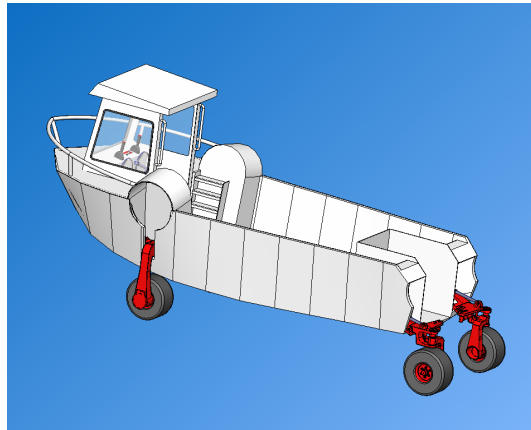
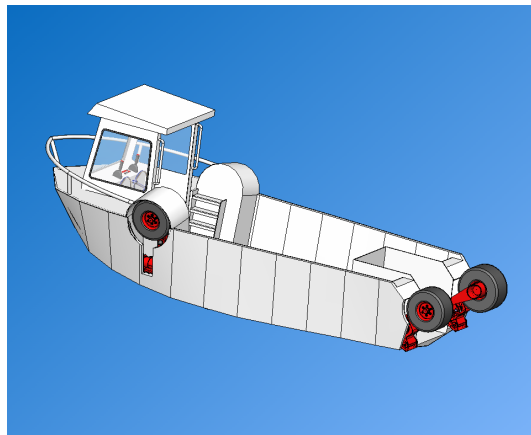




HYDRO-ARMOR



PRESENTATION DOCUMENT FOR AMPHIBIOUS BOAT 4WD



CONSTRUCTION HYDROMECHANIQUE

Tel : 02-98-67-28-61 Fax : 02-98-67-29-23

E-Mail : hydro-armor@wanadoo.fr

Characteristics of the machine

Hull

Length: from 7 to 8.50m

Breadth: from 2.75 to 3.00m

Material: Aluminium AG4 MC

Weight of the naked hull: 1200 kg

Weight of the machine in starting order with Z-Drive engine: 2800 kg

Useful charge on the wheels: 1500 kg

Useful charge on the sea: According to the marine authority agreements (in vigour in the country)

Engine

Mark: Volvo

Type: D3-160 DPS

Displacement: 2 400 cm³

Power on the propeller shaft: 114 kW (155 HP) at 1900rpm

Weight with duo prop: 330 kg

Cooling system: mixt: Radiator + keel-cooling

Transmission: Hydrostatic with a variable flow pump mounted on the Diesel engine

Wheels

Type: Trelleborg Twin 421

Dimensions: 26-12-12

High without charge: 654mm

Breadth without charge: 320 mm

Admissible charge: 1400 kg at 2.7 bar per wheel

Wheel trains

Direction: On the rear train

Lifting stroke on the front train: 1590 mm

Lifting stroke on the rear train: 1230 mm

High to the ground: 500 mm

Wheels entertainment: 4 hydraulic motors marinated

Type of brake: Hydraulic when there is a lack of pressure (on the rear wheels only)

Terrestrial characteristics of the machine

Passable slope on stabilised ground (concrete, asphalt...):

Without charge (Weight= 2800 kg): about 45% (say 24°)

