



**JEKTA**

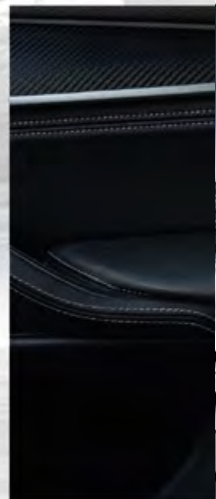
Passenger  
Hydro  
Aircraft  
Zero  
Emission

PHA-ZE 100

**JEKTA**

A NEW CLASS OF AMPHIBIOUS AIRCRAFT DELIVERING SUSTAINABLE FLIGHT

**Beyond The Journey**



## INDEX

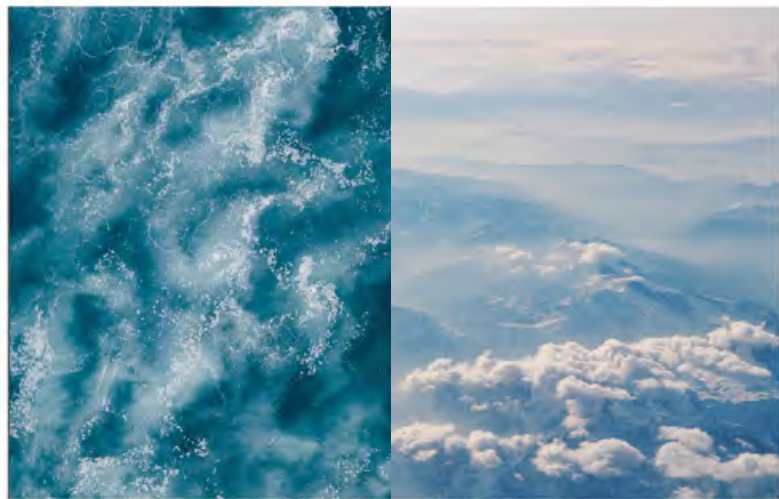
About Jekta	6
PHA-ZE 100	14
Features	32
Interior configurations	42
Enter the future	58



We are located in a heart of aerospace industry in Switzerland Cantone Vaud

#### OUR MISSION

To deliver sustainable, zero-emissions, amphibious airframes that optimise existing and new infrastructure to support safe, efficient, multiple operating parameters that add value to the global air transport network



#### OUR VISION

To launch a new era of affordable, sustainable regional air mobility in which we are the global leader in the amphibious aircraft sector



# Pioneering Sustainable Amphibian Aviation

With over 22 years of deep experience in amphibians, we are poised to revolutionize the industry with our cutting-edge, environmentally-friendly aircraft solutions

Leveraging the latest advancements in electric and hydrogen technologies, JEKTA is committed to delivering an unparalleled level of performance, efficiency, and environmental responsibility, setting a new standard for the future of air mobility.



# WHERE DO WE AIM TO GO FROM HERE

By blending our deep experience in amphibian design, production, sales, maintenance, incl familiarity with composite materials, with the latest advancements in electric and hydrogen technologies, JEKTA is pioneering a new era of environmentally-conscious aviation

## Decarbonizing

We are building a Swiss-made zero-emissions amphibian aircraft utilizing hydrogen fuel-cell technology

## Upsizing

We meet operator needs to be deeply impactful, while ensuring that best-in-class per-seat efficiencies and economics are achieved



# Addressing the untapped potential of amphibian aviation

## MARKET REPLACEMENT

**JEKTA's sustainable aircraft are poised to replace an aging fleet of traditional amphibian aircraft, offering a more efficient, environmentally-friendly, and technologically-advanced alternative to operators globally**

By transitioning to our zero-emission platforms, operators can significantly reduce their carbon footprint and unlock new operational capabilities

## MARKET EXPANSION

**JEKTA's innovative designs open up a world of new possibilities for amphibian operations. We enable the development of previously untapped routes & services**

Connecting remote communities, supporting resort development, eco-tourism, even essential medical and cargo service delivery to underserved regions globally

## UNLOCKING NEW FRONTIERS

**By seamlessly integrating land and water capabilities, JEKTA's amphibious aircraft unlock vast new opportunities for regional air mobility**

Our solutions can access a diverse range of operational environments, from bustling urban centers to isolated island communities, revolutionizing the way people and cargo move across the world



# PHA-ZE 100

Passenger  
Hydro  
Aircraft  
Zero  
Emission

PHA-ZE 100

# Why JEKTA aircraft are a best fit

OUR MODEL VARIANTS SERVE MARKETS AS DIVERSE AS



VIP/Exec layout for luxury resorts



19-seater vessels designed for workers in the O&G sector



Variants of cargo delivering fresh products, medicines, etc.



# JEKTA's amphibian aircraft represent the ideal fit within the global RAM ecosystem

**RAM definition:** transportation of passengers & goods by air over + 150-800km on 5-50 passenger aircraft (or equivalent size for cargo), primarily using smaller regional airports

## How does the PHA-ZE 100 fit within Regional Air Mobility'

RAM expansion will come from technology advancements, ever increasing importance of impact & sustainability, road and airport congestion, and the rise of MaaS (Mobility-as-a-Service)

Traditional RAM operations include land based only (including new eVTOL sector)

JEKTA fits in with the RAM revolution without complexities or infrastructure funding and practical complications (vertiports etc)



Jekta's PHA ZE-100 provide a solution to all these drivers and pressure points



Jekta's PHA ZE-100 provide a land AND water-based RAM solution

# Which problems and industry issues are we solving?

Current amphibian market has serious limitations with poor infrastructure support:

Limitations for right-sizing/best-fit of amphibian aircraft to match optimal & cost-efficient activities for operators

Outdated Technology used in current market offerings are archaic/+50y old - excessive maintenance requirements / low operational parameters

Negative environmental footprint onto areas such as island economies globally due to high carbon emissions etc

Vast untapped markets exist for amphibian operations today, connecting people / cargo / critical services more efficiently

# How are we solving them?

Sustainable technology offering the best right-sized product fit for operations

## Replacement Market

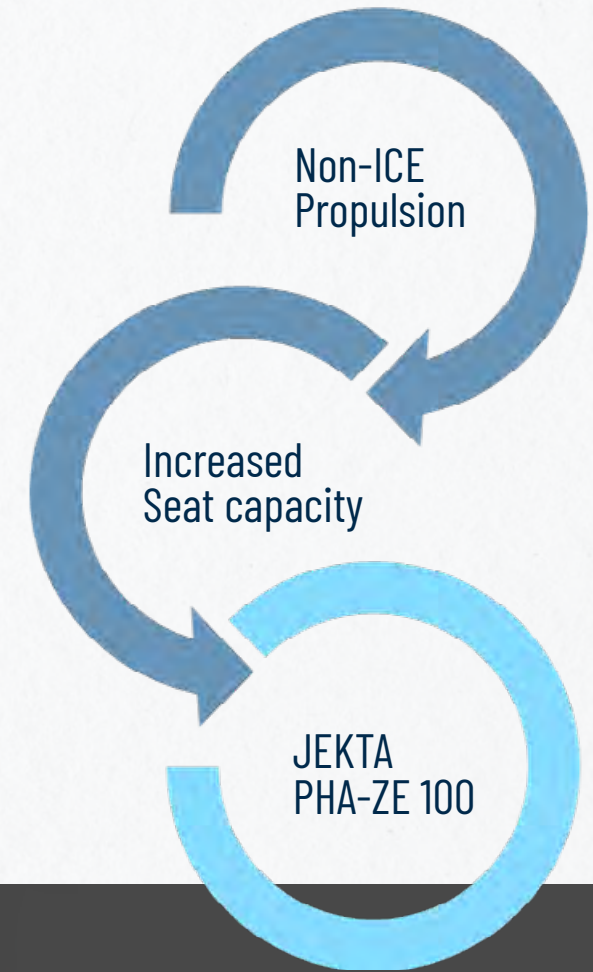
Older aircraft removed/replaced with new zero-emission technology aircraft

