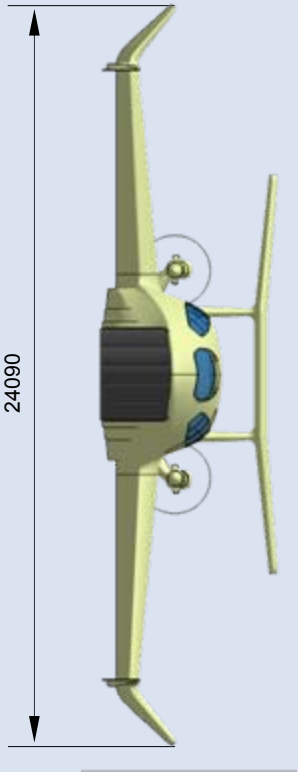
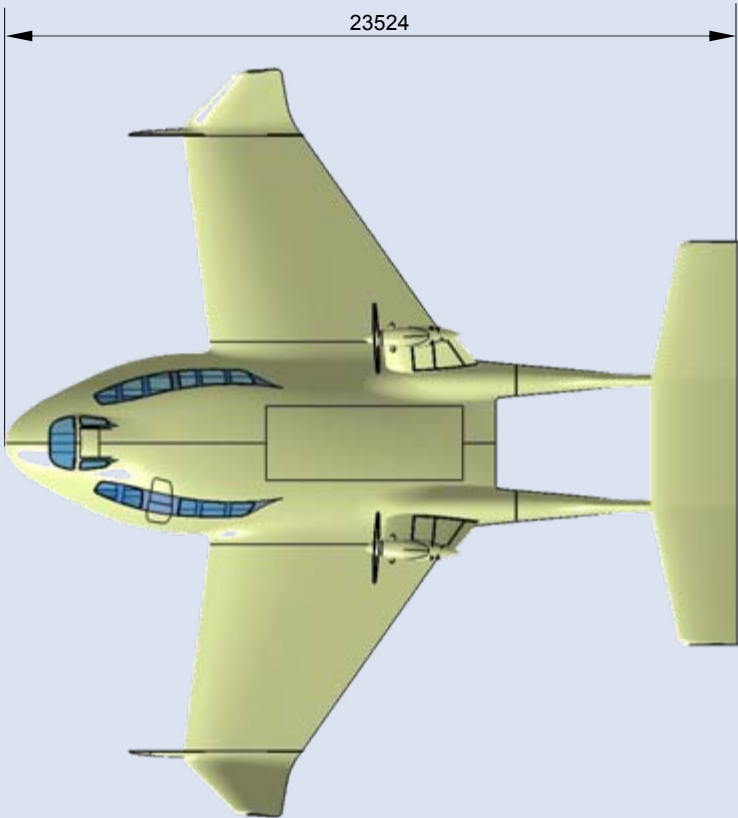
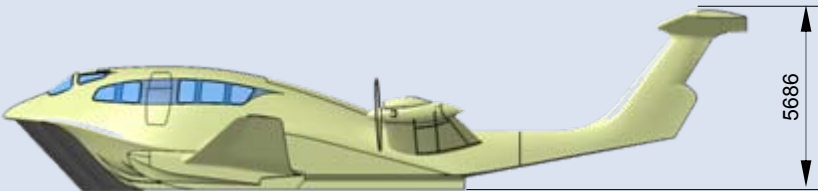


