

KRONOS SUBMARINE

KRONOS ARMoured SUBMARINE
MADE IN THE UAE

Kronos Submarine with a futuristic hydrodynamic design, delivers high performance, outstanding efficiency and significantly reduces energy costs when submerged. Driven by our highly skilled design, research and development team, this Hybrid vessel can comfortably accommodate 10 passengers and is suitable for commercial, rescue and combat operations.

The submarine features an innovative hull design which significantly reduces fuel consumption, increases maximum speed, and provides superior stability. This brings a whole new concept into production of submarines across the world.





SPECIFICATIONS

KRONOS ARMOURED SUBMARINE. MADE IN THE UAE

DIMENSIONS	
Width	7432 mm
Length	9025 mm
Height	2089 mm
Carrying Capacity	up to 3000 KG on water
Curb Weight	10000 KG
Seating Capacity	11
PERFORMANCE	
Fuel	Diesel
Max Speed on Water	80 kmph
Max Speed under Water	50 kmph
Working depth	100 meters
Max critical depth	250 meters
Air supply	36 hours
RANGE	
Hybrid Mode	54 hours
Generator Only Mode	18 hours
Battery Only Mode	36 hours
Electric Engine Power	1200 hp/2,400 Nm
PERFORMANCE	
Full Battery Charging Time	1,5 hours
Air refueling	1,5 hours
Engine Type	Electric Engine
Folding wings for transportation	



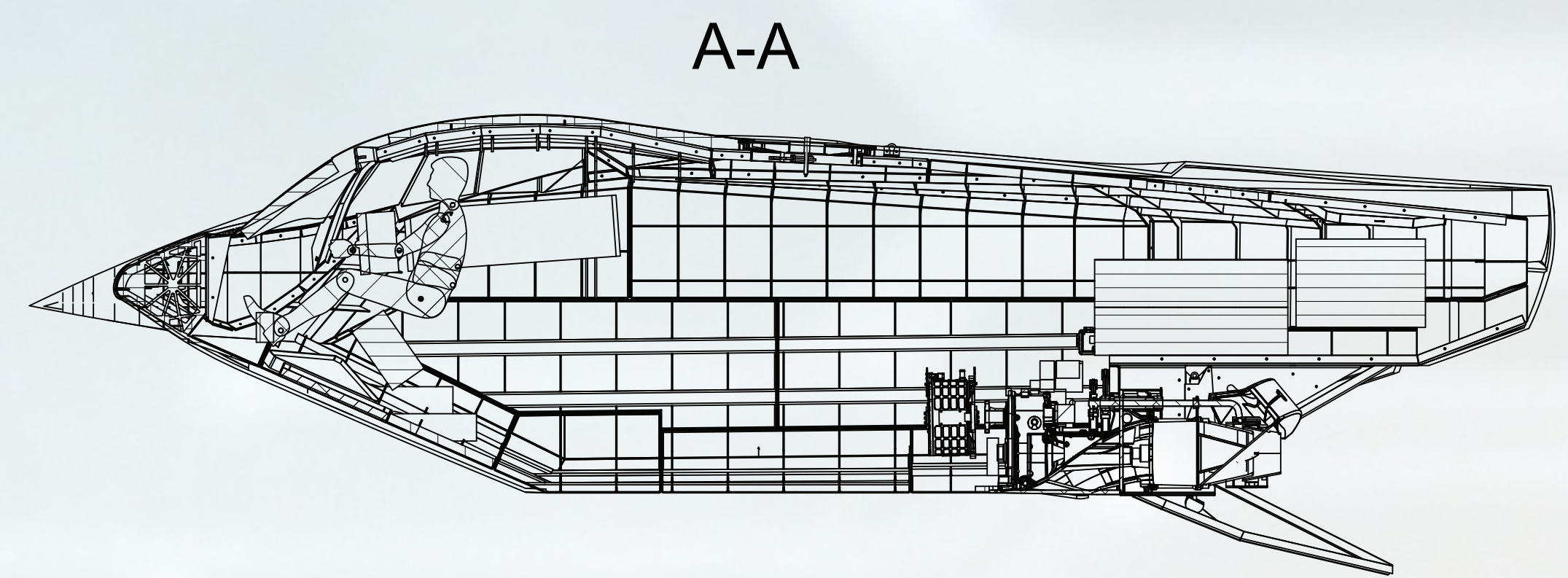
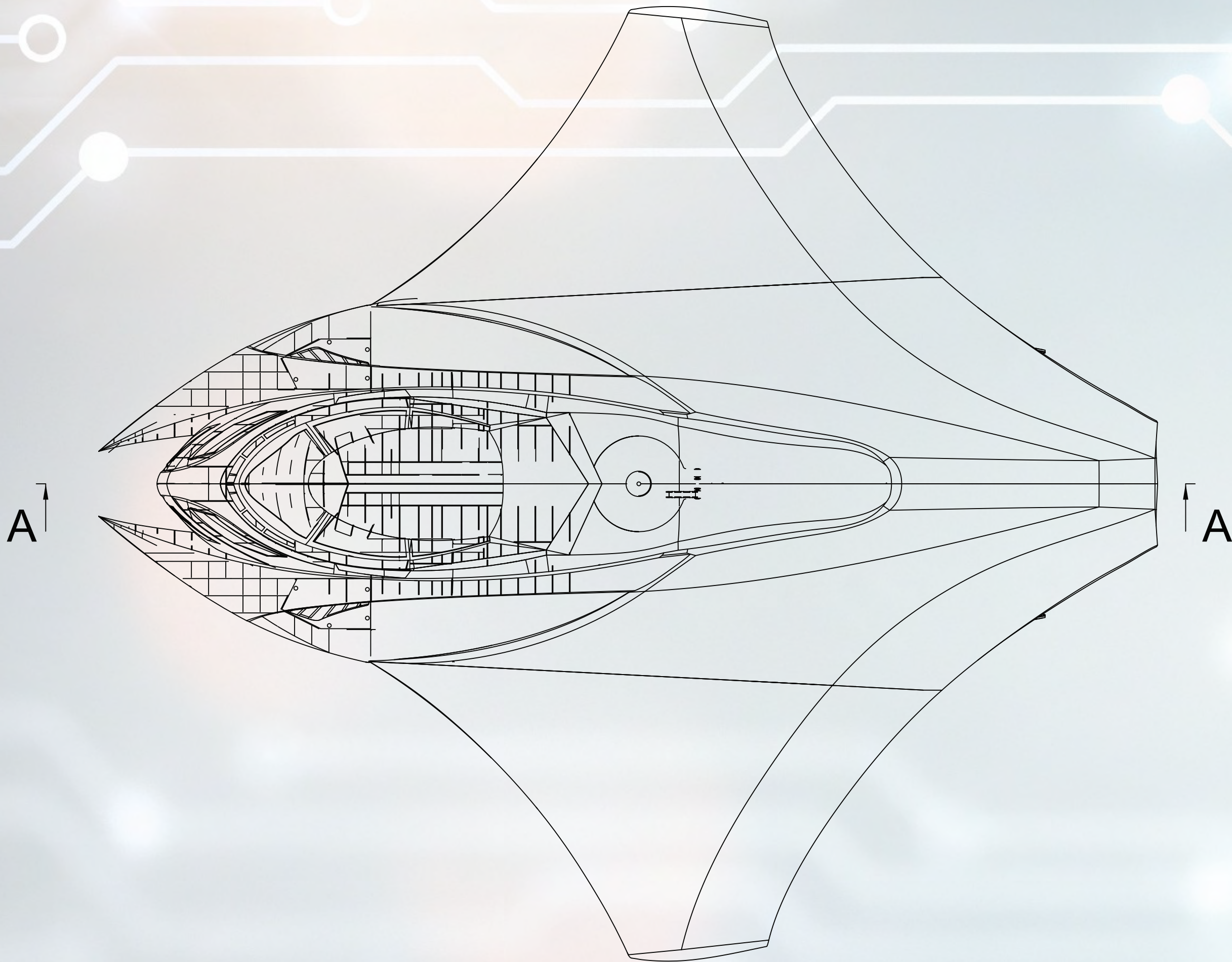
APPLICATIONS