Around 1200 older ICE type units can be replaced by 2034

## Expansion Market

Introducing new zero-emission technology aircraft onto routes & networks that have never existed before, creating new markets for operators and investors

>500 new gen non-ICE type units can be deployed by 2034



# Introducing the PHA-ZE 100

JEKTA'S FLAGSHIP AMPHIBIOUS AIRCRAFT



# Seamlessly transitioning between water and land

The PHA-ZE 100 can operate from several kinds of runways including:

- Water
- Paved
- Unpaved

**The PHA-ZE 100 is a highly versatile amphibious aircraft capable of operating on both land and water**

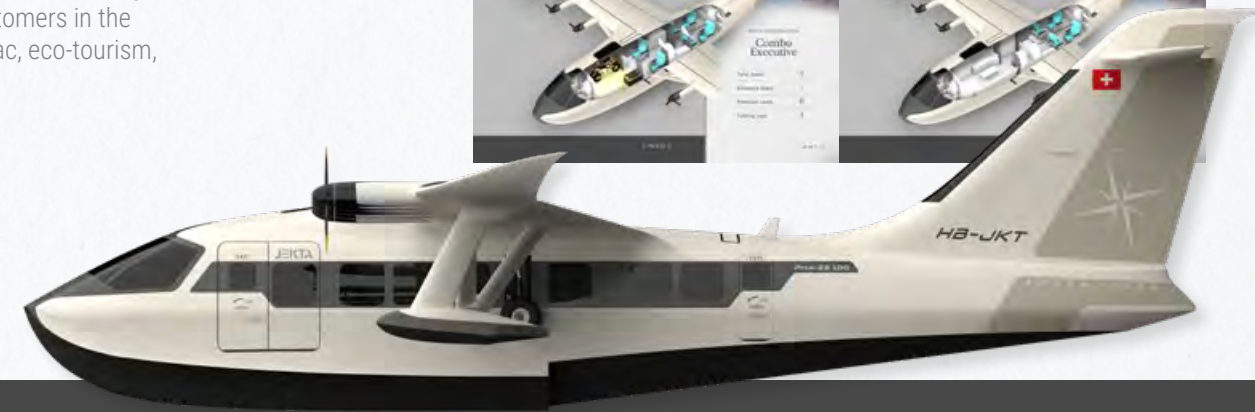
Its modular design allows for a range of passenger and cargo configurations, catering to the diverse needs of our customers in the regional transportation, medevac, eco-tourism, and disaster relief sectors



# Versatile Design

**The PHA-ZE 100 is a highly versatile amphibious aircraft capable of operating on both land and water**

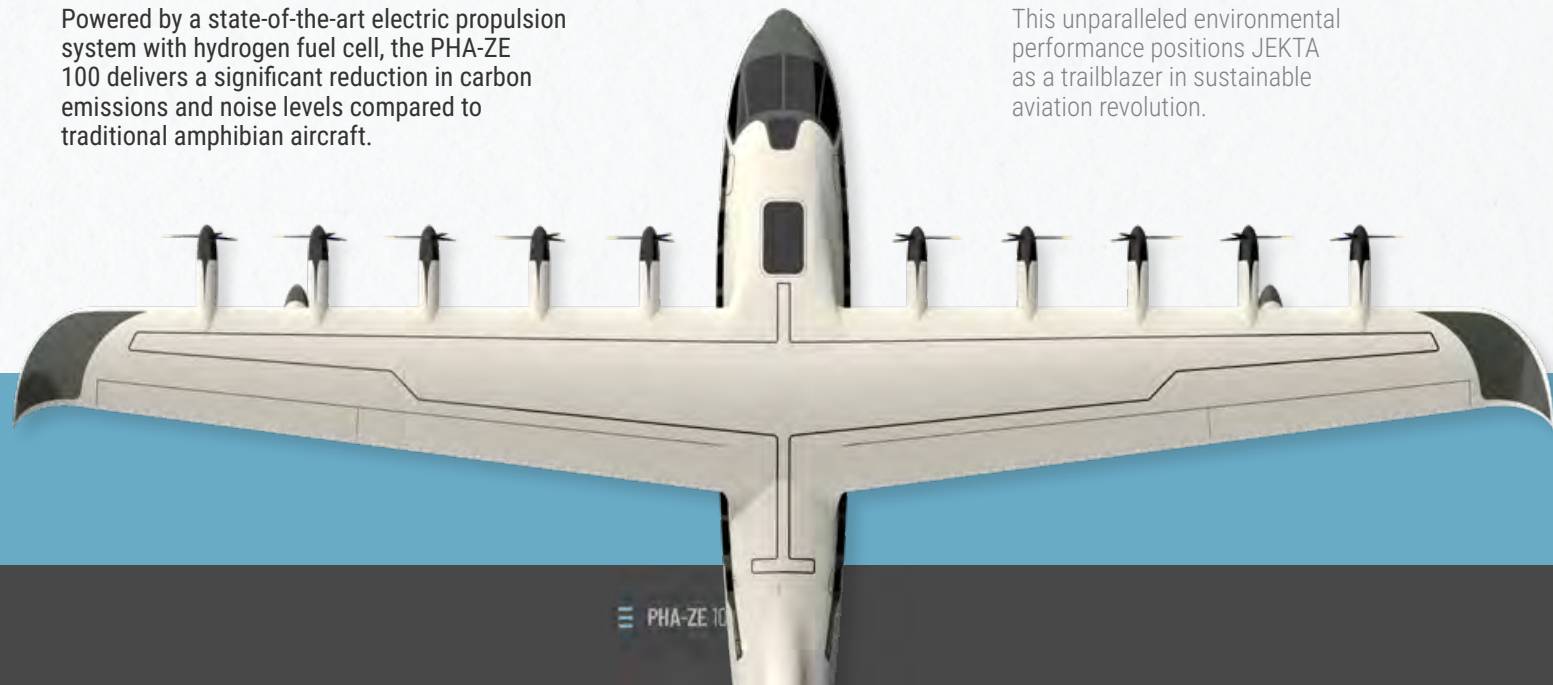
Its modular design allows for a range of passenger and cargo configurations, catering to the diverse needs of our customers in the regional transportation, medevac, eco-tourism, and disaster relief sectors



## Sustainable Propulsion

Powered by a state-of-the-art electric propulsion system with hydrogen fuel cell, the PHA-ZE 100 delivers a significant reduction in carbon emissions and noise levels compared to traditional amphibian aircraft.