Hoverwing HW-20



Wing in ground effect craft

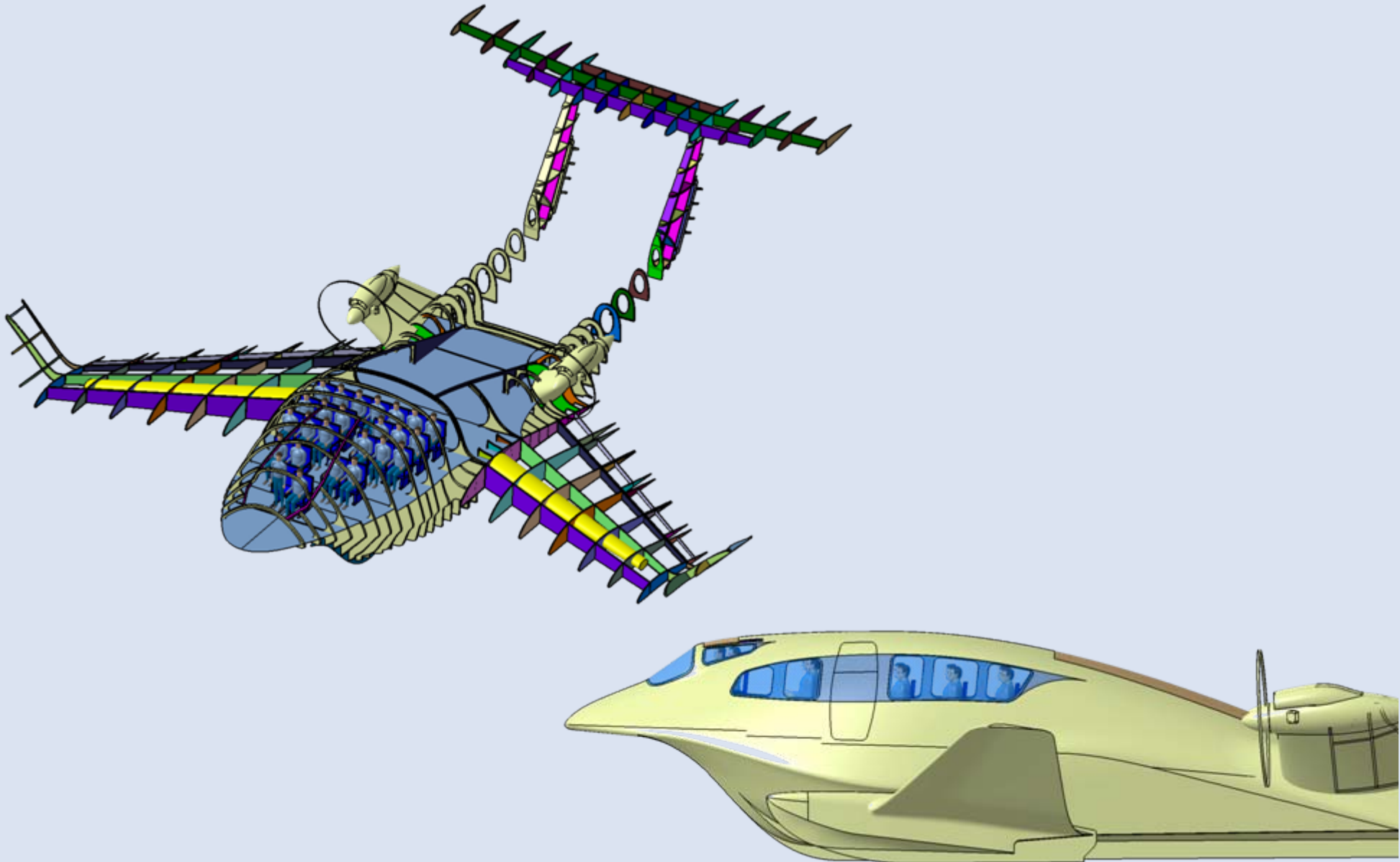
Technical data



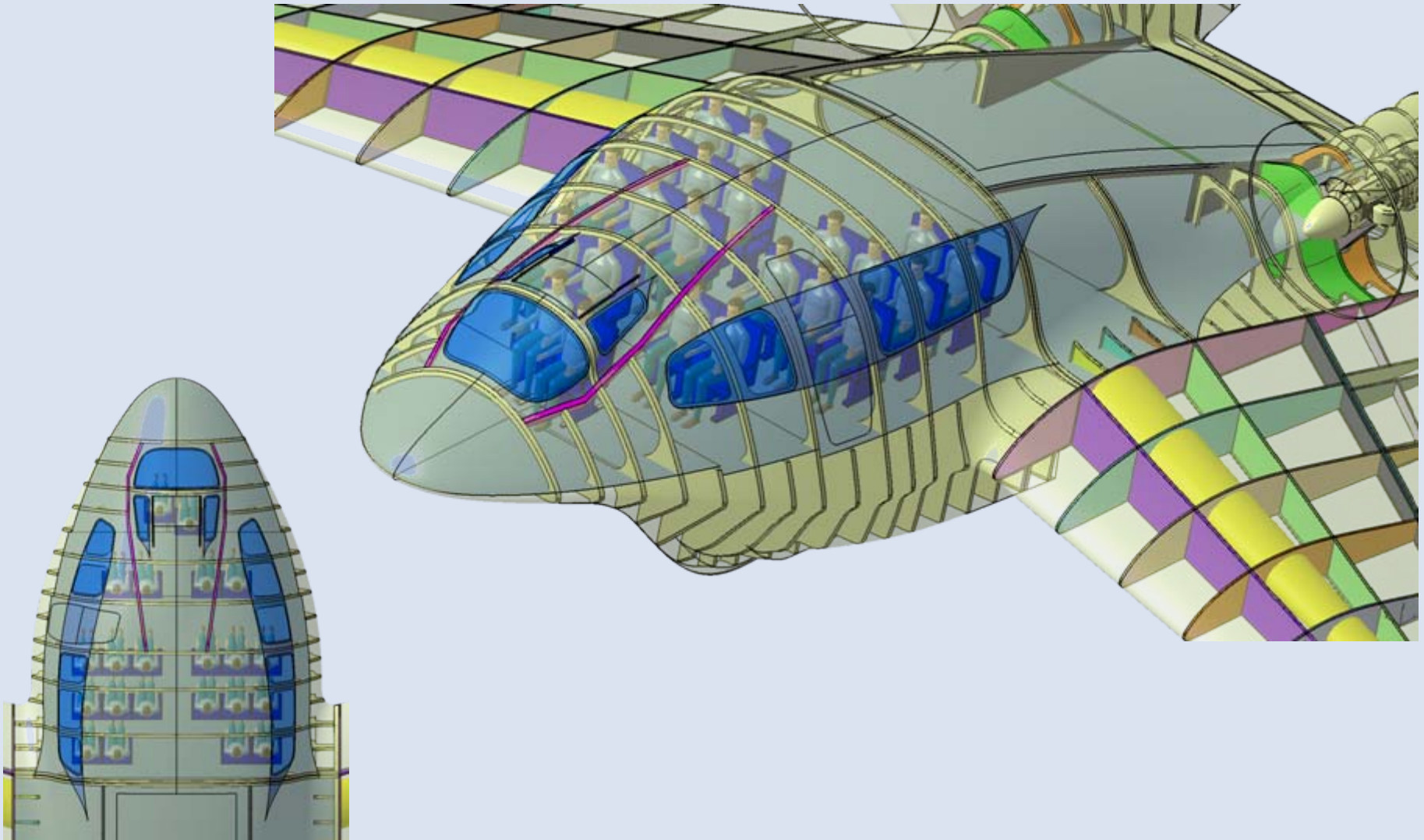
Specifications & Performance

Engine Power	2x 750 HP
Maximum Cruise Speed	190 km/h
MaximumTake Off Run Distance	700 m
Maximum Landing Distance	500 m
Maximum Take Off Weight (MTOW)	9500 kg
Overweight Maximum Take Off Weight (MTOW)	10000 kg
Operational Empty Weight (OEW) - 20 PAX	6466 kg
Operational Empty Weight (OEW) - 23 PAX	6504 kg
Operational Empty Weight (OEW) - Cargo	6182 kg
Operational Empty Weight (OEW) - Patrol	6390 kg
Maximum Fuel Weight	2400 kg
Wingspan (without winglets)	19810 mm

