

KRAKA



JET BOARD

Some Fear Change
Others Drive It

MIL

SAR

R&D

The Jet Board that Totally Changes your Maritime Capability

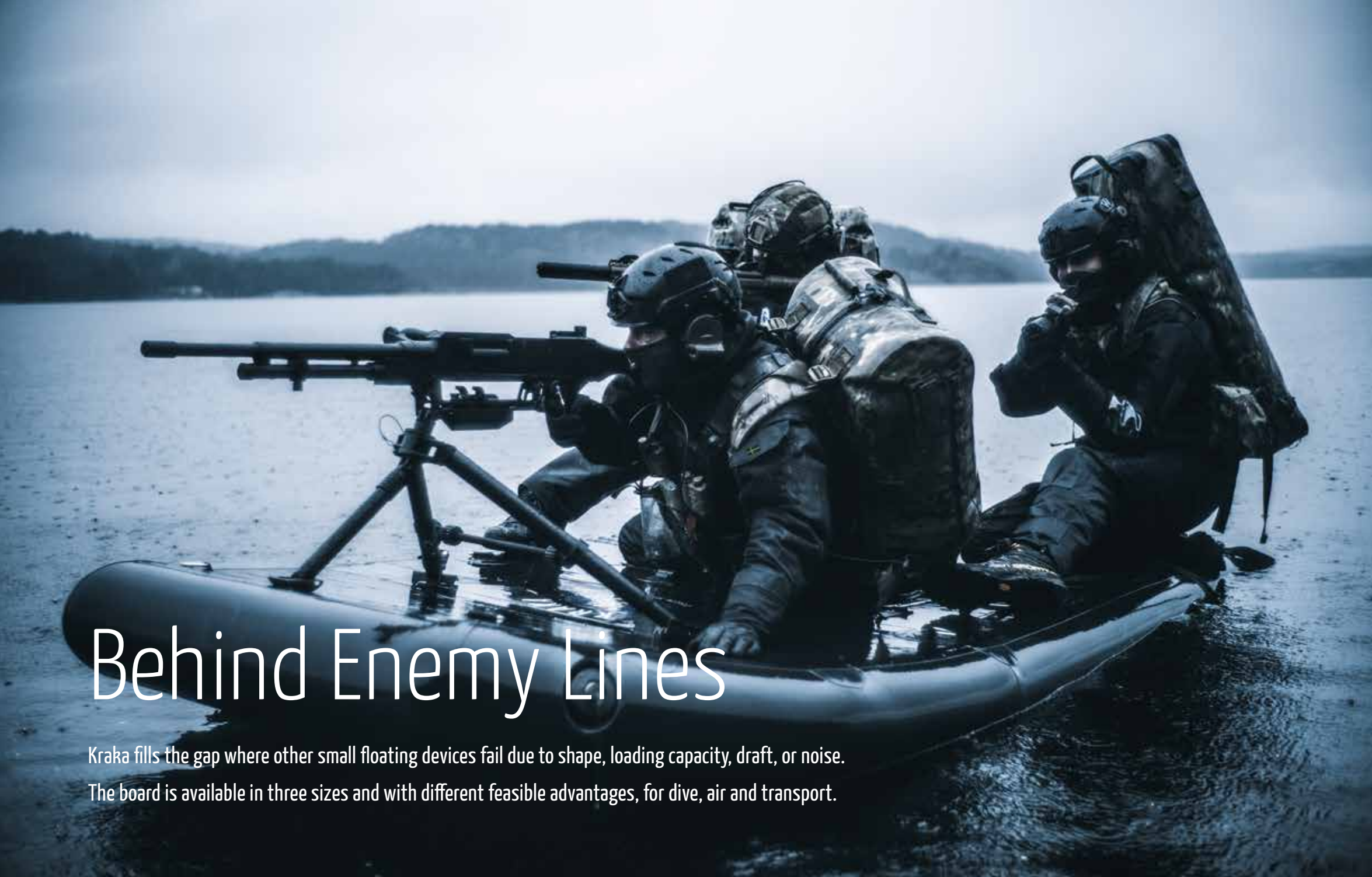


Kraka has been developed for operational work in critical and challenging situations at sea – where silence, low profile, accessibility, and agility are crucial for the mission's success.