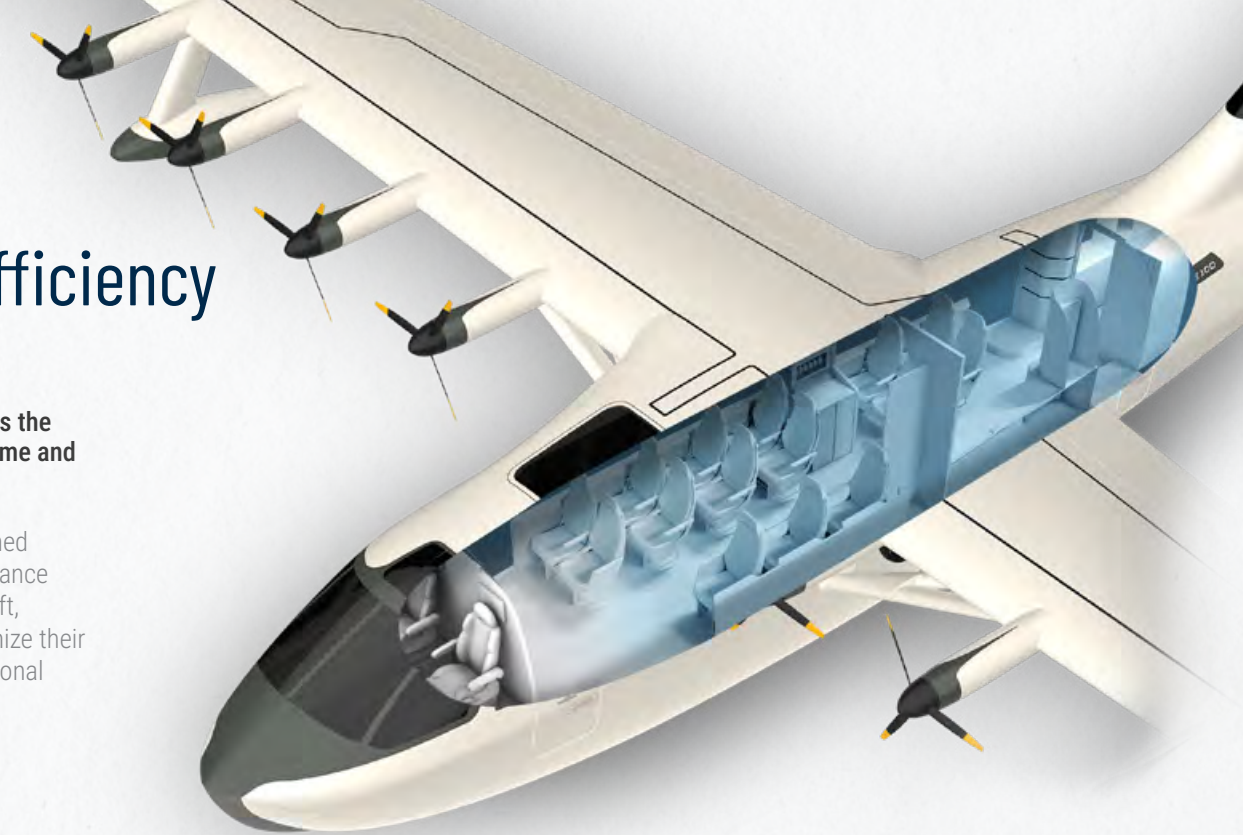
This unparalleled environmental performance positions JEKTA as a trailblazer in sustainable aviation revolution.



## Operational Efficiency

**With seating capacity of 12-19 passengers, the PHA-ZE 100 offers the perfect balance of passenger volume and per seat economics**

Its advanced avionics and unmatched operational capabilities further enhance the cost-effectiveness of our aircraft, ensuring our customers can maximize their profitability while delivering exceptional service to their communities



# PHA-ZE 100 revolutionizes RAM due to its operational features:

- Water** The PHA-ZE 100 is designed to operate in aquatic environments
- Unpaved** Optimizing legacy infrastructure
- Paved** Maximizing paved airstrips

## Water based operations

Effortlessly operates between airstrips and waterways without additional hardware or preparation giving immediate deployment

Streamlined operations enables diverse applications, improving efficiencies, and adds value by supporting a diverse set of missions



## Land Based: Unpaved

**Airframe design ensures dependable performance from unpaved / rough airstrips incl savannah terrain. This adds fleet value to an operator looking to maximize its operational flying hours**

Unmatched flexibility to fulfil myriad of missions requiring versatility, safety and operational security. Ability to operate in rugged & remote locations support SAR/ medevac, experiential tourism etc.



## Land Based: Paved

**Operates from existing airports, small and large. Its Short Take Off and Landing, STOL, feature allows for flexible performance from rural airfields, small regional & large international airports**

