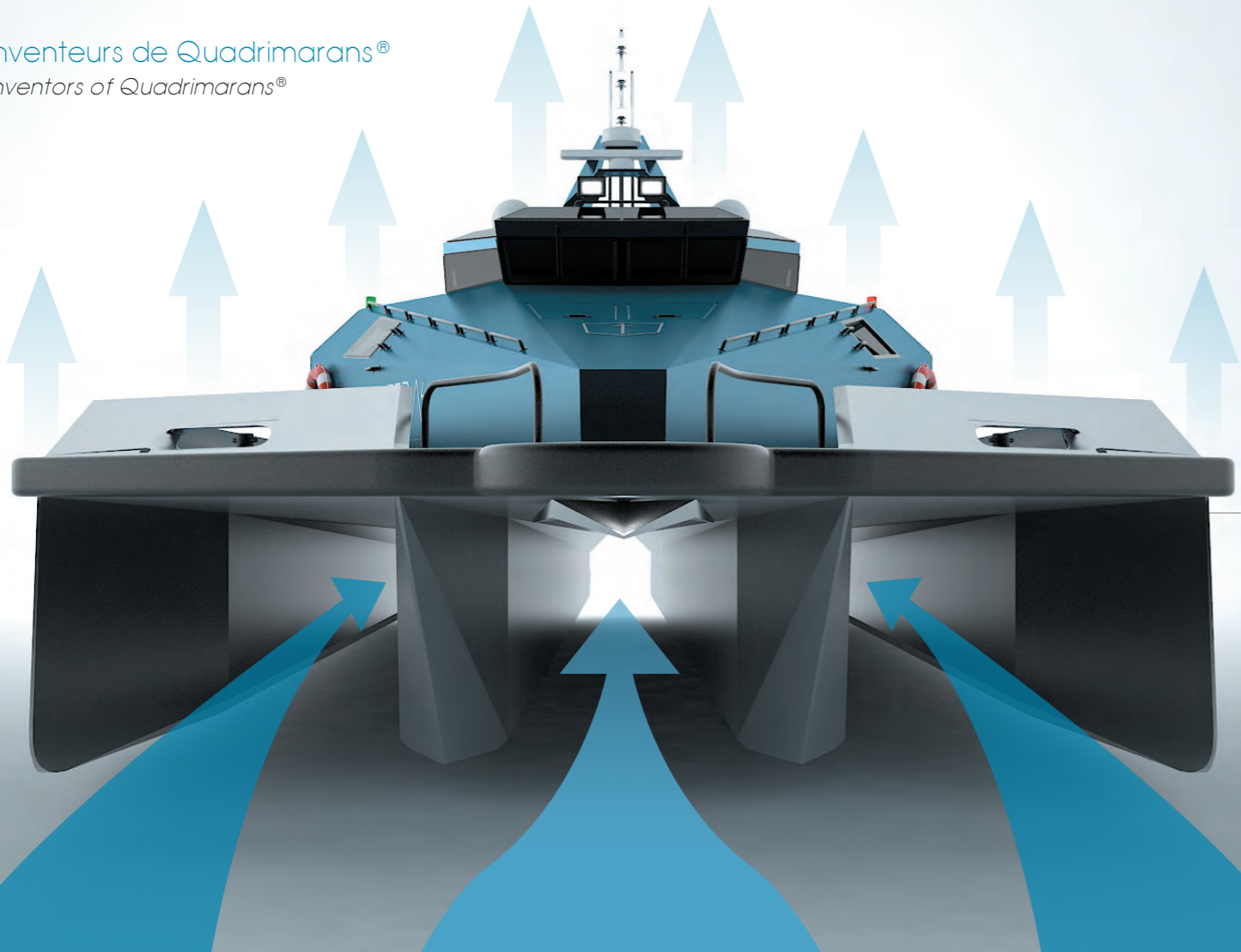




TERA⁴
Aero-boats®

+Stable +Economique +Rapide



Tera-4 repousse les limites techniques du transport maritime multicoques le Quadrimaran® garanti de hautes performances puisqu'il combine des avantages hydrodynamiques et aérodynamiques pour accéder à une navigation semi-aéroportée inégalée jusqu'à présent. Navigant entre air et mer, le Quadrimaran® Tera-4 garantit, en plus de sa stabilité et de sa rapidité, une diminution de -30% à -40% de la consommation d'énergie et ouvre ainsi de nouvelles perspectives dans l'industrie navale.