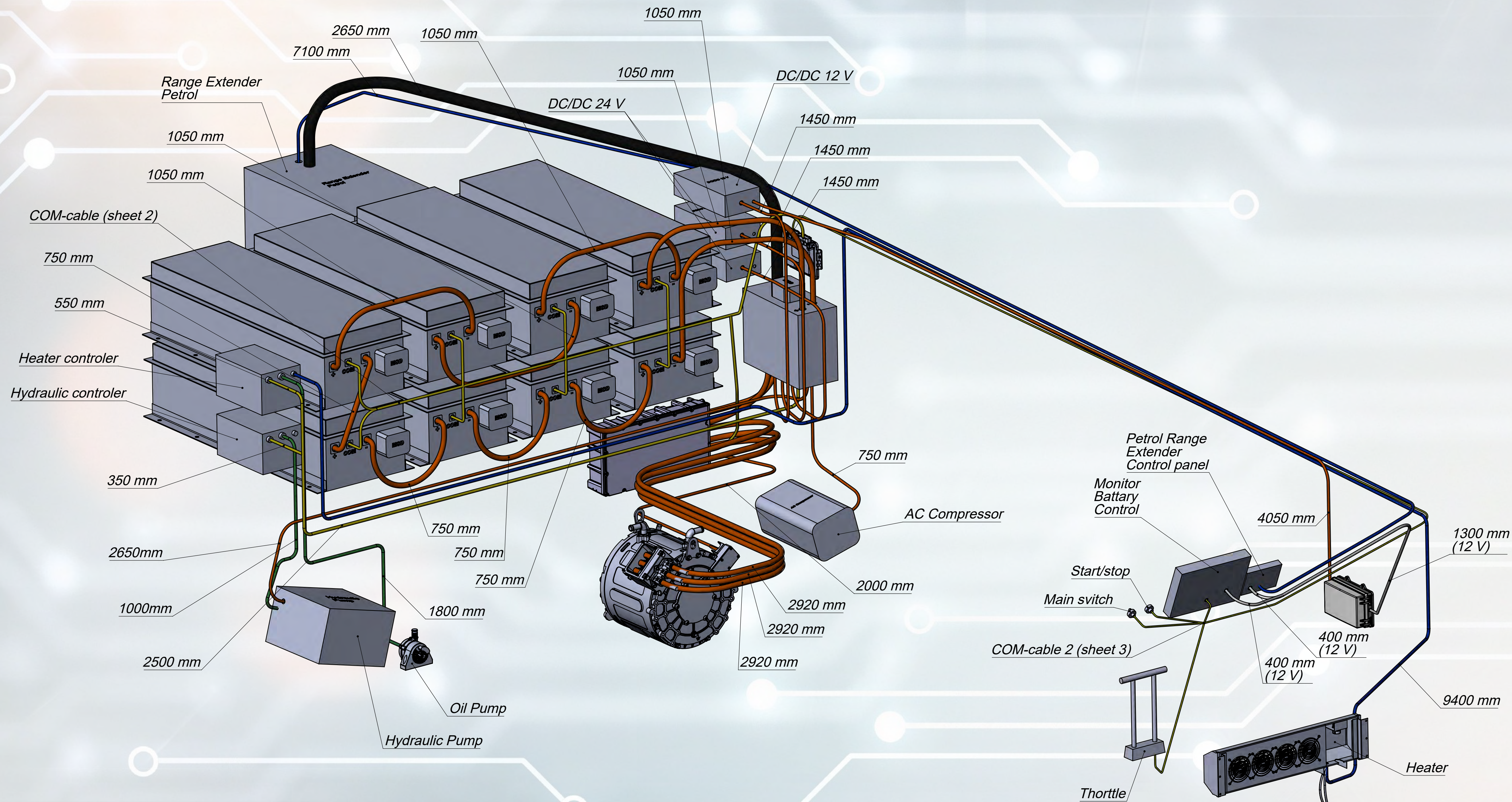
- Research missions
- Exploration of the seabed
- Visual inspection of underwater locations and objects
- Monitoring of the state of underwater pipes and cables (including using additional external devices and sensors)
- Rescue underwater work
- Exploration
- Tourism

