

# “Technology for the future”

ACE is a large-scale laboratory facility designed to develop and test new aquaculture technologies. Facility users are researchers and others conducting practical experiments and tests both under optimally controlled and realistic conditions.

ACE has offices in Trondheim and on the island of Frøya, where our vessel and equipment are located, and where research activities are carried out.



# Torra

Contact vessel:

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Torra is 42 feet long and custom-built for research purposes. It is well equipped with relevant technologies. The vessel has a top speed of 35 knots and can thus operate efficiently over a large area.

## General

- » Length: 14 meters
- » Beam: 4 meters
- » Keel depth: 0.7 meter
- » Height: 3.5 meters including mast
- » 10 seatings including skipper
- » Max speed: 30 knots. Cruising speed: 25 knots
- » Fuel capacity: 2x1000 litres diesel
- » Engines: 2 x Iveco 370 hp each (276kW)
- » Forward thrust driven by 2 x water jet nozzles
- » Bow thrusters
- » Easy access on each side
- » Good working space located in the rear
- » Heating: diesel driven Webasto and defroster
- » Possible to mount temporary equipment to the mast
- » Possible to lead wires through roof hatches
- » Lantern lights for use during diving, anchoring and regular sailing
- » Dive flag
- » Anchor
- » Extra bright working lights both indoor and outdoor
- » Search light
- » Refrigerator with freezer
- » 2 cooking plates
- » Hot and cold water
- » Separate WC

## Instrumentation

- » Chartplotter
- » Echo sounder
- » Radar
- » AIS (Kongsberg Maritime), transmits and receives.
- » Wind gauge with air temperature sensor, seawater temperature, barometric pressure and wind direction
- » Olex Ocean mapping system with 2 screens also visible from outside.
- » VHF, stationary and portable.

## Equipment

- » Crane Palfinger 2,3 MT. Maximum length 5 meters (380 kilograms)
- » Capstan Rapp Hydema, 1500 kilograms
- » Winch carrying 300 meters wire. Maximum load, 100 kilograms
- » 230V aggregate producing 6Kw
- » Pressurized air
- » Freshwater tank with 400 litres capacity
- » Outdoor outlets
  - in front and rear
  - 230V, 12V
  - Pressurized air
  - Cold freshwater
- » Hydraulics (rear)
- » Seawater pump (rear)
- » Indoor outlets
  - 230V and 12V suitable for computers and other delicate instruments
- » Tools
- » Dinghy ("Steady" - 3,2 meters)
- » Electrical outboard engine (approx. 3 Hp/2.24kW)
- » Outdoor folding table (80x70 cm)

## Safety equipment

- » 12 life jackets
- » 2 life rafts carrying 6 people each
- » 2 survival suits
- » 2 life buoys
- » distress rocket, smoke signal and distress flare
- » 2 fire extinguishers
- » 1 grab bag
- » First aid equipment
- » Ladder
- » Fire detecting system in engine room, cabin and below deck
- » Fire-fighting system in engine room
- » VHF with digital autocall
- » AIS SART (emergency beacon)