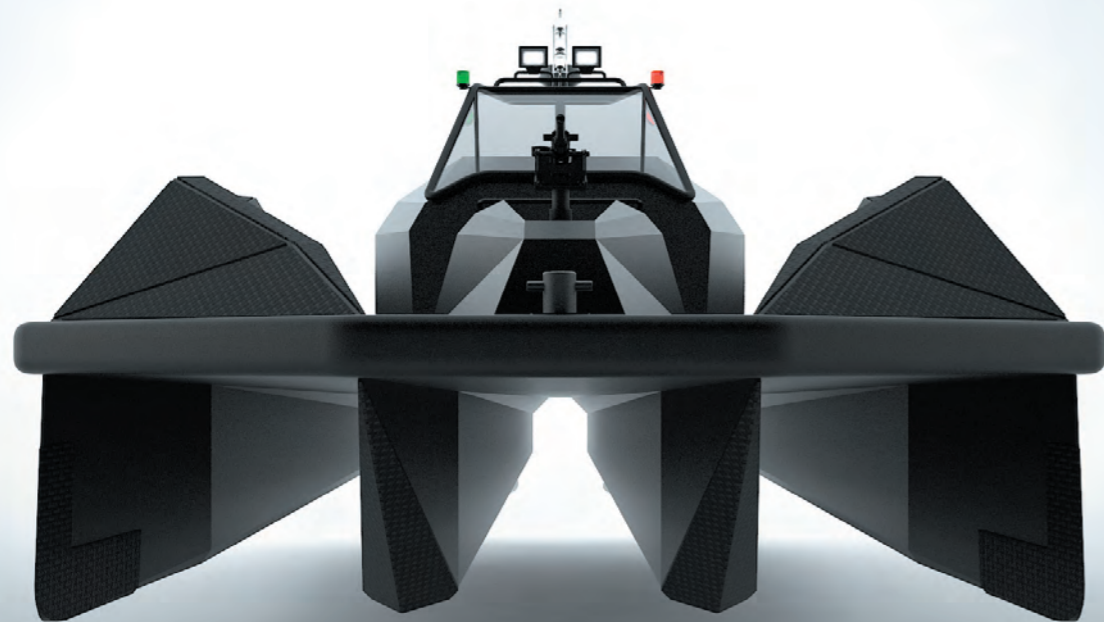
Un concept novateur abouti

L'innovation majeure du Quadrimaran® Tera-4 réside dans les 3 tunnels que forment ses quatre coques. Entièrement conçues en aluminium, les coques Tera-4 ont fait l'objet de tests hydrodynamiques et aérodynamiques intensifs en bassins de carènes (France et Suède) et en souffleries (Saint-Cyr). Des études de structures ont également été réalisées sur un large spectre de vagues (plate-forme inertielle). En conformité avec l'OMI (Organisation Maritime Internationale), les coques sont approuvées par les plus grandes sociétés de classifications qualifiées HSV (High Speed Vessel) et par les Bureaux Veritas, Lloyd Register, Det Norske Veritas...

Tera-4 has pushed the technical limits of multi-hull maritime transport. The Quadrimaran®. The most innovative high performance of such a concept has been guaranteed through the combination of hydrodynamic and aerodynamic advantages so as to access unrivalled, up until now, semi airborne navigation. Navigating between the sea and air, the Tera-4 Quadrimaran® guarantees, in addition to its stability and its rapidity, a decrease from -30% to -40% in energy consumption and thus opens up new horizons within the shipping industry.

An technically advanced innovative concept

The main innovation of the Tera-4 Quadrimaran® resides in the fact that 3 tunnels form the 4 hulls. Entirely made out of aluminium, Tera-4 hulls have been through intensive hydrodynamic and aerodynamic tests in trial basins (France and Sweden) and wind tunnels (Saint-Cyr). Structural studies were also carried out on a broad spectrum of waves (inertial platform). In accordance with the IMO (International Maritime Organization), the hulls are approved by the largest qualified HSV (High Speed Vessel) classification companies and by the Bureaux Veritas, Lloyd Register, Det Norske Veritas...



+ÉCOLOGIQUE +STABLE +RAPIDE,...

Contrairement aux bateaux existants type monocoque, le Quadrimaran® « surfe » sur des coussins d'air naturels et se démarque par ses nombreux avantages.