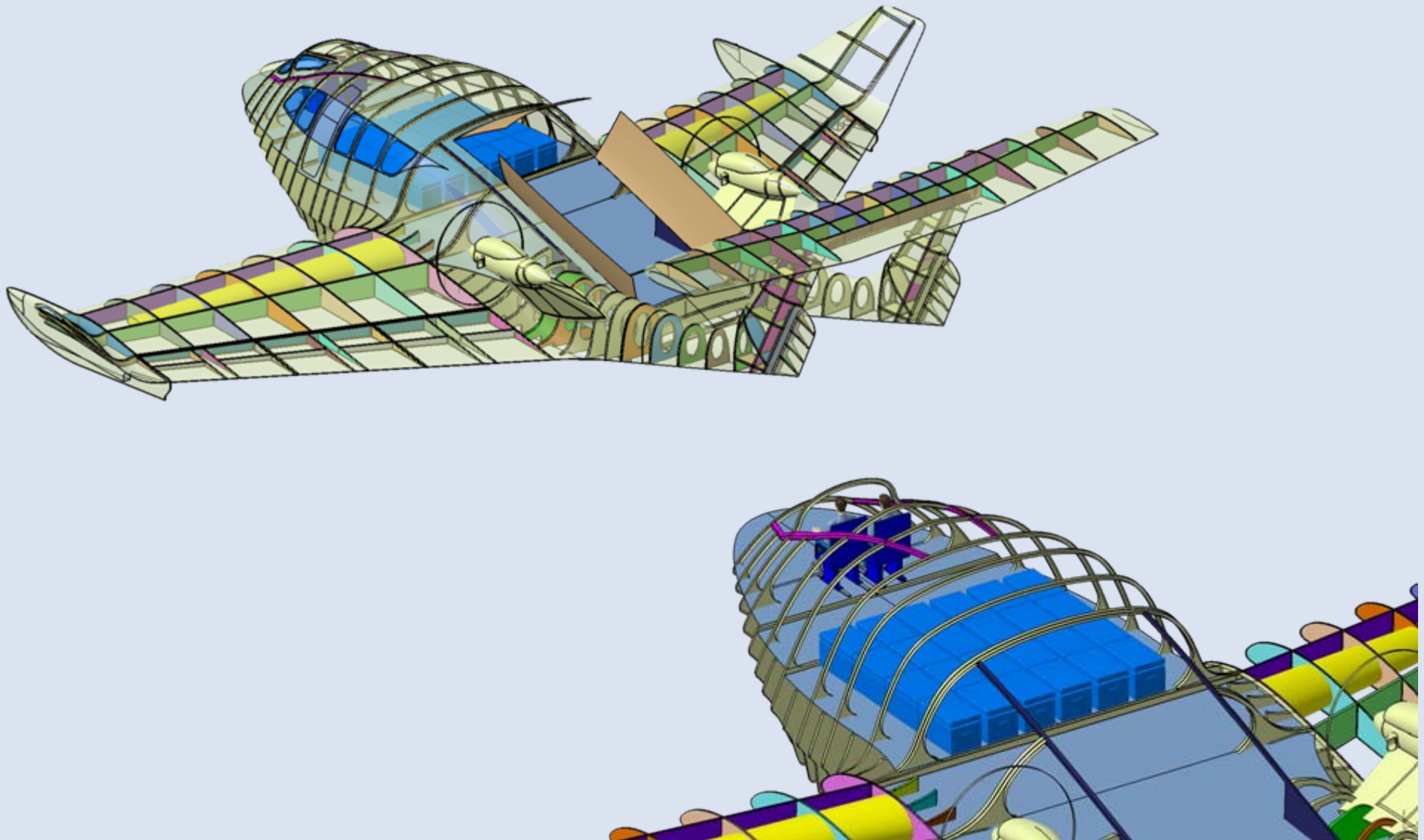
Cabin arrangement 1: Civil version for the transport of 23 passengers