Improved accessibility for more passengers and increases operating revenues

Minimum runway length of only 800m





Introducing the PHA-ZE 100  
FEATURES



**Amphibious aircraft**  
ocean-class, unique design



**MOW** 8618 kg



**13.700 m (45.000 ft)**  
technical flight altitude



**up to 130 knots**  
cruising speed

**500 km**  
Range



**400m**  
Take-off distance



**up to 1,2m maximum**  
wave height



**800m**  
Runway length



**electric power plants**  
with a total capacity of  
**1,600 kwh** peak power

**HT-PEM**  
Hydrogen  
Fuel cell

**100%**  
composite  
materials



**IFR Capable**  
Flying with  
Zero visibility

**designed to carry**  
**19 passengers**

**cargo weight up to**  
**2 1/2 metric tons**

**Flexible interior**  
configurations

## PHA-ZE 100 FEATURES

### Distributed Electric Propulsion

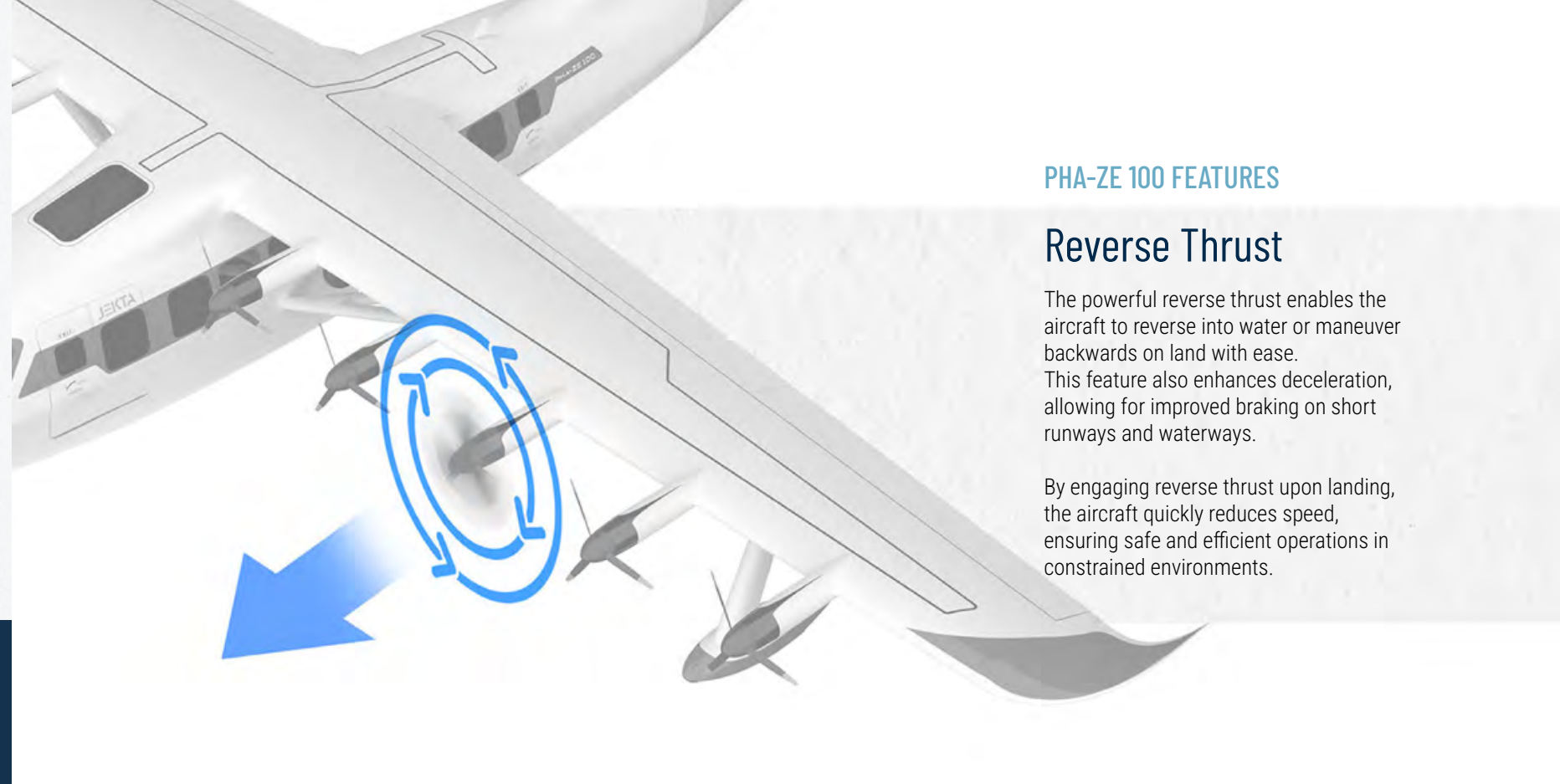


Our aircraft is equipped with distributed electric propulsion, which enhances safety and ensures the ability to continue flight even if two engines are inoperative



Design Patent:  
146462 registered

This design provides redundancy and reliability, significantly improving overall flight safety and performance

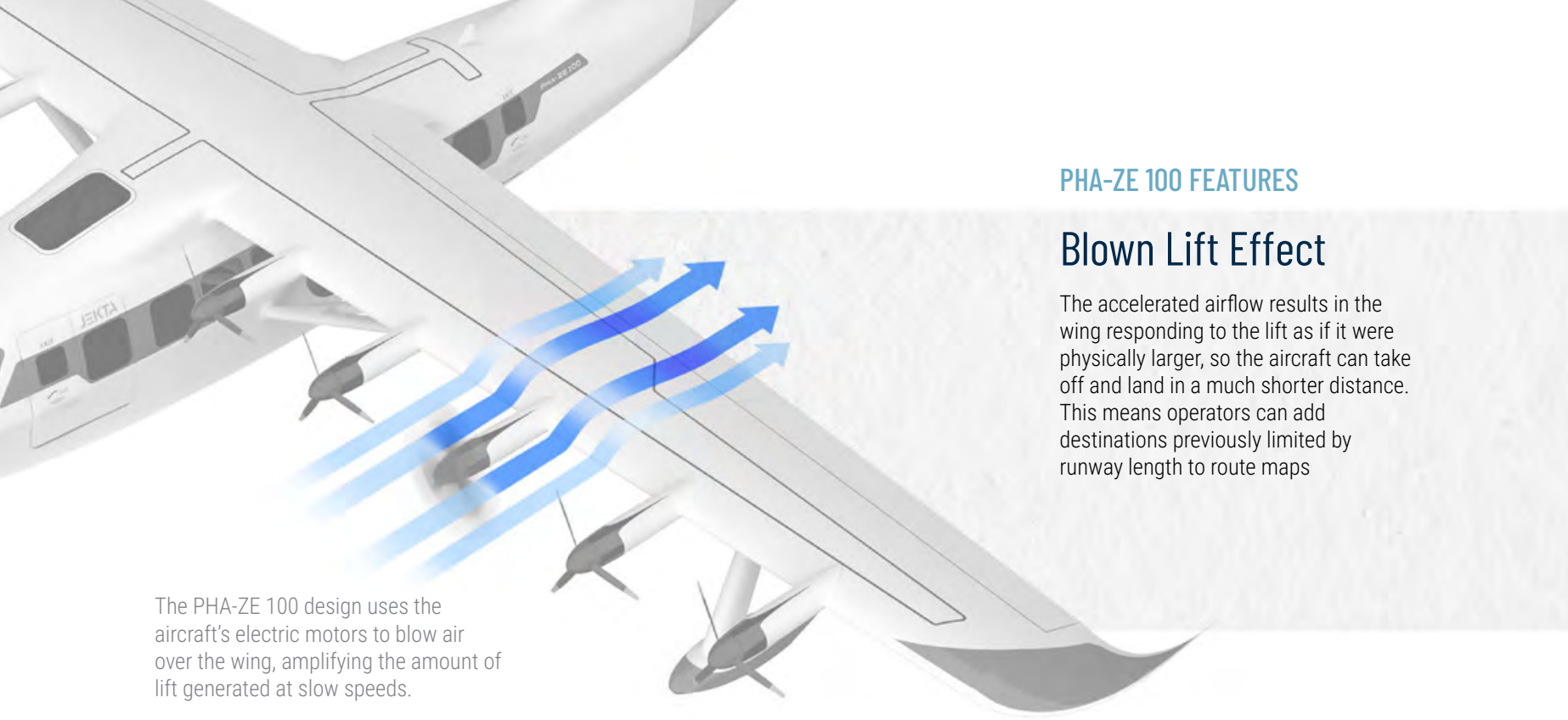


## PHA-ZE 100 FEATURES

### Reverse Thrust

The powerful reverse thrust enables the aircraft to reverse into water or maneuver backwards on land with ease. This feature also enhances deceleration, allowing for improved braking on short runways and waterways.

By engaging reverse thrust upon landing, the aircraft quickly reduces speed, ensuring safe and efficient operations in constrained environments.