Thanks to her unique features, Kraka is versatile and useful in many situations, from reconnaissance and below radar insertions to river crossings, overwatch, boarding, recovery, rescue operations and other stealth mode missions.

Kraka can be carried through terrain or quickly launched from larger vessels, vehicles, helicopters or aircraft. The board will take you safely over difficult and shallow waters, closer to any shore or other ship than ever possible before. She is silent and almost invisible when camouflaged, difficult to detect by radar. Infrared thermal protection is also available.



Behind Enemy Lines

Kraka fills the gap where other small floating devices fail due to shape, loading capacity, draft, or noise. The board is available in three sizes and with different feasible advantages, for dive, air and transport.

Areas of Application

- Quickly launched from larger vessels, vehicles, helicopters or aircraft
- Dry and safe transportation of men and equipment, over shallow or unknown waters
- Covert insertion behind enemy lines
- Use as an un-manned platform with remote operational control
- Below radar missions
- Use as an over-watch or fire support platform
- Means of transport and a solid and dry base for combat divers
- Efficient insertion of specialists, such as a translator or a surgeon
- Quick seaborne extraction of men or casualties
- Amphibious fire support
- Can be fitted with surveillance equipment and sensors for intelligence gathering
- Hide in an underwater cache for discreet extraction
- Tow as a raft for extra loading capacity

Kraka is built to withstand hard impacts while protecting the vital components inside, allowing users to push the limits



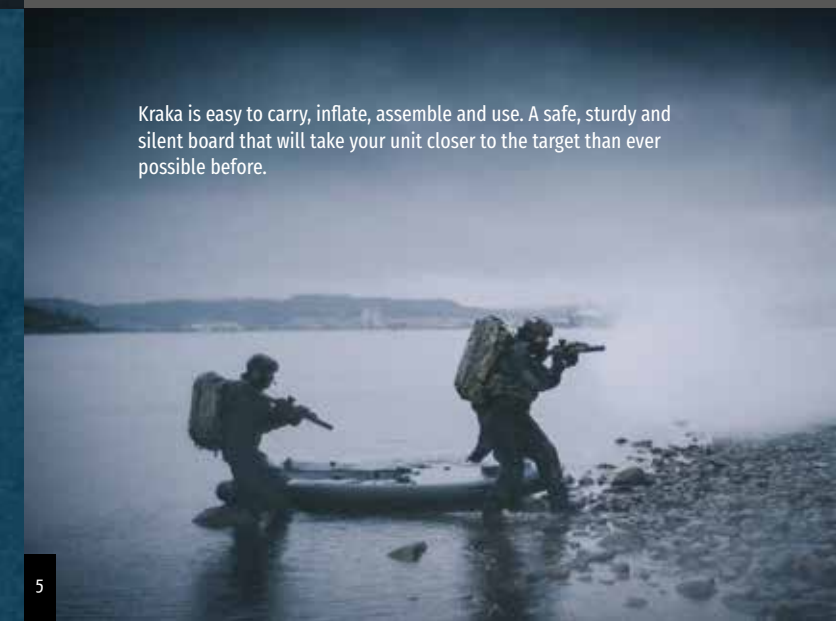
3 models in different sizes

18 knots maximum speed

600 kilos maximum payload



When camouflaged, Kraka is virtually impossible to detect. Infrared thermal protection is also available.



Kraka is easy to carry, inflate, assemble and use. A safe, sturdy and silent board that will take your unit closer to the target than ever possible before.

Cache, your Best Secret

Hide or transport Kraka under water. When you are ready to go, she is inflated within seconds.

Effectively Hidden

By opening Kraka's cache valves in the bow, the board is quickly deflated. While the board is deflating the drive unit fills with water, leaving the battery weight to sink Kraka under water to a depth of two meters. With a diving bag, Kraka can be lowered down to 26 meters.