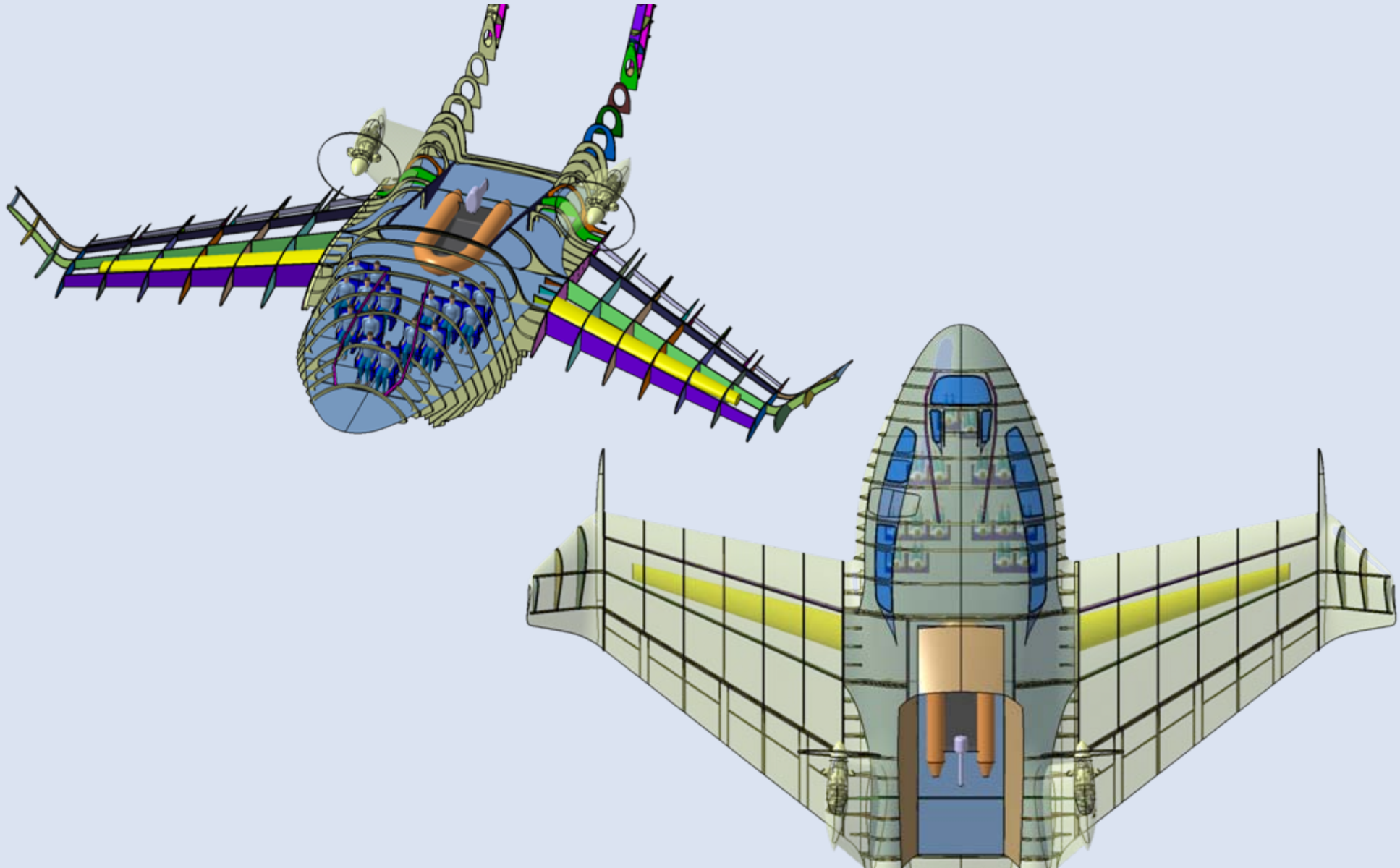
Cabin arrangement 2: Civil version for the transport of 20 passengers



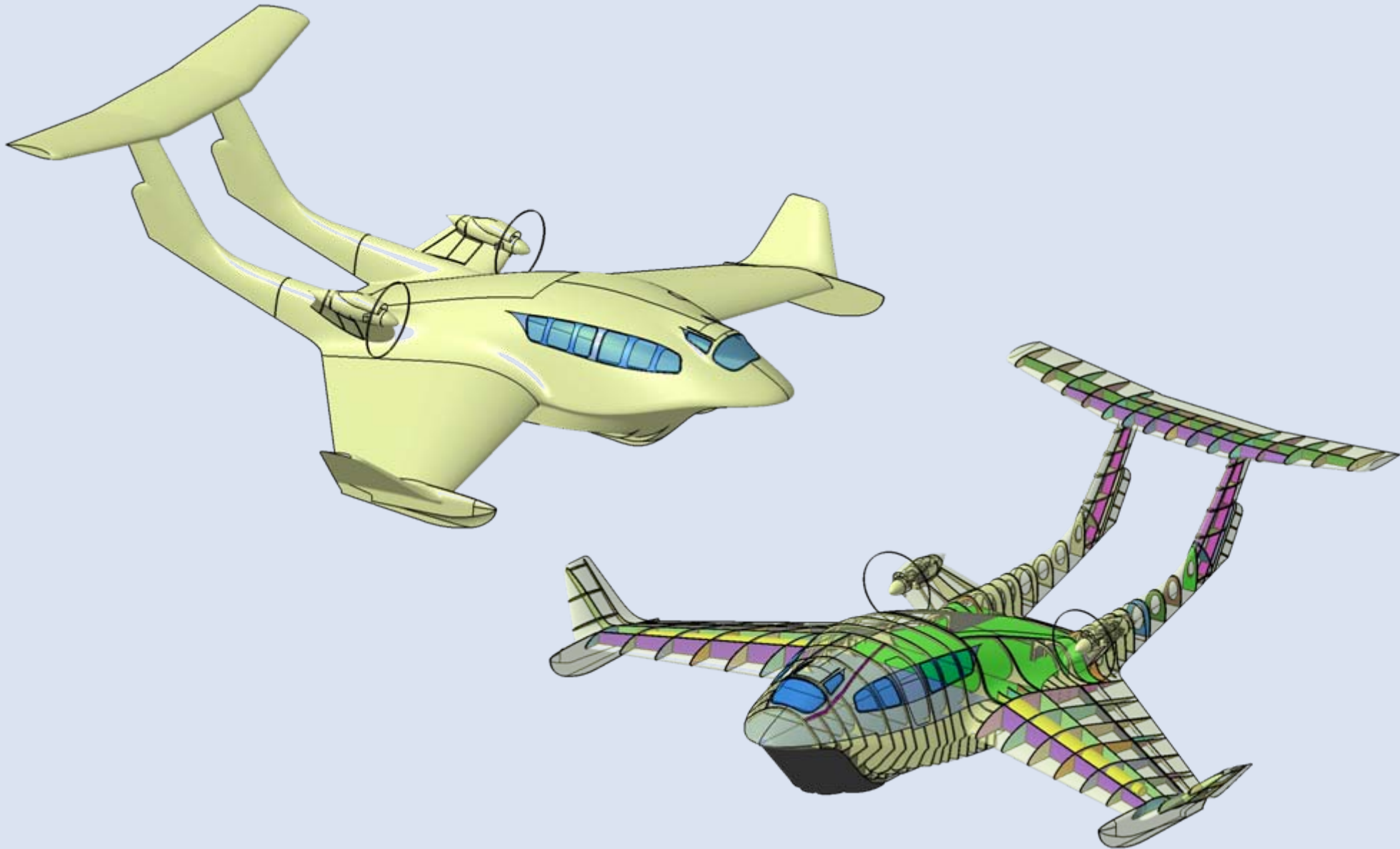
Cabin arrangement 3: Civil version for cargo transport