OPTIONAL EQUIPMENT

- Manipulators
- Samplers
- External scanners and analyzers
- Surveillance cameras (including special ones)
- External connections for air supply, electricity, etc.
- Chamber of dry opening of hatches
- Chamber of underwater exit from the boat (lock and pressure chamber)
- Equipment for underwater towing
- Modification for operation in arctic conditions







Speed on surface – up to 70 kmph
Speed underwater – up to 50 kmph
Fuel capacity 18 hours for generator charge of 200 lt. of diesel.
Endurance under water 54-56 hours with 10 people.
Onboard AC, Air Dryer, Heater
Onboard CO scrubber
Optional water closet
Optional pressurized exit sluice (Pressure chamber)
Diving exit underwater gate
Charging time for electric batteries 1 hour at the base 2 hours from generator.
Steering - hydraulic powered
Size of the generator - 630x710x485 mm, 25 kW, diesel/petrol
Engine throttle - electronic throttle control handle, direct drive
Battery designed for purpose - for marine purpose, sealed box.
System is fitted with an isolator and emergency link in case of individual battery failure - yes
Battery capacity - 100 kW
Battery cooling - passive cooling
Battery Nominal Voltage - 560 V
Battery Safety standards - EEC Directive 93/112/EC
Onboard 12V – 10 kW
Onboard 24V – 12 kW
GPS / Chart Plotter Unit - yes, SIMRAD, with echo sounder
Electronic periscope
Transport/storage method - trailer, pickup towing on carriage

Additional onboard air compressor 300 bar.
Optional hand-type manipulator
Optional onboard underwater drone
Optional onboard quadcopter
Optional surface autopilot
Underwater / surface radio stations
4- 6 Light Weight Torpedos can be installed with inside tube launchers " Black Scorpion" type.
Night Vision cameras (360 degree)
Emergency ascent system
Emergency firefighting system
Emergency (additional) life support system
Bilge pumps
Composite lightweight body
High signal dissipation factor (STEALTH technology)
High mobility and maneuverability in a submerged position
Low noise level in all modes
Carrying capacity up to 3000 kg
Additional Maneuvering System (Active Maneuvering System)
Underwater spotlight
Adaptive interior lights
Ice protection up to 20 centimeters
Capable of moving in muddy water
Fresh water tank 200 liters
Possibility of equipping with customer-specific external sensors

Supplier of components used in Kronos Submarine:

Rawsun Technology (Shantou) Co Ltd / China

www.rawsuns.com

Electrical drive motor

Main battery

Electronics control system

Castoldi S.r.L. / Italy

www.castoldijet.it

Waterjet

Simrad / Norway

<https://www.simrad-yachting.com/>

Navigation complex

Sonar

Radar

Contarini Leopoldo Srl / Italy

<https://contarini.net/>

Hydraulic system

A.P.I. S.r.l. / Italy

www.api-pneumatic.com

Pneumatic system

Aerotecnica Coltri S.p.a. / Italy

www.coltri.com

Breathing Air Compressors