Reinflate within Seconds

Thanks to the advanced and versatile Hammar® COR electro-

nic inflator, you can preset when Kraka should be reinflated to suit your mission. The electronic trigger is completely autonomous and can act on time, depth, contact with water, manually, or on a combination of those.

When inflation conditions are met, the COR inflator sends an electronic signal to the cylinder face and ignites a small explosive charge for a safe, fast and reliable inflation. The patented explosive technology means that cold temperatures – a risk for many systems – are no issue with the COR.

3 seconds rapid inflation

8 meters depth rating

26 meters depth with dive bag

Air to Target

Overwater deployment of the Kraka Jet Board utilizing the Sword Aerial Delivery System provides the end user with an unmatched and previously unattainable maritime capability for rescue, recovery and tactical insertion operations.



Kraka and SWORD Multi-Mission Tandem / Airdrop Barrel System

Designed to support multiple configurations for deployment from many military and commercial cargo aircrafts. The system incorporates a patented lid design that supports aerial deployment.

All efforts and innovation have traditionally been spent on what attaches north or skyward of the load connection point, the parachute system, and rigging.

This barrel system decreases bundle build and packing time, allows on board loading over the objective, has a water-tight container which protects the payload during the impact phases of delivery and can be deployed in all of the required airdrop configurations. It decreases exit and opening shock, preventing injury to the jumper and/or system, and provides a safe, intuitive system that packs and performs the same from exit to impact.



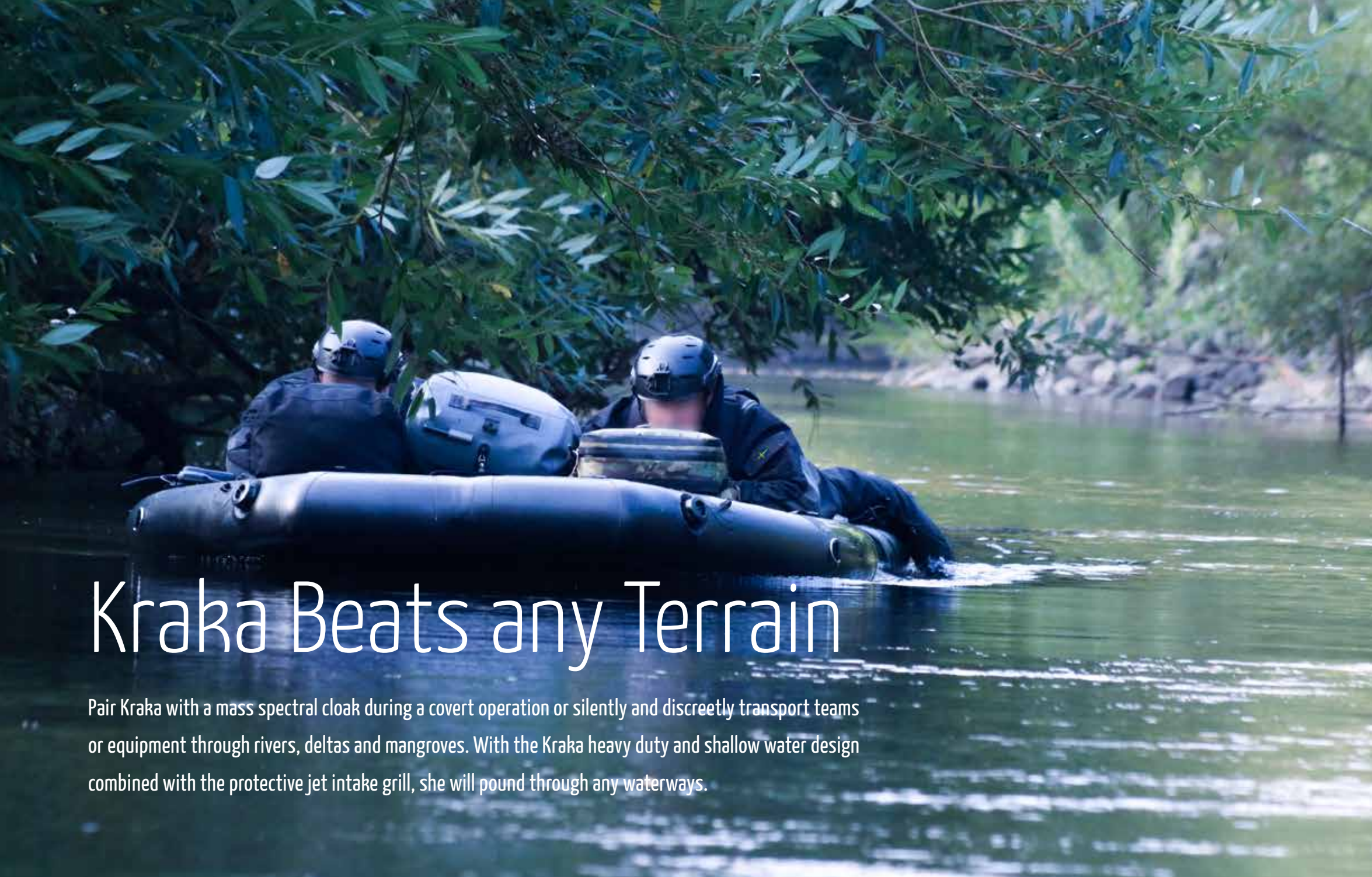
When in water ... simply remove the lid, extract Kraka, pull the manual inflation cord and insert the dead man's grip to fire up the engine. Kraka can also be used as a seaborne, remotely controlled drone.