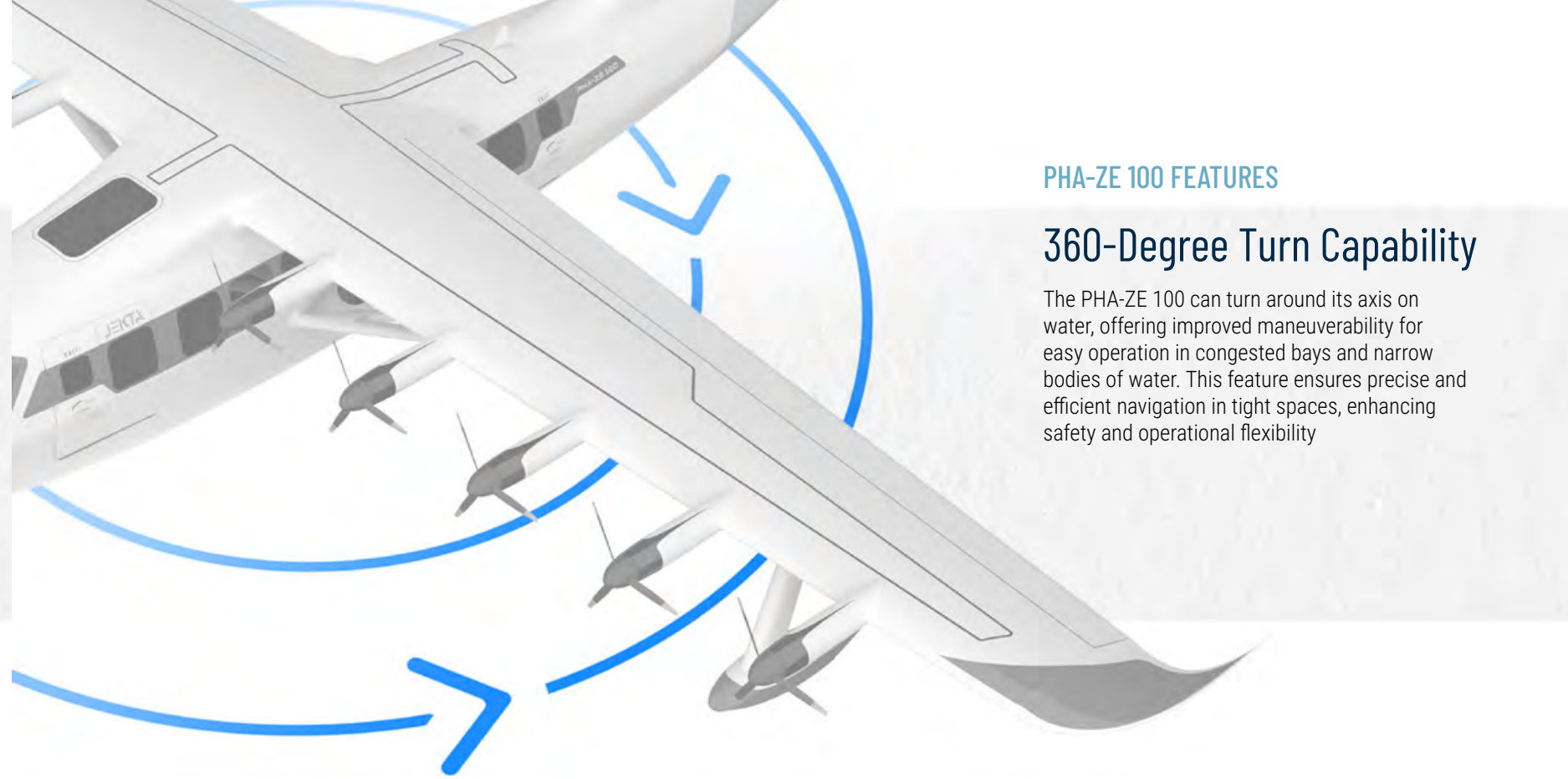


The PHA-ZE 100 design uses the aircraft's electric motors to blow air over the wing, amplifying the amount of lift generated at slow speeds.

## PHA-ZE 100 FEATURES

### Blown Lift Effect

The accelerated airflow results in the wing responding to the lift as if it were physically larger, so the aircraft can take off and land in a much shorter distance. This means operators can add destinations previously limited by runway length to route maps



## PHA-ZE 100 FEATURES

### 360-Degree Turn Capability

The PHA-ZE 100 can turn around its axis on water, offering improved maneuverability for easy operation in congested bays and narrow bodies of water. This feature ensures precise and efficient navigation in tight spaces, enhancing safety and operational flexibility

## PHA-ZE 100 FEATURES

### Digital Camera System



Equipped with cameras, visibility is significantly improved all around the aircraft. This feature provides pilots with a clear view of the surroundings, aiding in safer maneuvering and enhancing overall situational awareness

## PHA-ZE 100

### Configurations / Range of Applications:

- Regional transportation
- Executive / VIP
- Cargo support
- Eco-tourism
- First and last-mile connectivity
- Sports tourism
- Search and rescue / medevac
- Disaster relief
- Border patrol / fishing support



## PHA-ZE 100 CABIN FEATURES

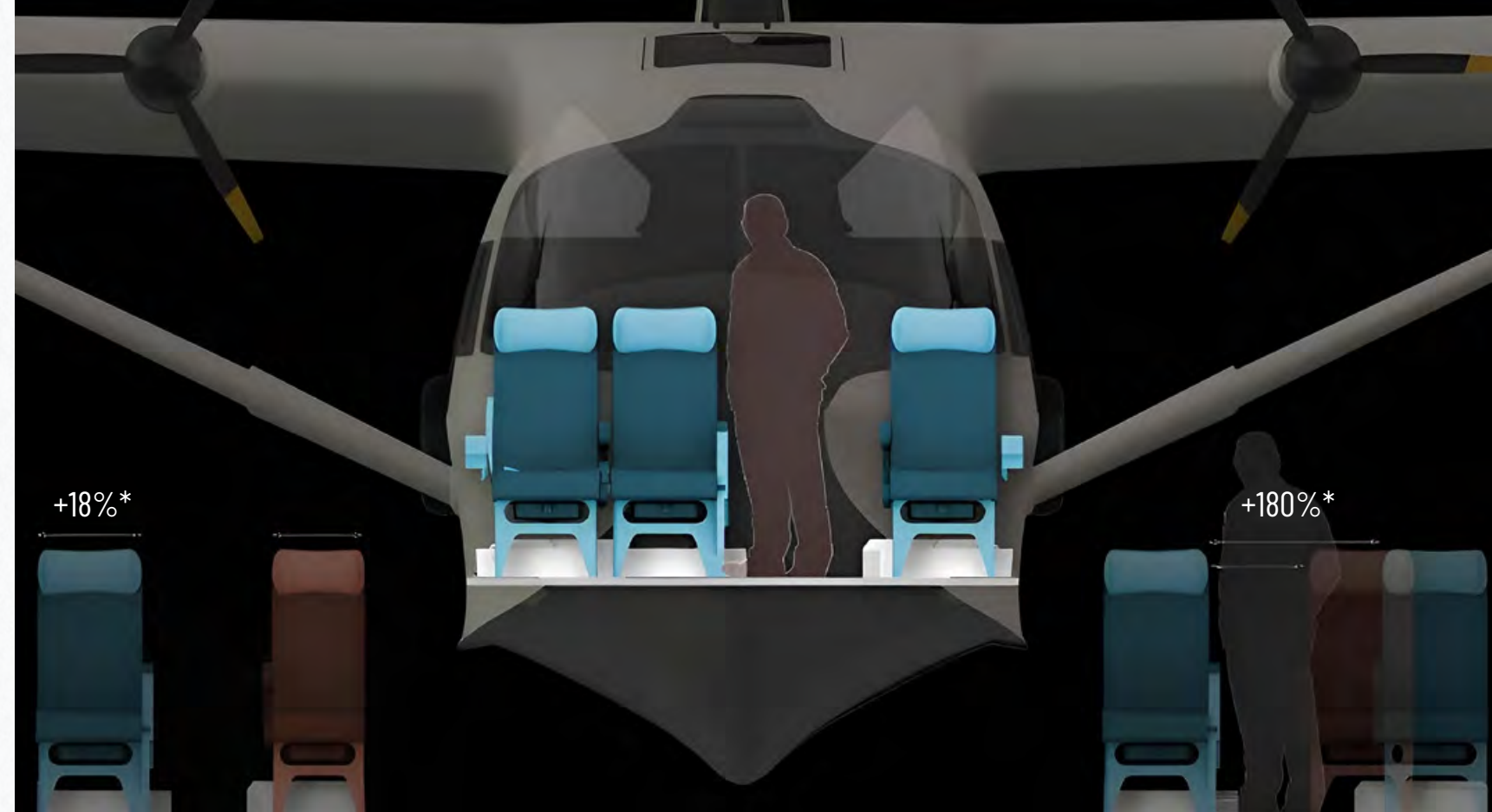
### Stand-up large Passenger Cabin

The stand-up spacious passenger cabin provides an airy, light feel with a capacious design that pushes the boundaries of cabin interior form and function

The design considers human ergonomics and passenger and crew interaction to define a new way of experiencing flight. The exceptional cabin delivers comfort and relaxation and inspires a **feeling of freedom**

### Our Economy Class

\*compared with the same class on a Boeing 777



## PHA-ZE 100 FEATURES

### Panoramic Side Windows

Natural light pours through panoramic side windows, offering passengers expansive vistas during flight

The immersive experience elevates the enjoyment of the journey by allowing passengers to embrace the beauty of the outside from the safety of the inside

