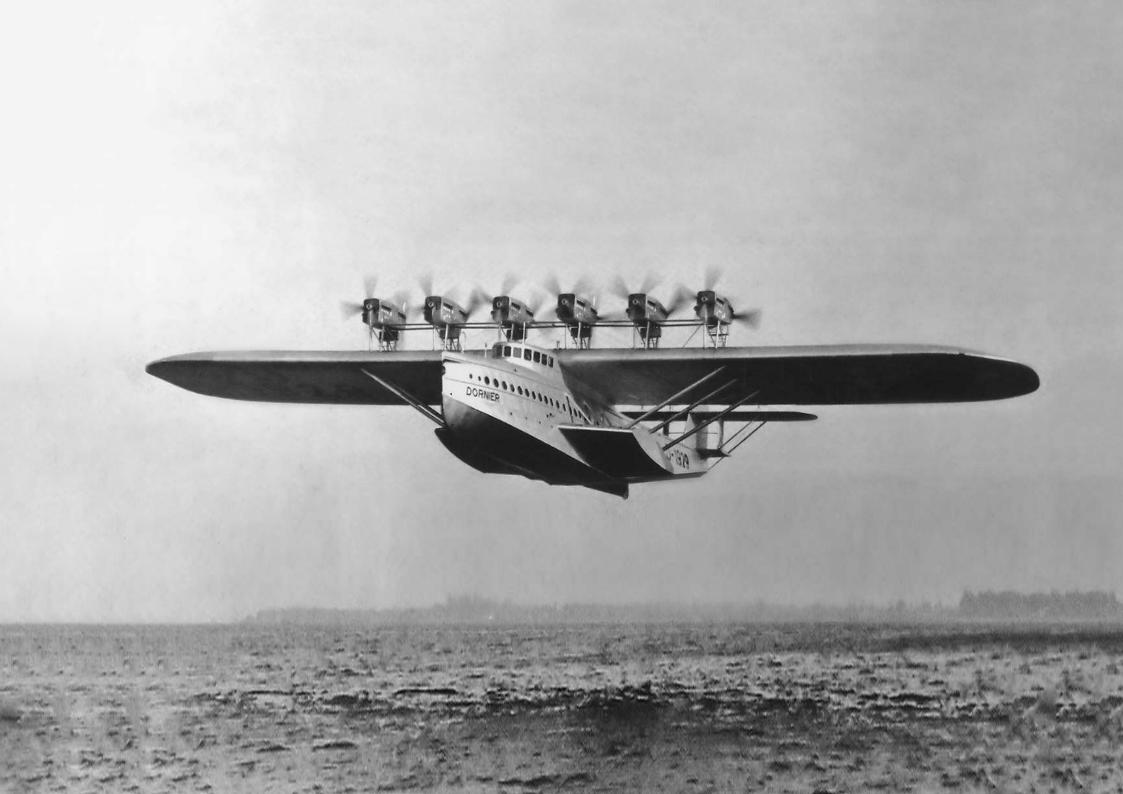
In 1910 Professor Claude Dornier began working with Count Zeppelin – the famous airship pioneer – from this point on the seeds for a family tradition in aviation were sown. The Dornier name was first associated with aircraft production in 1914 when the first all metal flying boat was built. Over the lifespan of the company, Dornier has produced more than 100 designs for both the civil and military market and manufactured over 10,000 aircraft.

Dornier rose to prominence in the 1920s and 1930s as a manufacturer of large, all-metal flying boats, including the 1924 built Wal and the 12 engine DO-X in 1929. The company also built a series of successful land planes, including the Komet and Merkur that were used by Lufthansa and other European carriers.

VISIT THE DORNIER MUSEUM

The Dornier Museum is located in Friedrichshafen at the Lake of Constance, Germany and offers a great overview of the Dornier Heritage.

www.dorniermuseum.de



DORNIER SEAWINGS

Dornier Seawings GmbH is an associate Joint Venture between the Dornier family and two fully state-owned Chinese enterprises. The Joint Venture is headquartered in Wuxi, Jiangsu Province, China.

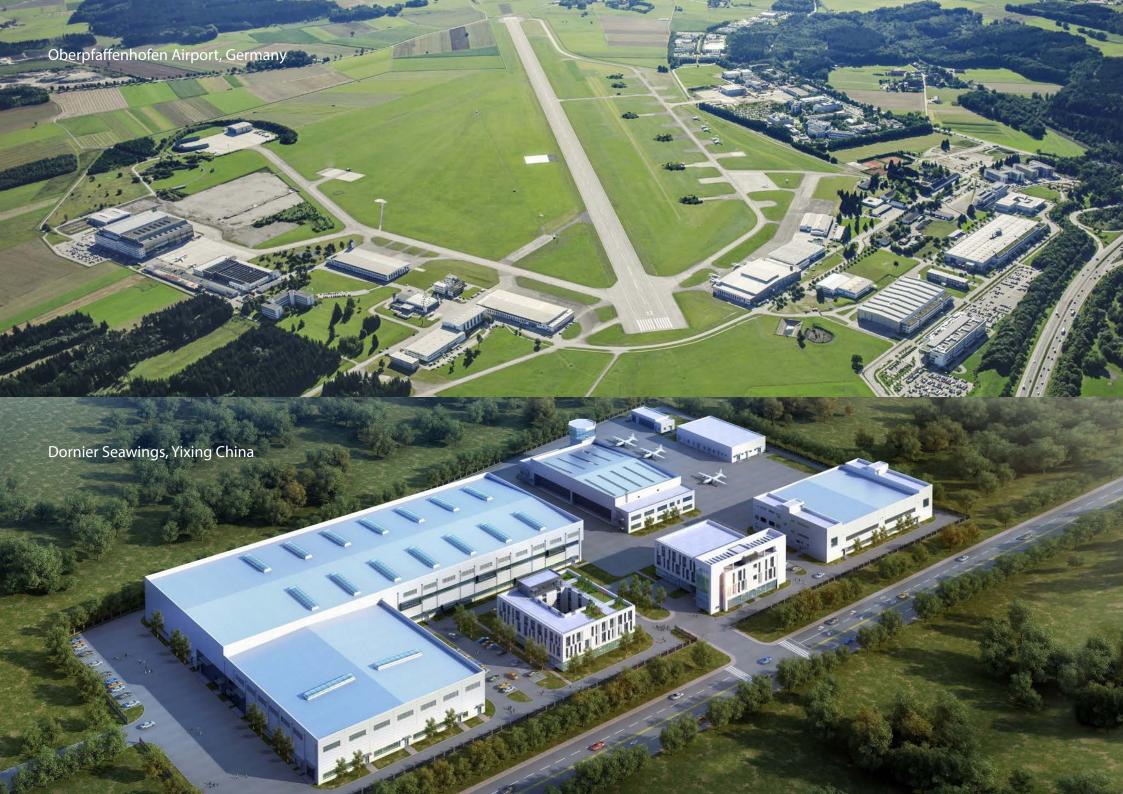
The company's mission is to design, produce, sell and support amphibious aircraft that offer operators enhanced mission capabilities to get a foot in new business fields, which will result in adding value.