AIRDROP MANUAL OPERATION

1 minute from touch down in water to take off

6 Beaufort scale wave & wind capability

30 cm draft for operations in shallow waters



Kraka Beats any Terrain

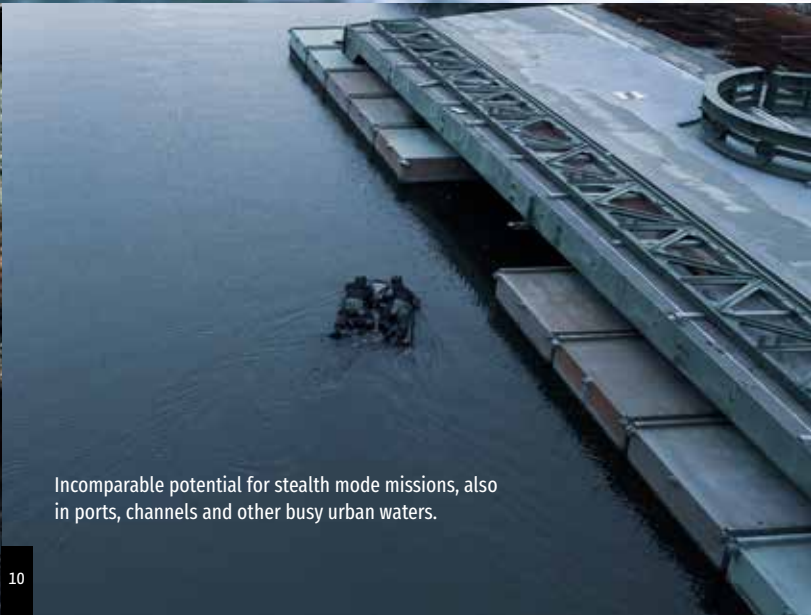
Pair Kraka with a mass spectral cloak during a covert operation or silently and discreetly transport teams or equipment through rivers, deltas and mangroves. With the Kraka heavy duty and shallow water design combined with the protective jet intake grill, she will pound through any waterways.



Insert into waterways for quick transport through cities or use for shock and awe tactics.



Kraka will transport your unit safely and discreetly over shallow and unknown waters.



Incomparable potential for stealth mode missions, also in ports, channels and other busy urban waters.



Means of transportation and a reliable and dry platform for divers, snipers, scouts or boarding operations.



When packed, Kraka is small and easy to carry or transport.