- Il bénéficie d'une extrême stabilité car il subit très peu de roulis et de tangages : un avantage non négligeable pour les personnes sujettes au mal de mer.
- Il subit très peu de frottements eau/air et de contraintes liées aux vagues grâce au phénomène de « planning » induit par l'engouffrement de l'air dans ses 3 tunnels : sa consommation est ainsi réduite de près d'un tiers.
- Il offre une large gamme de vitesse d'utilisation, aussi à l'aise à faible allure qu'à grande vitesse. Il peut atteindre les 55 nœuds car il optimise la puissance de ses moteurs tout en gardant une maîtrise totale du pilotage.
- Il possède un faible tirant d'eau (50 cm) quelle que soit la taille du bateau choisie et peut ainsi naviguer en eaux peu profondes sans détérioration du fond marin. Il peut même « beacher », c'est à dire accoster en glissant sur les rives.

+ECOLOGICAL +STABLE +RAPID,...

Unlike existing single-hull boats, the Quadrimaran® « surfs » on natural airbags and stands out from the crowd due to its many advantages.

- It benefits from great stability as it is little affected by rolling and pitching: a significant benefit for those who suffer from sea sickness.
- It is also little affected by water/air friction and constraints linked to the action of waves due to the phenomena known as « planning » induced by the engulphment of air into its three tunnels: its consumption is significantly reduced by 30%.
- A wide range of operating speeds is possible and it is as comfortable at low speed as it is at high speed. It can reach 55 knots as it maximizes the power of its engines whilst at the same time steering can be totally controlled.
- It has low water depth (50 cm) regardless of the size of the boat chosen and can be navigated in relatively shallow water without damaging the seabed. It can even perform as a « beacher », that is to say sliding along shores.



CREW



SURVEY



FIRE RESCUE



PILOTE



ACTION



PASSION



PICK-UP

DE MULTIPLES DOMAINES D'EXPLOITATION

La gamme de coques Tera-4 offre des tailles, des motorisations et des aménagements en mesure de répondre aux attentes des armateurs et des navigants en termes de performances et de respect de l'environnement. Du transport de marchandise (fret), sans oublier les bateaux de travail et de transport de personnes à haute-vitesse ; le concept du Quadrimaran® s'applique à des utilisations variées grâce à sa polyvalence et sa grande fonctionnalité.

MULTIPLE AREAS OF OPERATION

The range of Tera-4 hulls offer sizes, engines and made-to-measure fittings to meet the needs of boat owners and seafarers alike in terms of performance and the respect of the environment. From yachts (yachting) and tender (short distance transport) to the transporting of goods by boat (freight), not forgetting work boats and the high speed transportation of people; the concept of the Quadrimaran® can be applied to numerous uses due to its versatility and high level of functionality.

L'outil pour faire la différence

Efficace et manœuvrable, la Quadrimaran® Tera-4 est un outil de travail supplémentaire pour toutes les opérations en mer. Robuste, doté d'un pilotage précis et d'une capacité à virer à plat en toutes circonstances, il représente de nouvelles perspectives professionnelles. Son faible coût d'exploitation conjugué à sa polyvalence d'utilisation le rendent optimal pour tous types de missions : de la surveillance des côtes au bateau pilote, du transport de personnes en off-shore au bateau pompier.