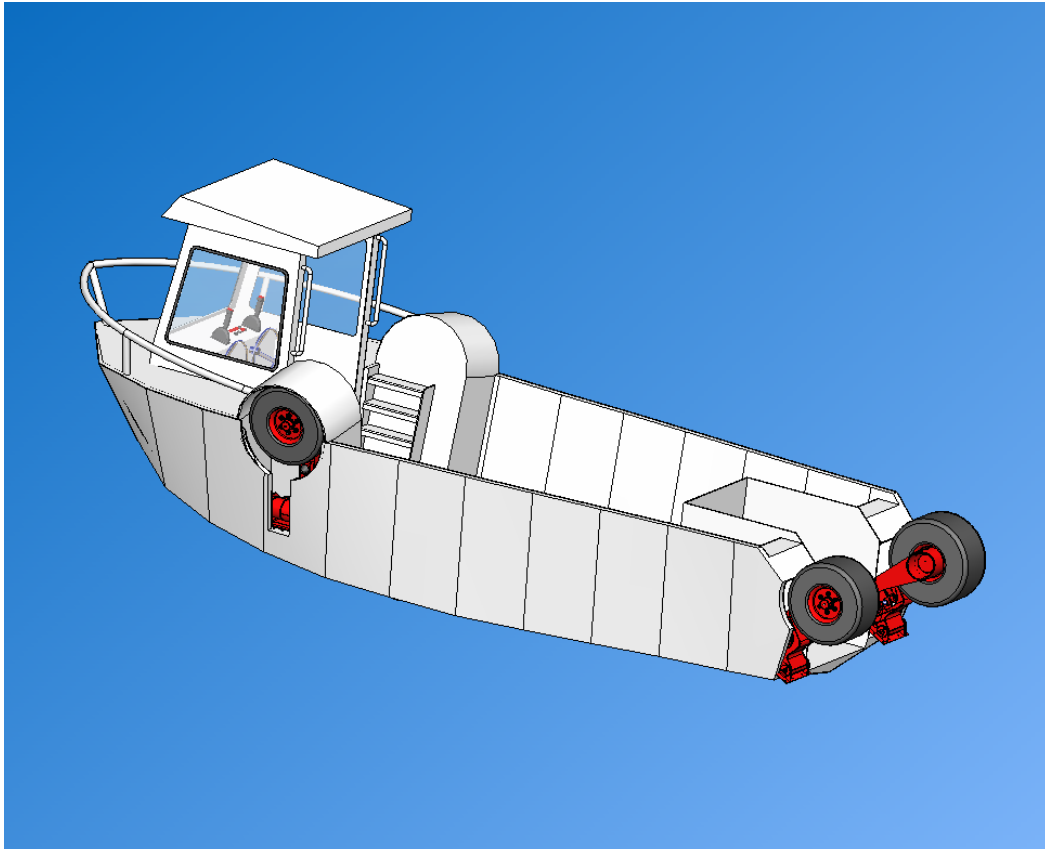
In charge (Weight= 4300 kg): about 30% (say 17°)

Maximal terrestrial speed:

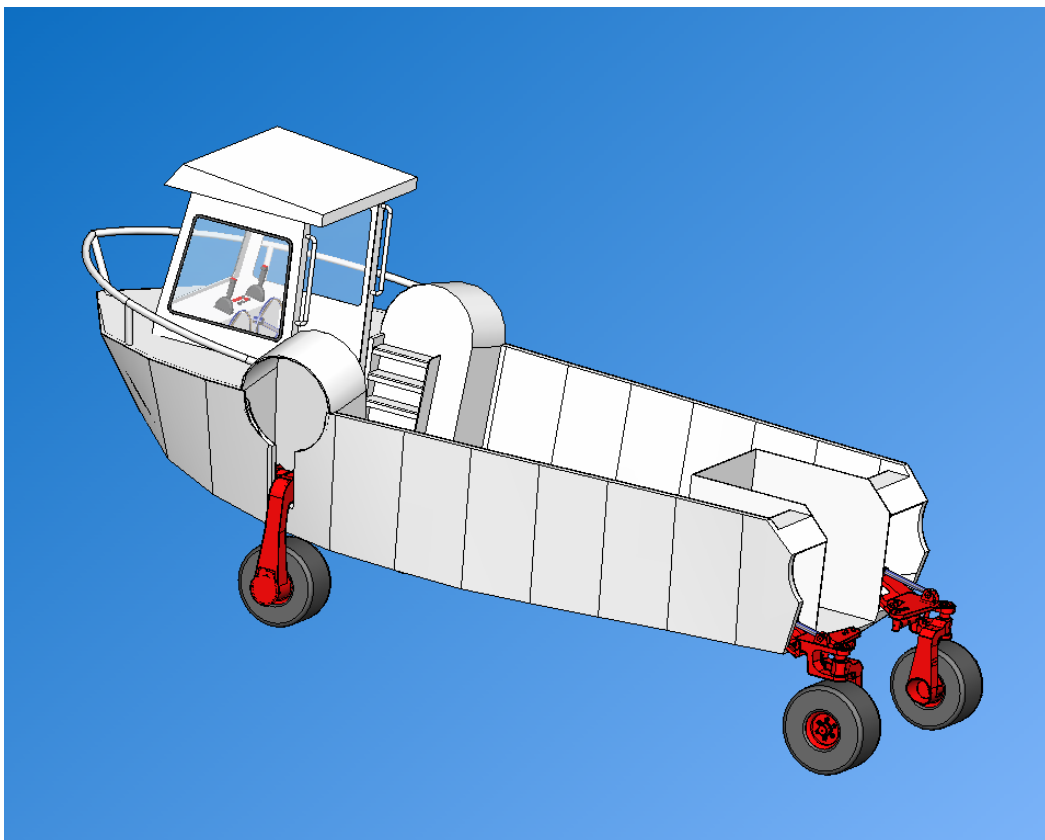
In 4WD position: 5.5 km/h (for 3000rpm at the Diesel engine)

In 2WD position: 11 km/h (for 3000rpm at the Diesel engine)

3D views



« Sea position (represented without Z-Drive) »



« Terrestrial position (represented without Z-Drive) »

2D views