Leave No One Behind

Tow Kraka behind an inflatable or PWC and then power off on your own, as the team or equipment is deployed. This enables multiple entry points, dual powered platforms and a safe extraction of distressed or injured personnel.

Kraka increases any unit's capacity to conduct successful operations in lakes, rivers, deltas, swamps, archipelagos, urban water areas, coastal waters and at sea.

12 nautical miles max range on one battery, can be swapped at sea

40 knots towing speed, varies on operator and sea state

85 kilos total Kraka weight



Three Sizes – Different Areas of Use

KRAKA MIL 250

220 X 122 CENTIMETER, PAYLOAD 250 KILO



KRAKA MIL 400

300 X 140 CENTIMETER, PAYLOAD 400 KILO



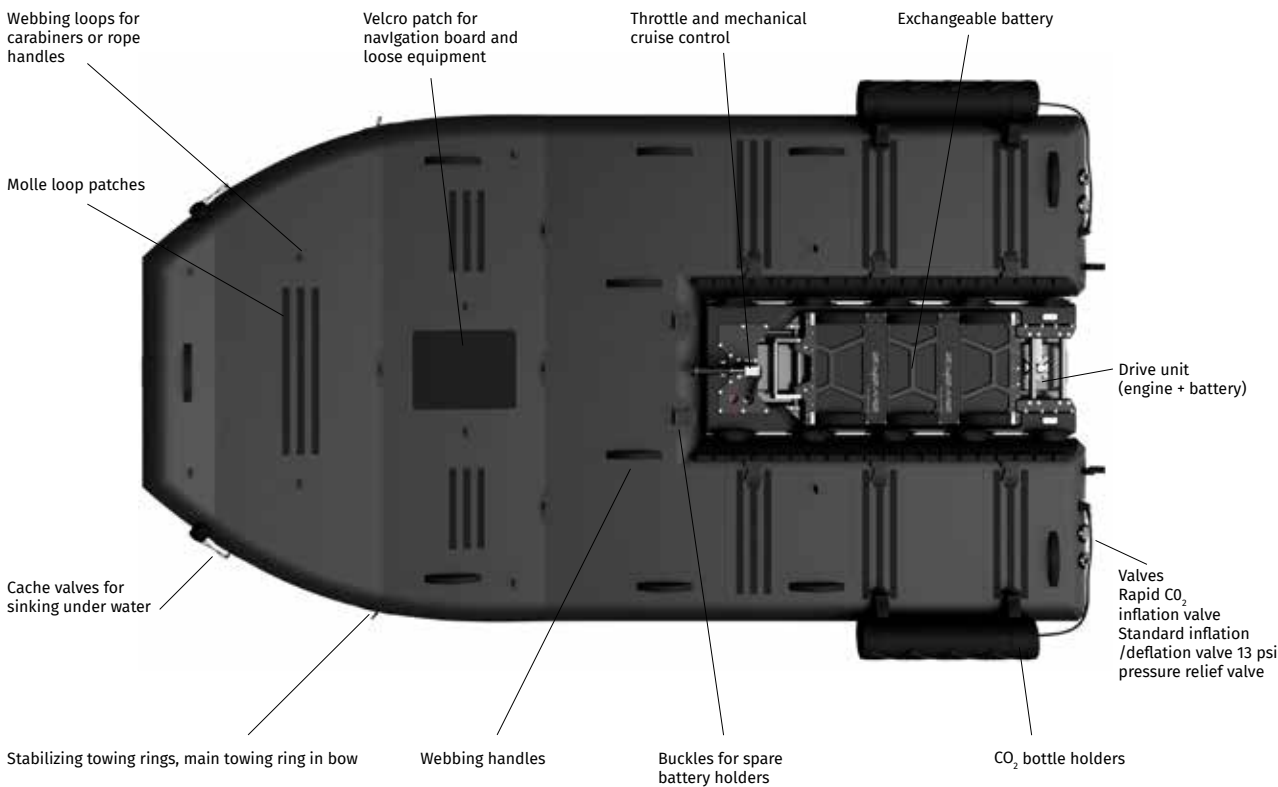
KRAKA MIL 600

340 X 160 CENTIMETER, PAYLOAD 600 KILO

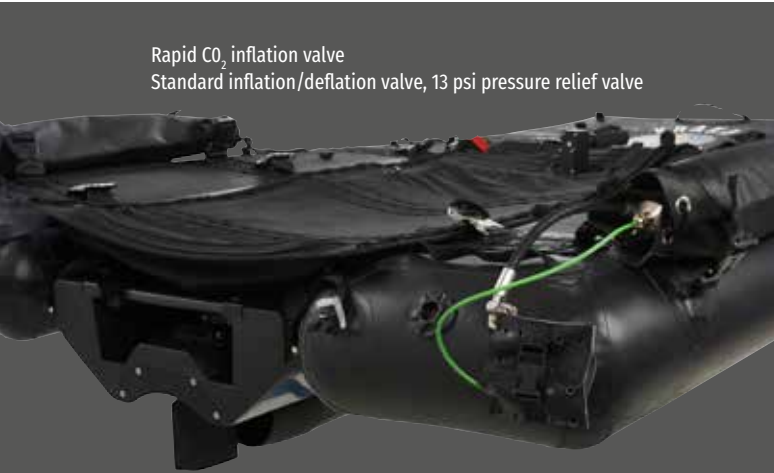


Get your Facts Straight

The board is designed and built to the highest level of detail, qualified for real life military situations when it comes to both capacity and reliability.



This product is customizable and different options are available.



Materials – Swedish Quality

Manufactured using a 20 centimeters thick CSM Hypalon coated dropstitch fabric and reinforced with an additional outer layer of 1500 gsm Hypalon, the topside uses a matt finish to reduce glare.

Kraka is available in the following colours

Black, Military Grey and Army Green.

Service program

Serviced by manufacturer or locally qualified personnel, spare parts included to support normal wear and tear for two years, including software updates.



Simple, Safe and Reliable