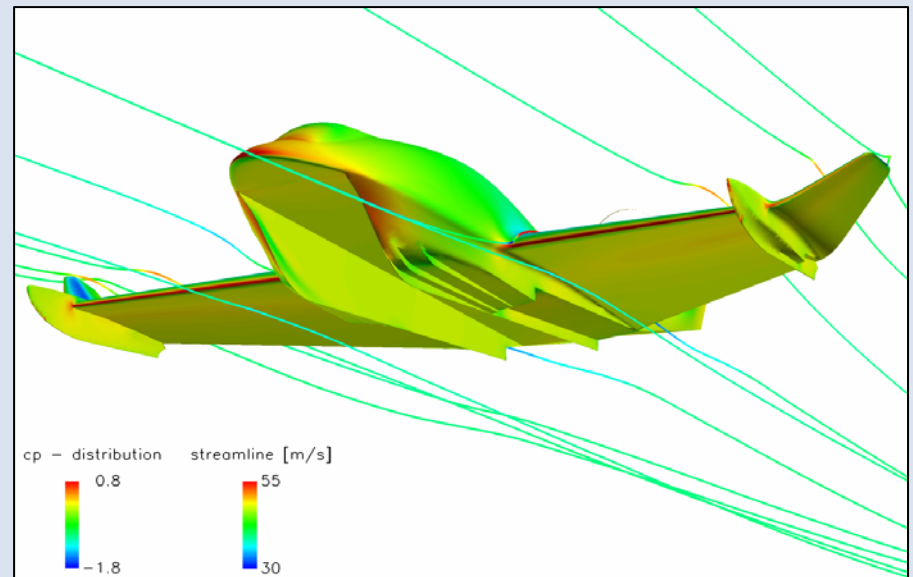
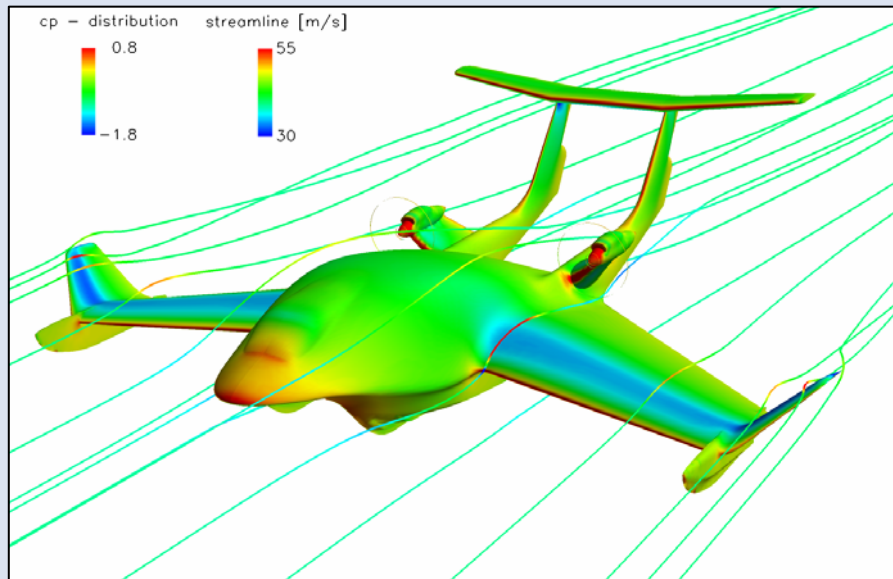
Cabin arrangement 4: Military version — Maritime patrol