A tool that makes all the difference

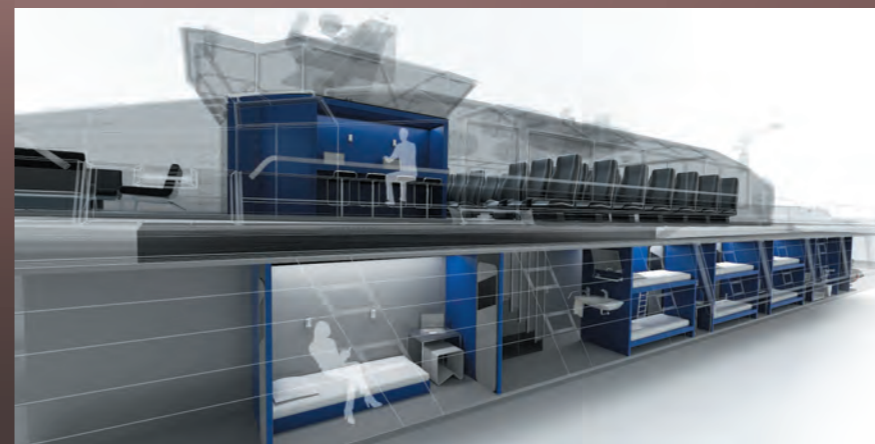
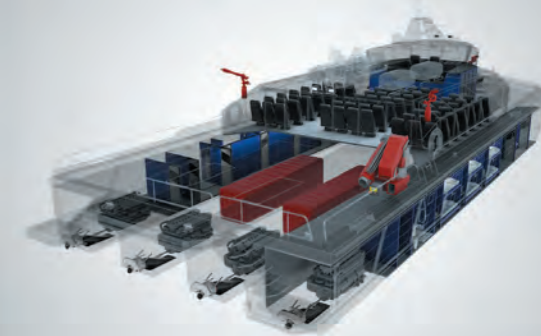
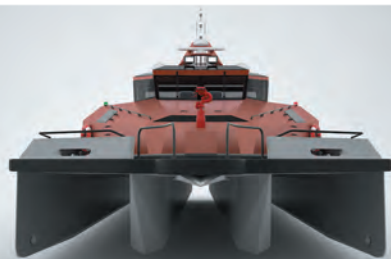
The Tera-4 Quadrimaran® is both efficient and manoeuvrable and is an additional working tool for all operations which take place at sea. Robust with precision steering and an ability to turn flat in all circumstances, it offers new professional perspectives as a result. The low operating costs of the Quadrimaran® combined with its versatility makes it ideal for all types of assignments: from coastguard to pilot boat duties and from the transportation of off-shore personnel to firefighting duties.



PICK-UP

Length overall (m) : 28.0
Beam overall (m) : 11
Draught (m) : 0.47
PAX (pers) : 70
Crew (pers) : 5
Engine(s) (HP) : 4 x 970 .C32 Caterpillar
Propulsion : Water-jet directional
Cruising. speed (kn) : 35
Max. speed (kn) : 45
Range (nm) : 500 nm
Consumption : 480 l / hour at 35 kts 1690 Rpm
Fuel tank(s) capacity (L) : 2 x 3 750 L
Cargo capacity (kg) : 5 000 kg
Class. : Bureau Veritas
Equipment : Cargo Area / Business seat
/ Boat landing / Wifi+video
/ Luggage racks and personal
plug for PC/ phone / Large
windows...

Price (excl tax) : 7.520 K€



La gamme Pick Up est efficace, manoeuvrable et s'avère un outil de travail supplémentaire pour toute opération en mer. Robuste, il est doté d'une conduite précise et d'une habilité à tourner sur lui-même en toute circonstance. Il offre, par conséquent, de nouvelles perspectives professionnelles. Les coûts bas d'exploitation du quadrimaran combinés à sa polyvalence font de lui un idéal pour répondre à tout type de tâche.

The Pick-up range is efficient, manoeuvrable and is an additional working tool for all operations which take place at sea. Robust with precision steering and an ability to turn flat in all circumstances, it offers new professional perspectives as a result. The low operating costs of the quadrimaran combined with its versatility makes it ideal for all types of assignments.



CREW

Length overall (m) : 22.0

Beam overall (m) : 9.6

Draught (m) : 0.47

PAX (pers) : 50

Crew (pers) : 3

Engine(s) (HP) : 4 x 680 .C18

Propulsion : Water-jet directional

Cruising speed (kn) : 35

Max. speed (kn) : 45

Range (nm) : 778 or 260 l/h

Range (nm max speed) : 520 or 490 l/h

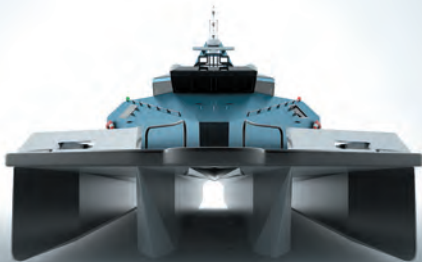
Fuel tank(s) capacity (L) : 3 x 1 500

Cargo capacity (kg) : 3 500

Certification : Bureau Veritas I Hull M SDS-
Sea area 2 <200Nm from port

Equipment : Cargo Area / Business seat /
Boat landing/ Wifi+video/
Luggage racks and
personal plug for PC/ phone /
Large windows