KRAKA	MIL 250	MIL 400	MIL 600
FOLDED SIZE w/ drive unit	CENTIMETER	CENTIMETER	CENTIMETER
LENGTH	145	163	160
WIDTH	57	61	53
HEIGHT	30	36	41

DRIVE UNIT SIZE	CENTIMETER	CENTIMETER	CENTIMETER
LENGTH	136	136	136
WIDTH	51	51	51
HEIGHT	32	32	32

INFLATED SIZE w/ drive unit	CENTIMETER	CENTIMETER	CENTIMETER
LENGTH	220	300	340
WIDTH	122	140	160
HEIGHT	38	38	38
DRAFT	25	25	25

BATTERY SIZE	CENTIMETER
LENGTH (EXCL. HANDLE)	80
WIDTH	42
HEIGHT	8,4

WEIGHTS	KILO	KILO	KILO
BOARD	20	30	45
BATTERY		35	
DRIVE UNIT EXCL. BATTERY		30	

DRIVE UNIT DATA	
EMERGENCY BUTTON	Yes
CRUISE CONTROL	Yes
APPROVED FOR AIRFREIGHT	Yes, UN 38.3 certified
USV READY	Yes
BATTERY CHARGING TIME	80 or 160 min
BATTERY RANGE	10 to 25 km on one battery
ENGINE POWER	11 Kw
SERVO STEERING MOTOR	Yes
WIRED THROTTLE	Yes
DOUBLE SAFETY KILL CORD	Yes
SAFETY DEPTH	2 meter standard (8 meter cache)
BATTERY TYPE	Litihium-ion
BATTERY CAPACITY	3.8 kwh

FEATURES	
CACHING	2 or 8 metet
AIRDROP	10 meter
TOP SPEED	16 knots
PAYLOAD	250 kilos 400 kilos 600 kilos
SELF DEPLOY SYSTEM	Yes as option
SERVICE PROGRAM	Yes as option
SPARE PART PROGRAM	Yes as option
MODELS	Air/dive/transport



Drive Unit

Kraka was essentially developed with one key factor in mind: engine reliability. The result, an 11 kW brushless electric motor capable of operating both quietly and at low speeds but at the same time deliver the torque needed to carry heavy loads at speed. A precision-machined impeller and housing parts ensure maximized efficiency. Watertight seals, together with the water the board rides on, eliminates the need for any internal coolants, minimizing maintenance.