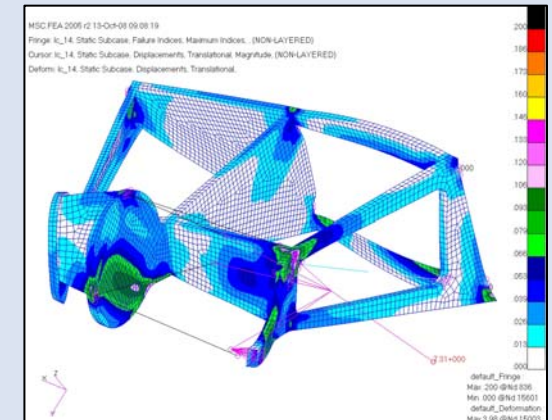
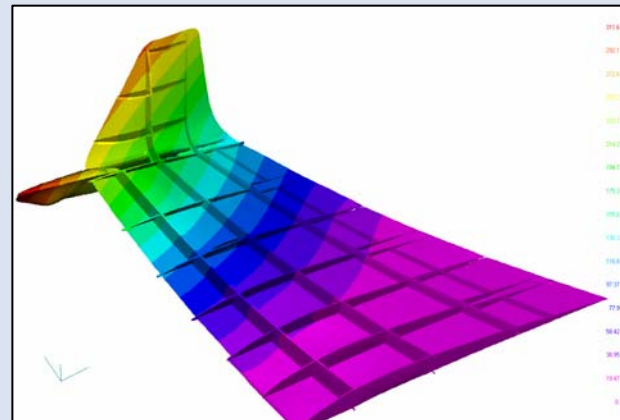
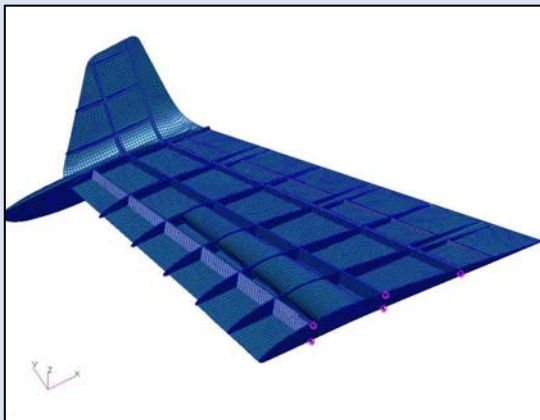
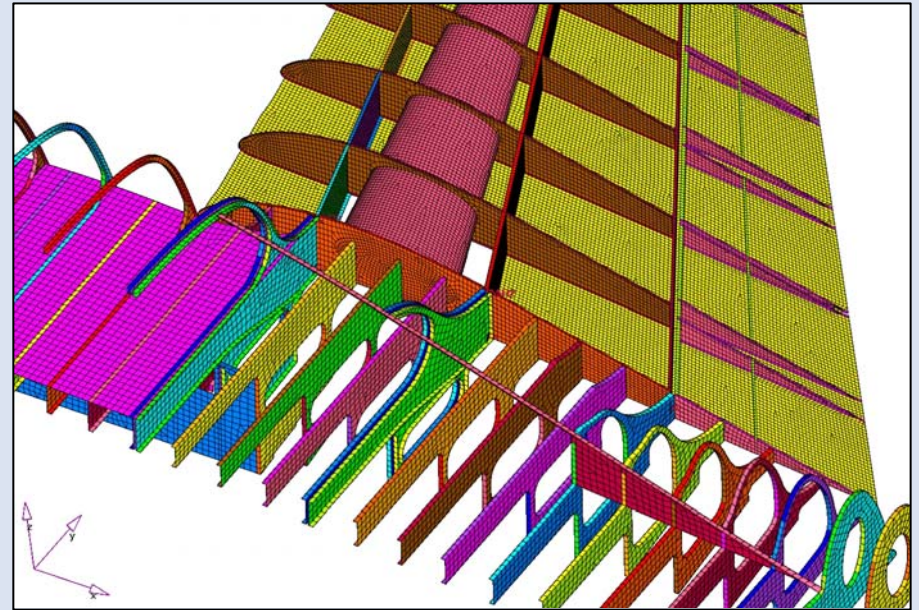
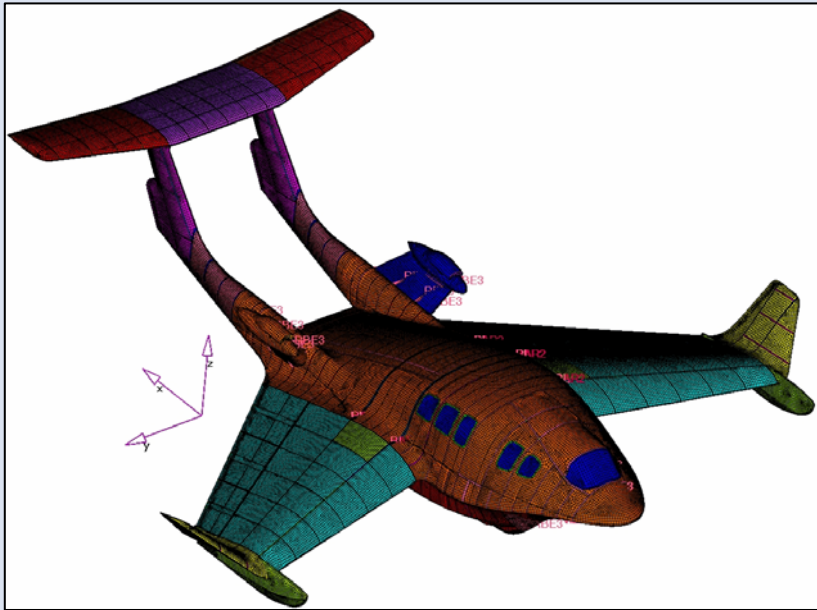
CAD-Design with CATIA V5