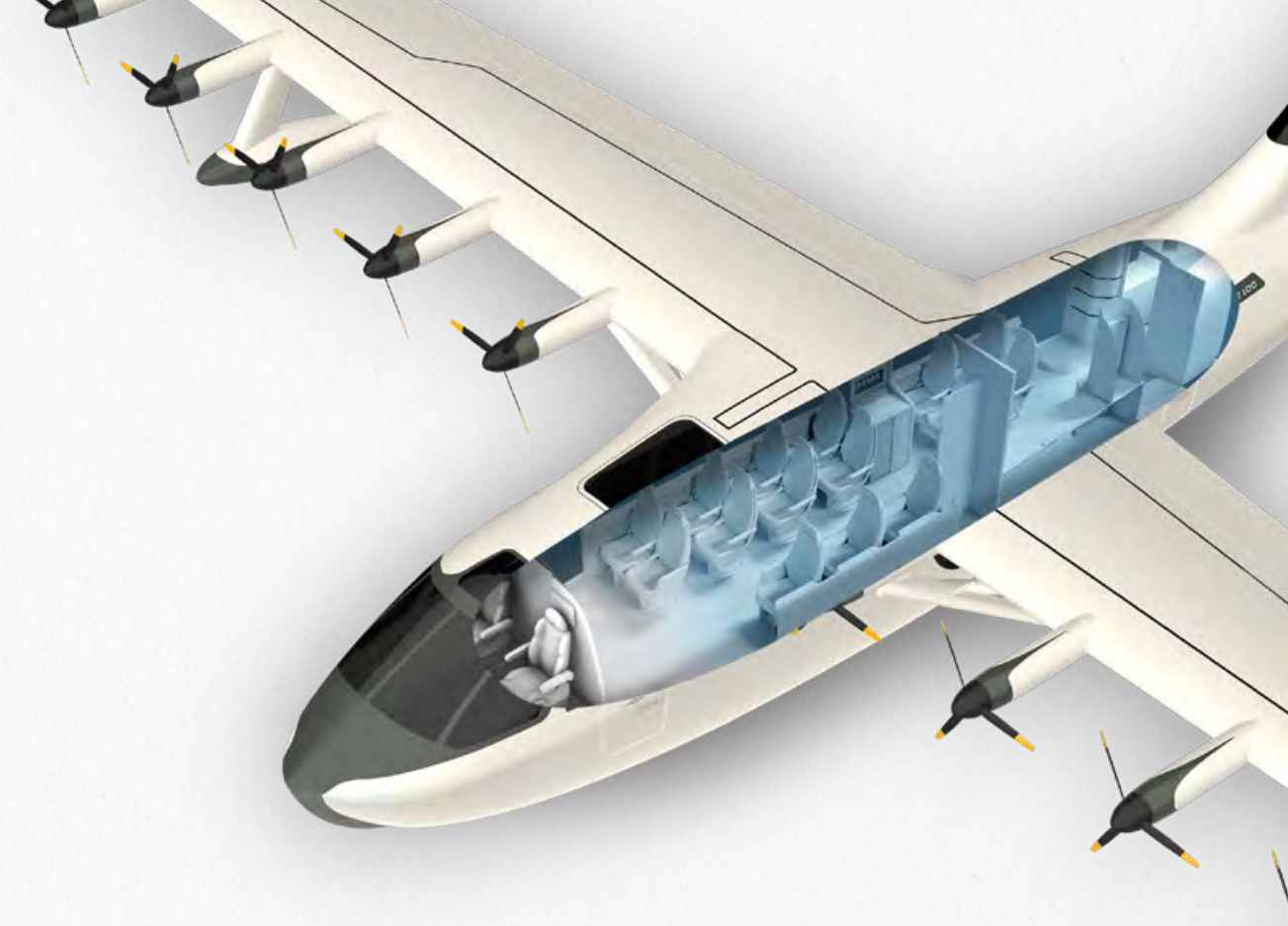


## INTERIOR CONFIGURATIONS

### Traveller

Total Seats	20
Economy seats	19
Premium seats	–
Folding seats	1

Bathroom







## INTERIOR CONFIGURATIONS

# Voyager

Unique sea/land operations for the General Aviation market

Serves HNW and VIP network globally

Product/service integration into the high-end luxury resort market



Design by MBVision



☰ PHA-ZE 100 ☺

Design by MBVision

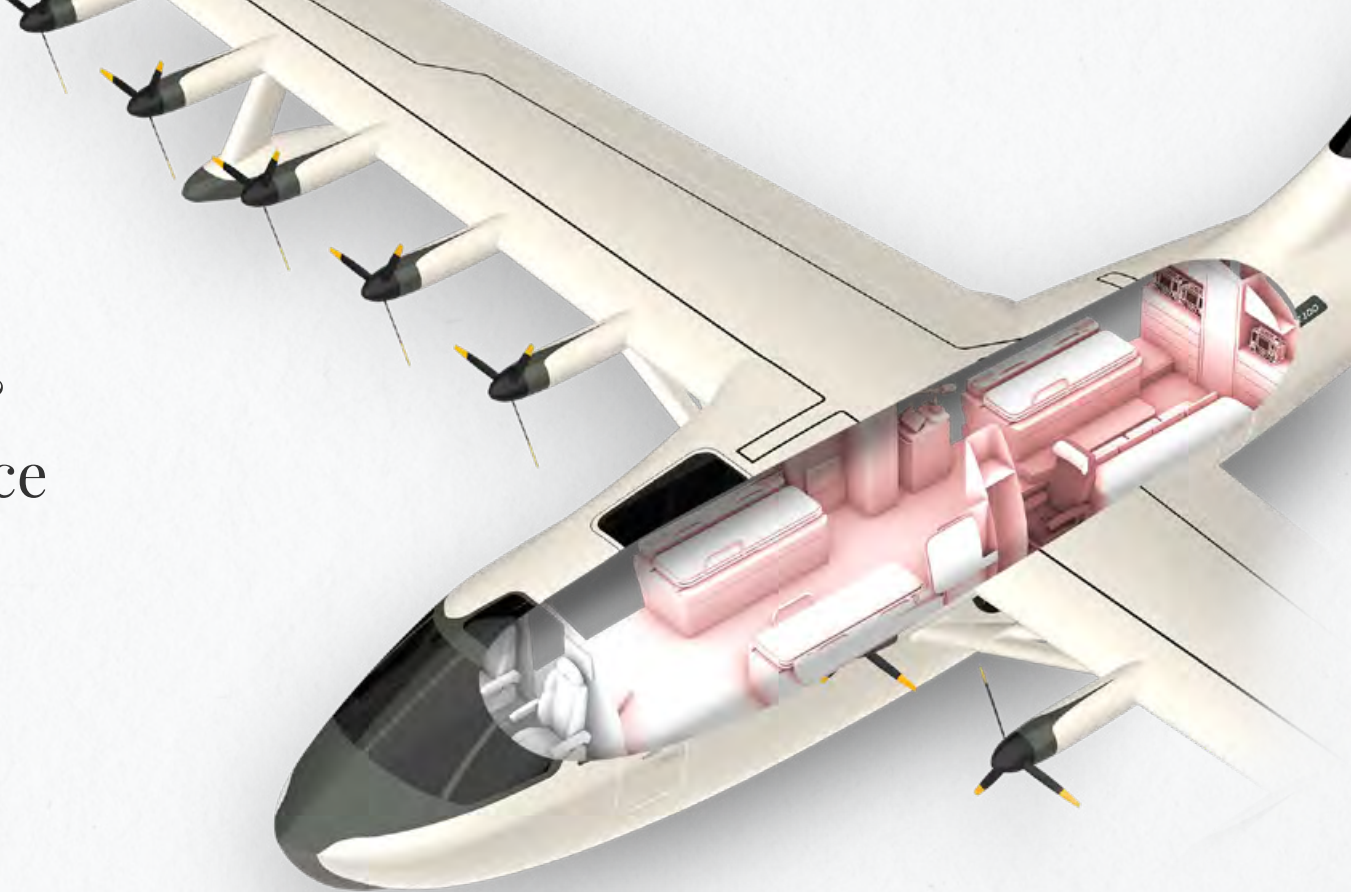


☰ PHA-ZE 100 ☺

INTERIOR CONFIGURATIONS

# Medi VAC & AIR Ambulance

Total Seats	8
Economy seats	1
Premium seats	-
Folding seats	7
Stretchers	3



## Medical equipment kit and medicines, devices for clinical analysis (Suction Aspiration, Defibrillator, Portable Suction Unit, monitor, ecc)