Price (excl tax) : 3.375 K€





SURVEY

Length overall (m) : 22.0

Beam overall (m) : 9.6

Draught (m) : 0.47

Max (pers) : 18

Crew (pers) : 10

Engine(s) (HP) : 4 x 680 .C18

Propulsion : Water-jet directional

Cruising. speed (kn) : 35

Max. speed (kn) : 45

Range (nm) : 778 or 260 l/h

Range (nm max speed) : 520 or 490 l/h

Fuel tank(s) capacity (L) : 3 x 1 500

Cargo capacity (kg) : 3 500

Certification : Bureau Veritas I Hull M SDS-
Sea area 2 <200Nm from port

Equipment : Business seat /Boat landing/
Wifi+video/ Luggage racks and
personal plug for PC/ phone /
Large windows

Price (excl tax) : 3.109 K€





FIRE RESCUE

Length overall (m) : 16.0

Beam overall (m) : 7.6

Draught (m) : 0.47

Max pers to save (liferrafts) : 600

Crew Firefighters (pers) : 10

Engine(s) (HP) : 2 x 669 .C12

Propulsion : Water-jet directional

Cruising. speed (kn) : 35

Max. speed (kn) : 50

Range (nm) : 520 or 130/h

Range (nm max speed) : 340 or 260/h

Fuel tank(s) capacity (L) : 3 X 500

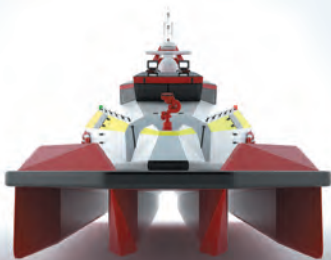
Cargo capacity (kg) : 2 500

Certification : BV. Div 236/ 222 / LR. MCA

Work boat

Equipment : 3 X FIFI / Bumper / 12 Liferrafts
of 50 Pers / Quarterdeck

Price (excl tax) : 970 K€





PILOTE

Length overall (m) : 16.0

Beam overall (m) : 7.6

Draught (m) : 0.47

Pilots (pers) : 2

Min. crew (pers) : 7

Engine(s) (HP) : 2 X 669 .C12

Propulsion : Water-jet directional

Cruising. speed (kn) : 35

Max. speed (kn) : 50

Range (nm) : 520 or 130l/h

Range (nm max speed) : 340 or 260l/h

Fuel tank(s) capacity (L) : 3 x 500

Cargo capacity (kg) : 2 500

Certification : BV. Div 236/ 222 / LR. MCA

Work boat

Equipment : Bumper / Boat-landing /
Accommodation ladder

Price (excl tax) : 923 K€





ACTION

Length overall (m) : 10.0

Beam overall (m) : 4.7

Draught (m) : 0.50 (outboard)
0.30 (waterjet)

Max. person (pers) : 18

Seating capacity (pers) : 8

Engine(s) (HP) : 2 x 300

Max. speed (kn) : 55

Range (nm max speed) : 300

Fuel tank(s) capacity (L) : 2 x 500

Cargo capacity (kg) : 1 000

Price (excl tax) : 345 K€

*Price for outboard motors





ACTION C

Length overall (m) : 10 m

Beam overall (m) : 4.70

Draught (m) : 0.50 (outboard)
0.30 (waterjet)

Max. person (pers) : 18

Min. crew (pers) : 6

Engine(s) (HP) : 2 X 300

Max. speed (kn) : 55

Range (nm) : 190/h

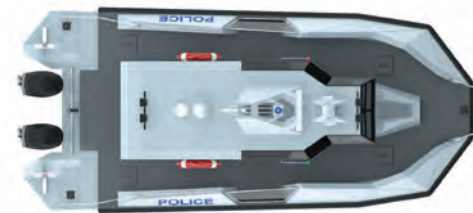
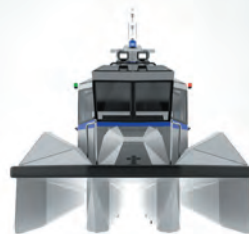
Range (nm max speed) : 300

Fuel tank(s) capacity (L) : 2 x 500

Cargo capacity (kg) : 1 000

Price (excl tax) : 397 K€

*Price for outboard motors





PASSION

Length overall (m) : 10.0

Beam overall (m) : 4.70

Draught (m) : 0.50 (outboard)
0.30 (waterjet)