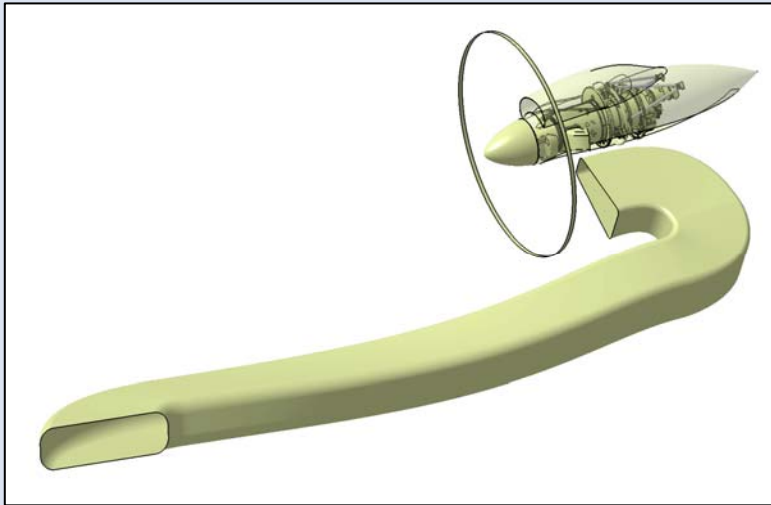
CFD-Analysis with Fluent



Finite Elements - Analysis with Nastran



Powerplant

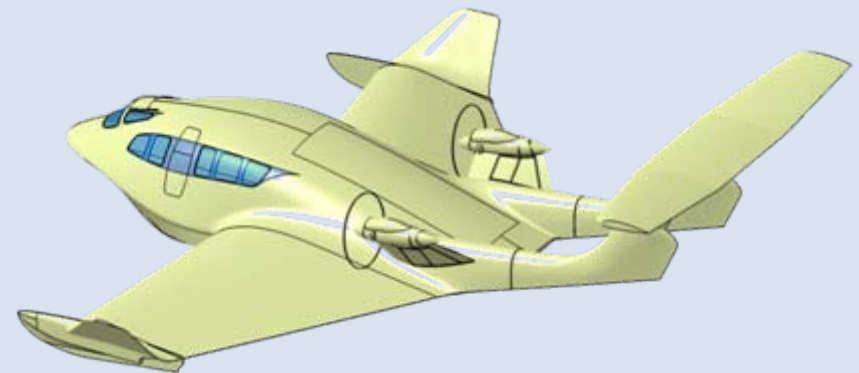
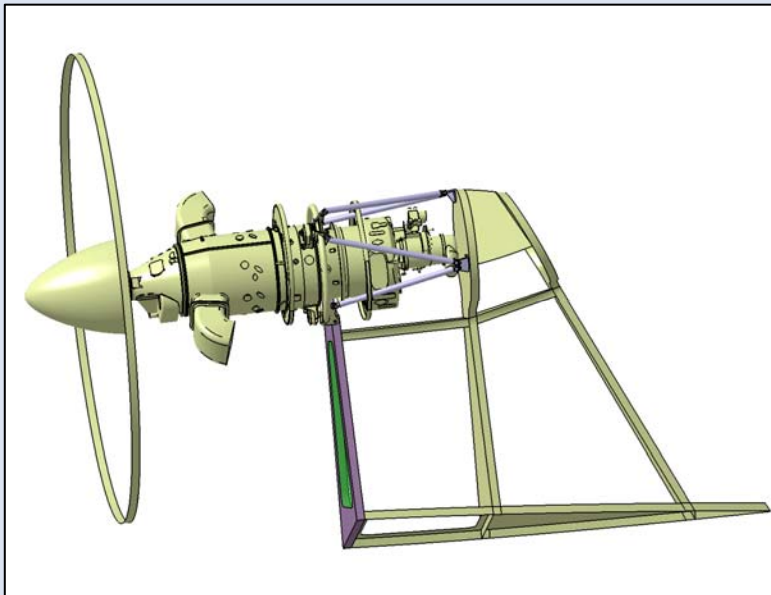


2x General Electric – Walter M601H-80 turboprop engines rated at 750 ESHP each

2x Mühlbauer MTV-27-1-E-C-F-R(W) / CFR230 5-blade composite propeller (Ø 2300mm)

Pall Aerospace Seawater filtering system

Static airchannel for creating the aircushion

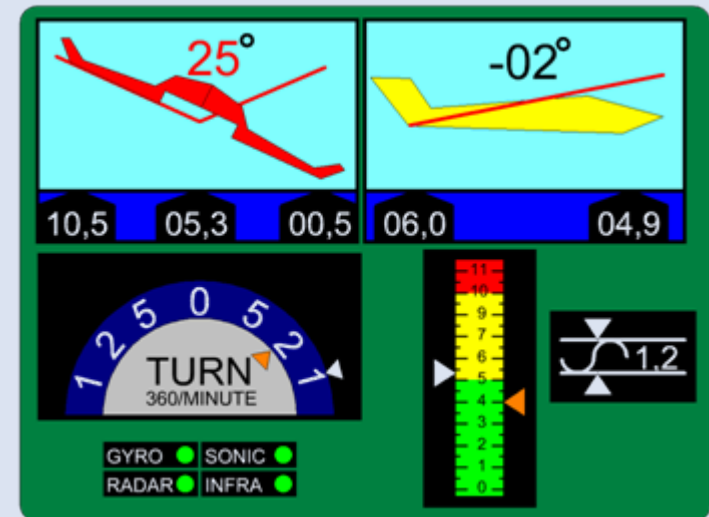
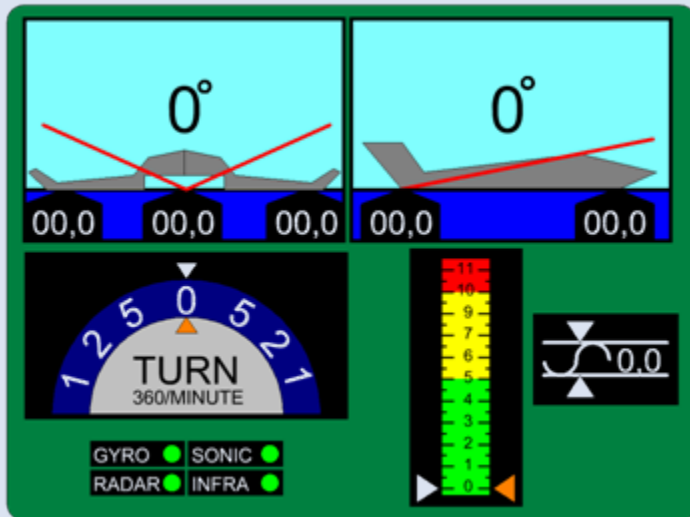