First Aid Kit and tools

Oxygen bottles

Medical team seats

FAA certified Stretchers with Security system belt

Spin board (Scoop Stretcher)

Vacuum mattress

Additional generator for medical equipment

Searchlights, ext. speakers, sonobuoys

(DF Direction Finder)  
FLIR (Forward Looking Infrared)

Special lighting

Air conditioning  
Tinted glass

Winch

Grab handles

## MEDICAL EQUIPMENT



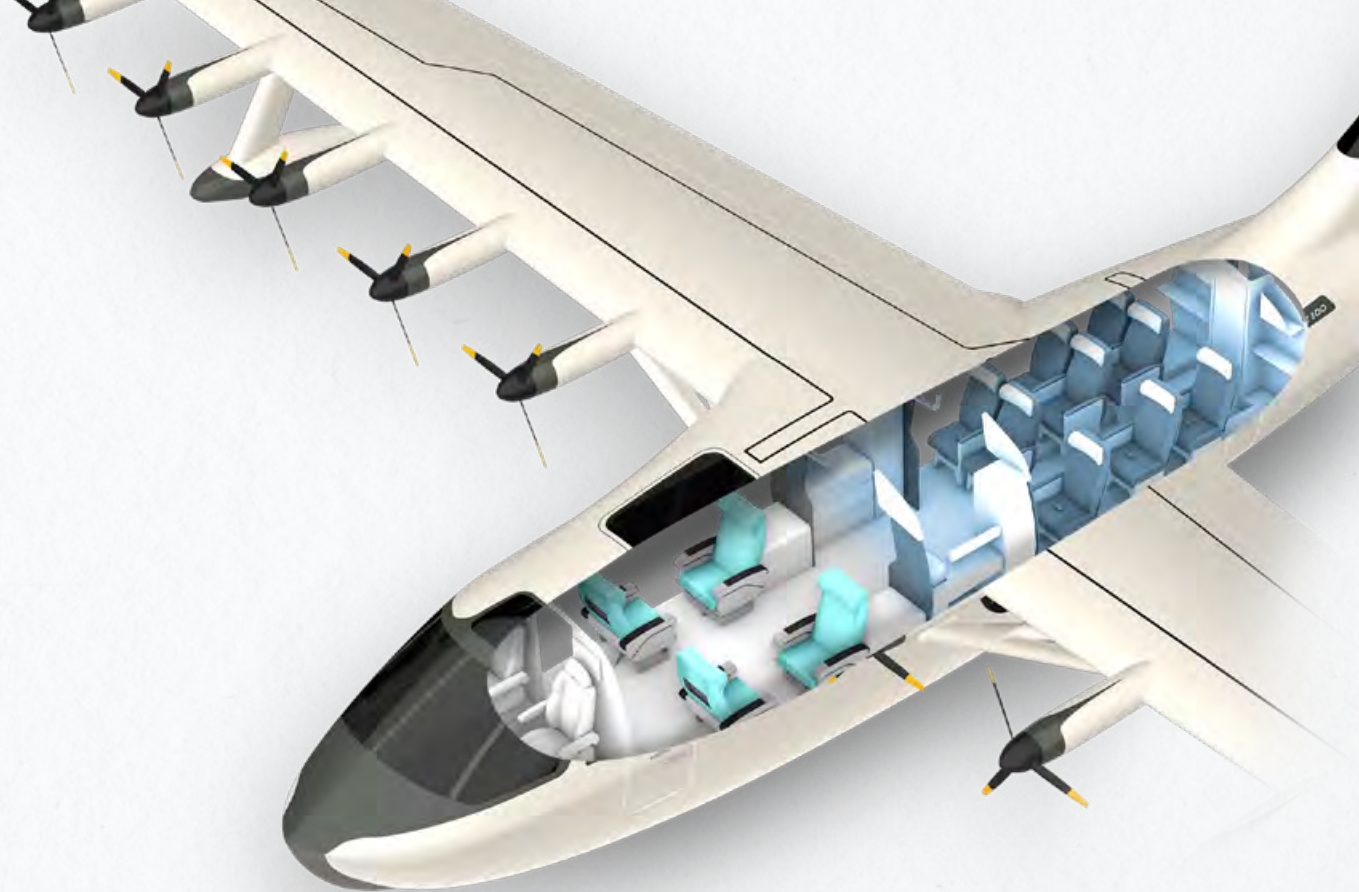
## MULTI SURFACE OPERATION



INTERIOR CONFIGURATIONS

## Executive

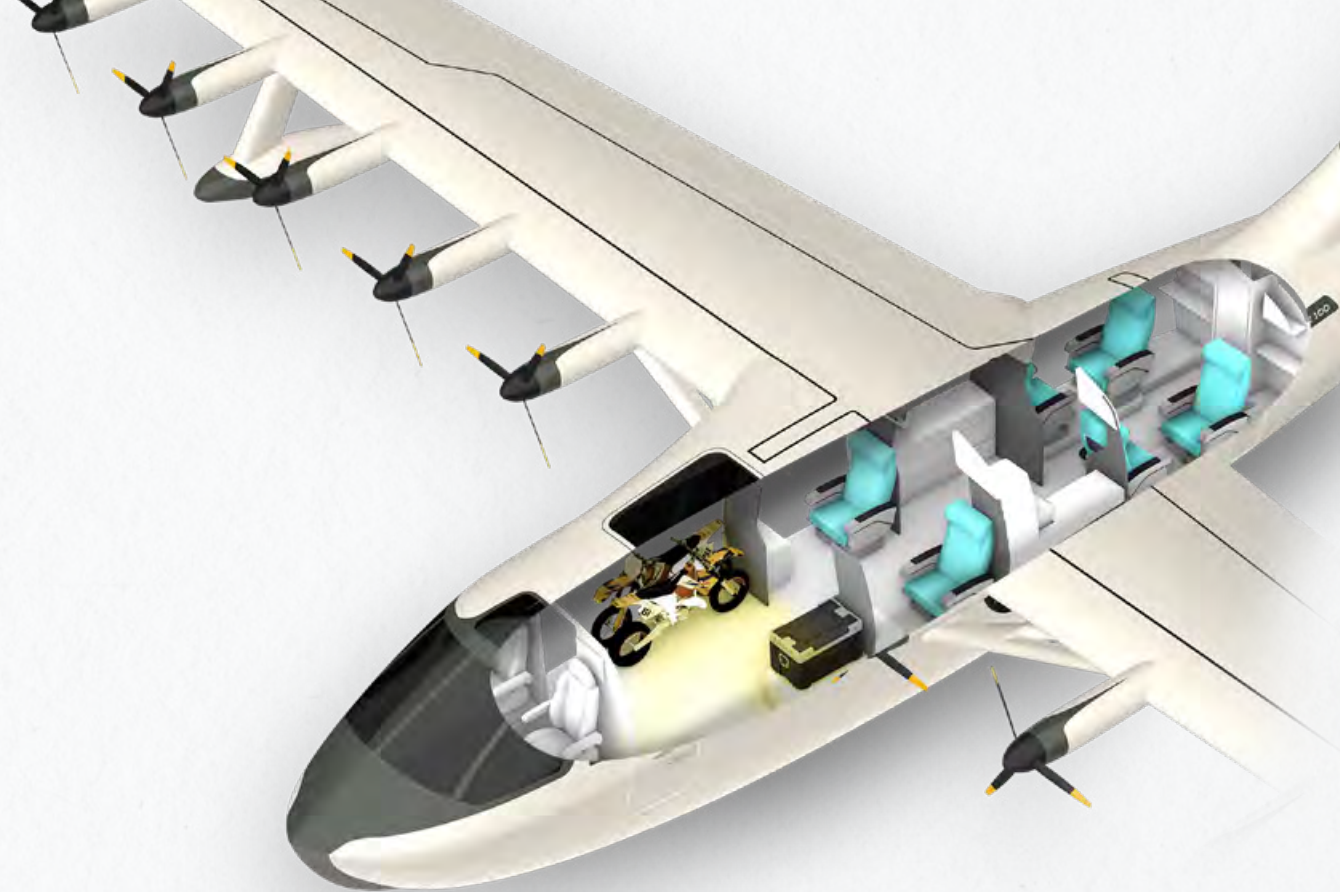
Total Seats	14
Economy seats	9
Premium seats	4
Folding seats	1