Pilots (pers) : 1

Divers (pers) : 25

Engine(s) (HB) : 2 x 200

Cruising. speed (kn) Kts : 25 Kts

Max. speed (kn) : 40 Kts

Range (nm) : 130

Range (nm max speed) : 100

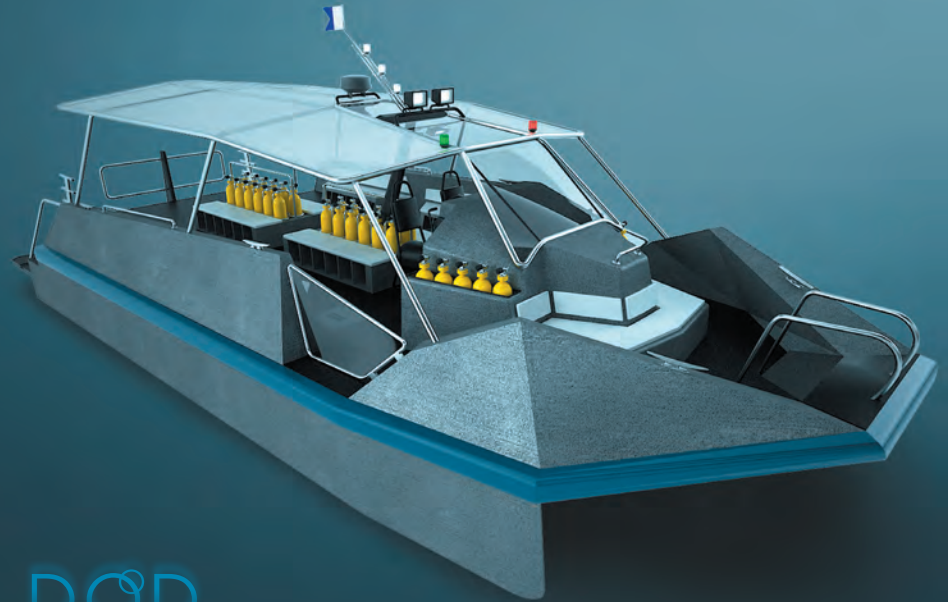
Fuel tank(s) capacity (L) : 400

Cargo capacity (kg) : 850

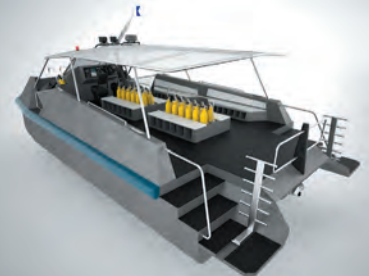
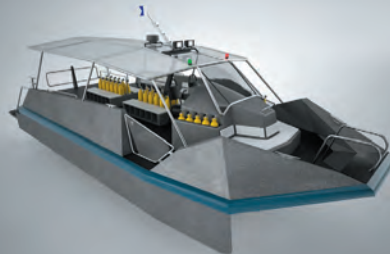
Certification : CE

Price (excl tax) : 183 K€

**Price for outboard motors*



DOD





TERA4
Aero-boats®

100 Impasse des Houillères
13 590 Meyreuil - FRANCE
contact@tera-4.com
www.tera-4.com

SUMMARY TABLE

Ships	LENGHT	PRODUCTS	ENGINES	PRICE HT (Rate Base)
T-28 Pick-UP	28 m	Freight boat	4 x Diesel engines	7.520 K€
T-22 Crew	22 m	Crew boat	4 x Diesel engines	3.375 K€
T-22 Survey	22 m	Surveillance	4 x Diesel engines	3.109 K€
T-16 Fire Rescue	16 m	Firefighter boat	2 x Diesel engines	970 K€
T-16 Pilote	16 m	Pilot-boats	2 x Diesel engines	923 K€
T-10 Action	10 m	Task force	2 x Mercury Verado 300ch	345 K€
T-10 Action C	10 m	Task force	2 x Mercury Verado 300ch	397 K€
T-10 DOD	10 m	Dive boat	2 x 200ch (outboard)	183 K€

Rates are indicative and calculated on the reference of boats with the minimum equipment.
A comprehensive study has to be realised depending on specific needs and requests to give the final price.



contact@tera-4.com
www.tera-4.com

SARL Tera-4 /// RCS Aix en Provence 801 428 061 00015