Battery Pack

The exchangeable battery pack, consisting of high quality Litihium-ion cell battery, is designed to meet the demanding requirements in critical situations. Can easily be swapped at or under sea and delivers up to 22 kilometers range on one battery, depending on speed, load etcetera. UN certified.

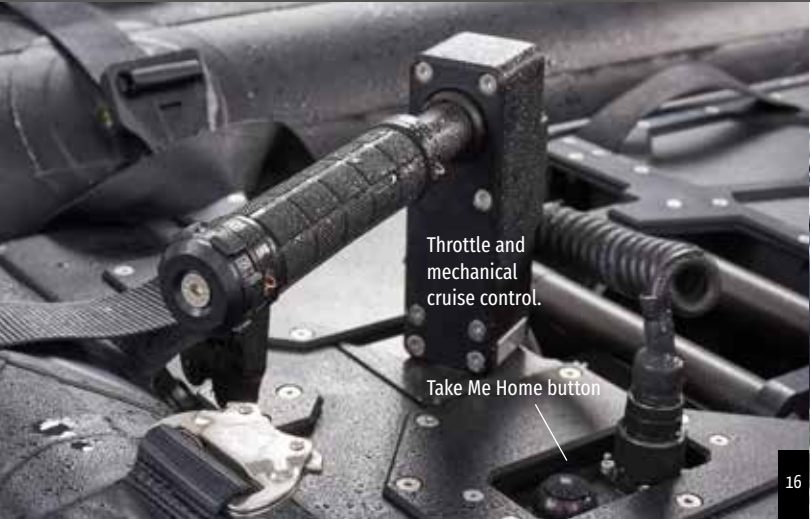
Safety

Kraka has multiple safety sensors throughout the system, including fundamental features such as temperature monitoring.

The magnetically-triggered power key (dead man’s grip function) ensures Kraka can’t speed off on its own, without the operator.

Take Me Home Button

When all else fails there is an emergency button situated near the throttle, pressing this will let you override the software and/or completely drain the batteries to gain the extra range needed for a safe extraction.



Throttle and mechanical cruise control.

Take Me Home button



Battery Pack – can easily be swapped at sea.