INTERIOR CONFIGURATIONS

## Voyager combo

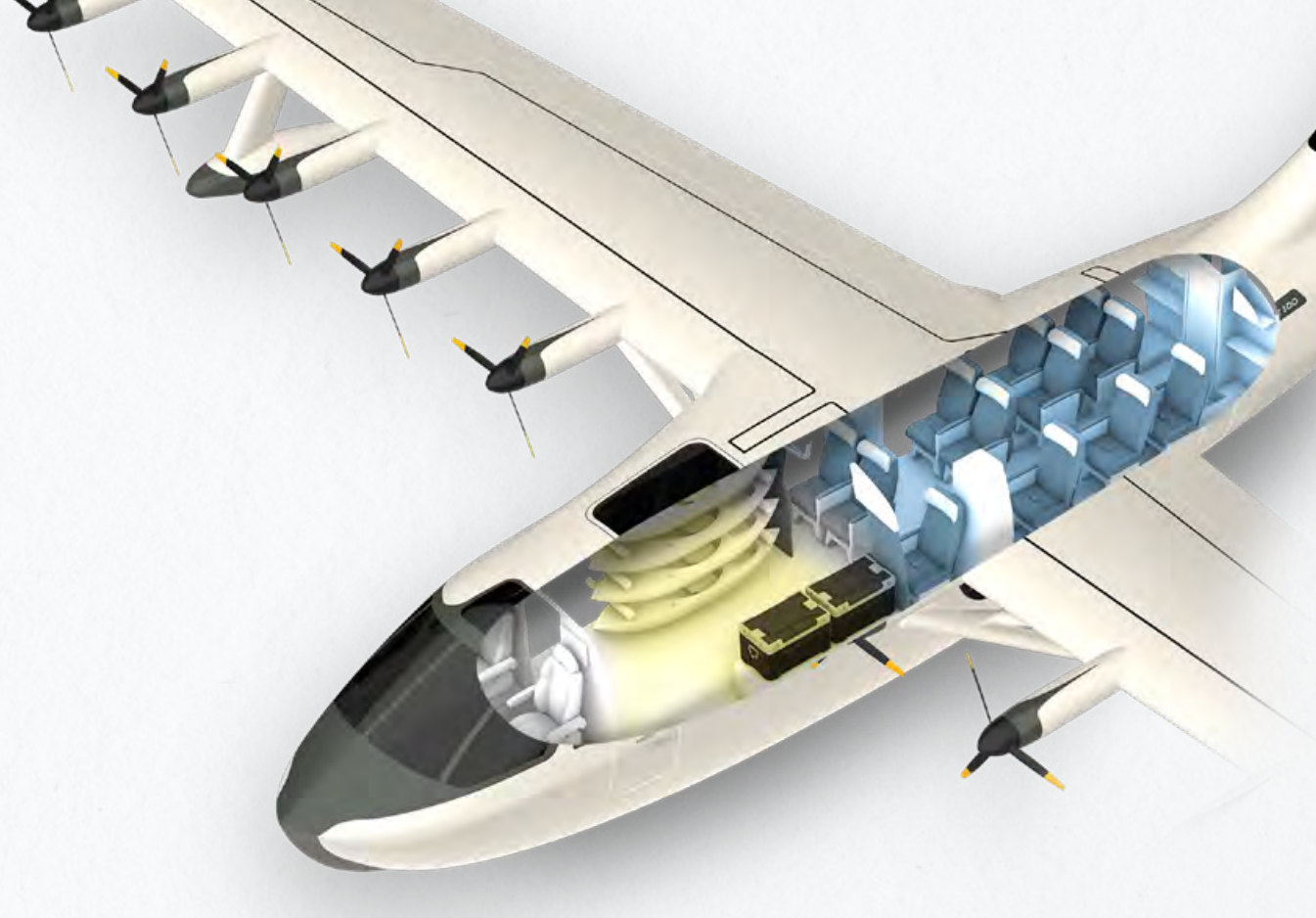
Total Seats	6
Economy seats	–
Premium seats	6
Folding seats	1



INTERIOR CONFIGURATIONS

# Traveller combo

Total Seats	13
Economy seats	12
Premium seats	-
Folding seats	1





ENTER THE  
FUTURE

# Sustainability & Impact Contribution



Future tech assets that support net-zero solutions



Company philosophy and operational design that has impact at every step



Support infrastructure to amphibians provides for responsible airport/seaport expansion



Operators are empowered to serve their markets with the lowest environmental footprint



Suppliers, components and production facilities that are world-class efficient



**Building sustainable / impactful products and a company that attests to the highest standards of environmental, societal and industry-changing impact ensures we attract global capital and investors that align with our values**

Sustainability sourced / low-environmental impact resources and components to build our product;

High-tech production processes that save energy, material resources and produce minimized waste

Future-proof design with clear end-of-life recyclability, supporting the circular economy;

Selected Supply Chain partners with similar net-zero strategies;

Products for operators that reduce environmental & ESG impact;

After-sales maintenance & support that have low-impact design inherent;

Cargo/medical supplies/evac services to water-accessible remote areas

Re-thinking infrastructure: No to low-build infrastructure with limited airport/seaport support. New-route development with the least amount of emissions, noise and environmental footprint in the amphibian market;

## Business case for Amphibious aircraft



Almost zero environmental impact from travel



Minimal support infrastructure required



No need for expensive airport developments /  
access to remote areas



Creates new revenue models for marinas and  
hotel groups etc (new tourism markets)



Diversified / versatile operational missions  
and use cases



Amphibious aircraft access the best of both  
worlds (water and land)



Creates new routes and networks  
for Operators





Jekta Switzerland SA  
Aeropole 132  
1530 Payerne, Switzerland

[INFO@JEKTA.SWISS](mailto:INFO@JEKTA.SWISS)

[WWW.JEKTA.SWISS](http://WWW.JEKTA.SWISS)



Jekta Switzerland SA  
Aeropole, 132  
1530 Payerne, Switzerland  
**INFO@JEKTA.SWISS**

WWW.JEKTA.SWISS

jektaswissaviation



jekta\_aviation