Controls

Direct Height Control (DHC) system :

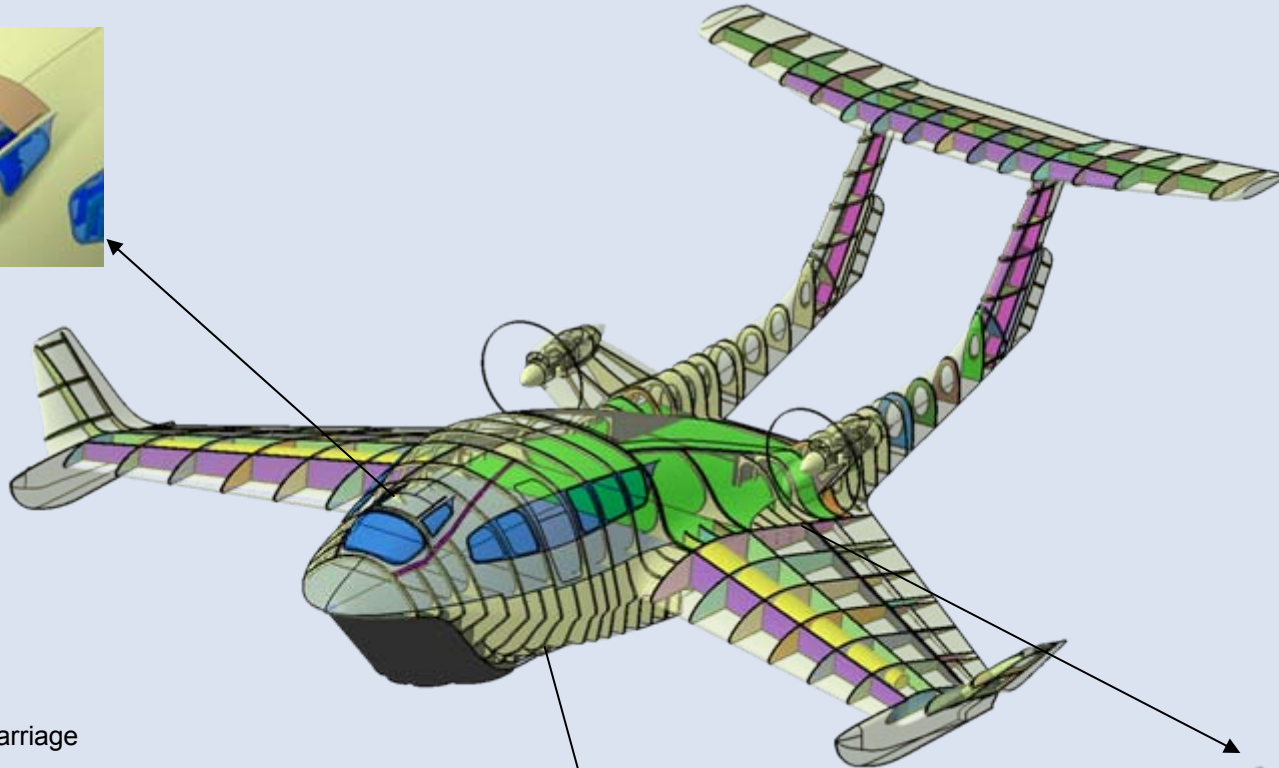
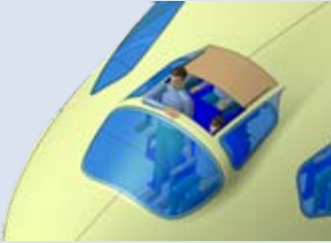
with radar height sensors and gyroscopic stabilisation

- Display flying elevations over water
- Self-regulating the flying elevations and altitude over water.
- Warnings on the approach to flight limits.
- Direct operating results of the various sensors.
- Display of flying elevations, calculated from available signals
- Visual and acoustic signals at flight limit situation.

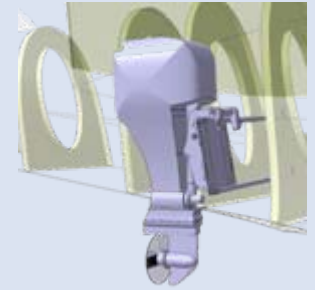


Styling & Equipment

Sliding hatchway for docking-manoeuvre



Different types of watertrusters

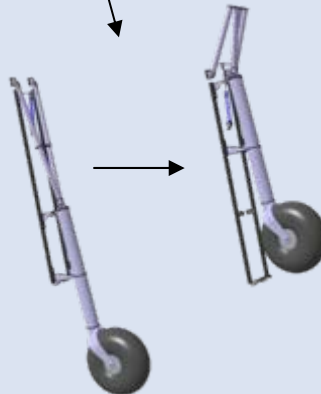
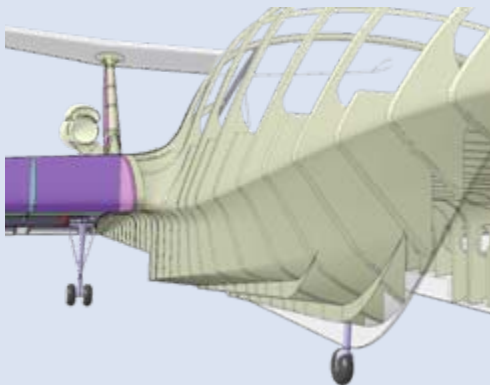


Honda BF20 outboard engine



Hübner – Braun FKD190

Retractable undercarriage



Hoverwing HW-20 — Wing in ground effect craft



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