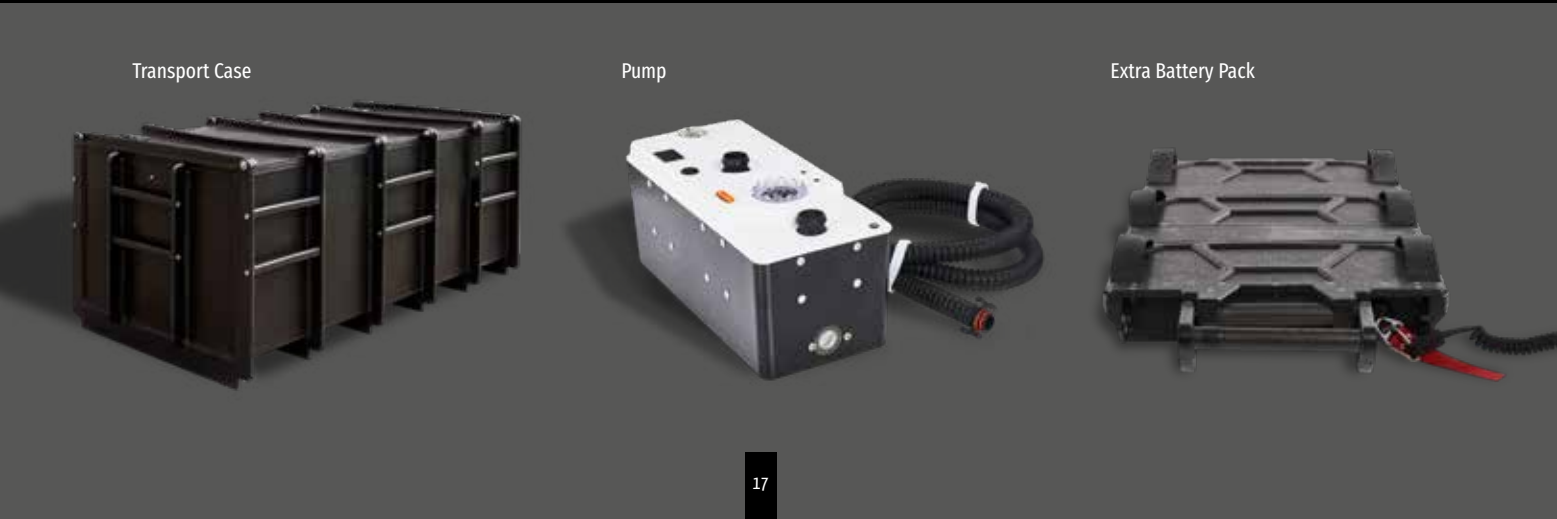
Accessories

KRAKA COMES WITH OPTIAL EXTRA GEAR SUCH AS:
TRANSPORT CASE FOR BOATS AND VEHICLES
CARRYING BAGS
EXTRA BATTERY PACK
DIVE BAG DOWN TO 26 METERS DEPTH
SPARE PARTS FOR ENGINE AND JET
REPAIR KITS
DIVE BOTTLES FOR RAPID INFLATION
PROGRAMMABLE INFLATOR
VALVES AND CONNECTORS FOR DIFFERENT INFLATION SYSTEMS
LAUNCH AND RECOVERY SYSTEM
CAMO SOLUTIONS OVER AND UNDER WATER
BEACON FOR AIRDROPS
PUMPS
AIRDROP SYSTEM
CACHING SYSTEM
TOWING BRIDLE
BATTERY CHARGER

Other accessories available on request



Caching System



Transport Case

Pump

Extra Battery Pack

Sensors

Regardless of the system you need to transport, Kraka is an effective and safe multifunctional platform. Thanks to her ability to uplink and work as a drone, Kraka can monitor and protect any area you don't want to put your men into.

Falcon dynamics, portable and modular gyro-stabilised sensor platform



Kraka and Falcon providing excellent situational awareness and minimising exposure of human personnel.



Transportation of goods



Remote control for UAV platform, recharging, start & landing



Training Programs

To carry out advanced rescue operations and handle hostile situations, when time is short and there's no room for uncertainty, takes a lot of skill. All training for Kraka clients is conducted by world-renowned Spectre Marine, Sweden.

Spectre Marine, part of SOAL Marine Group, trains the best professionals there is at sea within military, governmental and SAR groups all over the world. With over 15 years of experience, our clients vary from Indonesian Kopaska to Icelandic SAR, Norwegian Delta and German special forces. We take pride

in having returning clients and we always put great effort in custom made, flexible solutions to meet every clients unique demand and situation.

Please visit soalmarine.se to see our full range of courses as well as references.

COURSE 1

Familiarization and engineering course, two days. Giving you the skills to use Kraka in the best possible ways for your specific missions.



COURSE 2

Advanced engineering course, two days. Suitable for technical personnel, including Hypalon dropstitch repair training.



COURSE 3

Operational course, tailored for your specific needs. Includes simulated mission training, airdrop, underwater cache, launch & recovery from interceptor, night ops and much more.



An Unrivaled User Experience



Kraka is the very first board of its kind, developed to present an unrivaled user experience. The technology combines sophisticated, hydrodynamic board design from Henshaw, UK, with a high-end Nordic electrical engine from Awake, manufactured in our state-of-the-art production facility in Malmö, Sweden. The board is designed with the highest level of detail, ensuring top quality from a life cycle perspective, qualified for real life situations when it comes to both capacity and reliability. International support is provided through local partners.

www.soalmarine.se

SOAL

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