"Unlimited runways" is the visionary approach to meet the 21st century goals in being an economical and environment friendly innovative product made for the worldwide demand for connecting people, interests and business.

Dornier Seawings GmbH in Germany provides the necessary know-how, while the Chinese partners provide the financial backing and entrepreneurial spirit to ensure a proper set up of the production and a sustainable business model. Production lines are currently set up in Germany (Oberpfaffenhofen) and planned in China (Wuxi), as shown.

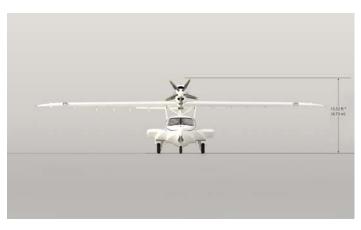
YOUR DORNIER SEAWINGS MANAGEMENT TEAM











SEASTAR CD 2

GENERAL AIRCRAFT SPECIFICATIONS*

ENGINES

Manufacturer Pratt & Whitney Canada

Model PT6A-135A Shaft-Horsepower per Engine 650 (Flat Rated)

EXTERNAL DIMENSIONS

 Wing Span
 58.2 ft (17.74 m)

 Length
 41.67 ft (12.70 m)

 Height
 15.52 ft (4.73 m)

 Wing Area
 329.38 ft2 (30.60 m²)

PROPELLERS

Manufacturer MT-Propeller

Number of Blades 5

INTERNAL DIMENSIONS

 Cabin Length
 13.12 ft (4.00 m)

 Cabin Height
 4.53 ft (1.38 m)

 Cabin Width
 5.35 ft (1.63 m)

 Total Cabin Volume (Incl. Baggage)
 347.20 ft3 (9.86 m³)

ACCOMMODATIONS

Crew Seats (One Pilot Required) 2

Passengers Seat Up to 12 Baggage Capacity 397 lb (180kg)

WEIGHTS

Approx. Basic Empty Weight 8,375 lb (3,800 kg)

(Stand. Config. 9 Cabin Seat)

 Maximum Ramp Weight
 11,351 lb (5,150 kg)

 Maximum Take-off Weight
 11,240 lb (5,100 kg)

 Approx. Useful Load
 2,865 lb (1,300 kg)

Maximum Landing Weights

Land 10,689 lb (4,850 kg) Water 11,020 lb (5,000 kg)

FUEL CAPACITY

Useable 363 U.S. gal (1,375 l)

SPEEDS

Maximum Cruise Speed 180 KTAS
Stall Speed (Landing Configuration, Land) 66 KCAS

RATE OF CLIMB

Two Engines at MTOW, SL 1,079 ft/min (329 m/min)
One Engine at MTOW, SL 392 ft/min (120 m/min)

CEILING

Maximum Operating Altitude 15,000 ft (4,573 m)

TAKE-OFF DISTANCES

Sea Level, ISA, (Over 35 ft/10.66 m Obstacle)

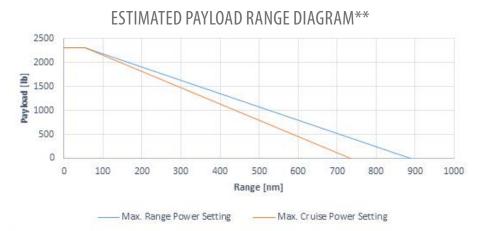
Land 2,244 ft (684 m) Water 3,445 ft (1,050 m)

LANDING DISTANCES

Sea Level, ISA, (Over 50 ft/15.24 m Obstacle)

Land 2,621 ft (799 m) Water 2,795 ft (852 m)

*PRELIMINARY DESIGN DATA; subject to change without any notice All data and information's published within this brochure are preliminary and subject to change without any notice



^{**}Conditions: ISA, Cruise at 15,000 ft, 1 Crew, Takeoff and Landing at Sea Level, VFR Reserve, Corporate Configuration (9 Seat)



Estimated Range Map Takeoff Oberpfaffenhofen, Germany**

Estimated Range Map Takeoff Wuxi, China**





DORNIER SEAWINGS

FOR YOUR NOTES:

for any further information please contact us via email: ms@dornierseawings.com (Marketing & Sales)

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DORNIER SEAWINGS

