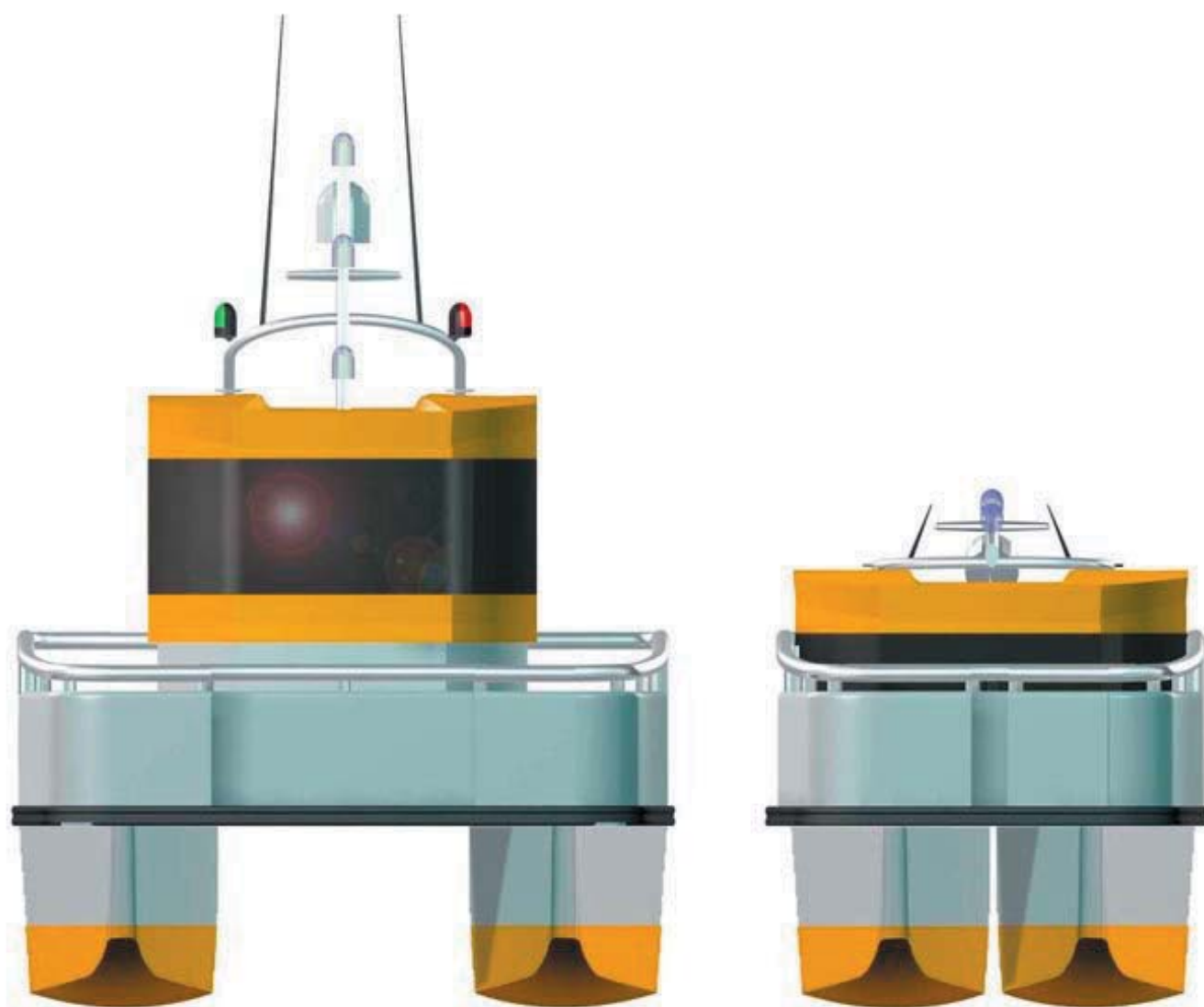




**ConCat containerised Catamaran**

KONGSBERG

## Inshore hydrographic survey vessel that fits in a container



In cooperation with

**Uniteam**<sup>®</sup>  
INTERNATIONAL

### ConCat

ConCat is a fully equipped survey vessel designed to operate in protected waters. Its high-resolution, multi/single beam echo sounders and sidescan sonar are well suited for shallow water seabed surveys. ConCat can operate where other vessels normally dare not navigate and may be stowed in a standard container for economical storage or shipment world-wide.

### Construction

ConCat's rugged, Neptun Workboats design is constructed in Norway using the latest FRP sandwich techniques and materials. The pontoons employ an integrated folding mechanism, which allows the entire vessel to fit into a standard shipping container without them being removed.

### Advantages

The integration of Kongsberg's world class hydrographic equipment and ConCat's clever design provide a survey vessel which may be readily deployed anywhere in the world. Operations may commence minutes after the container is landed at a survey location. Advantages of this unique concept over traditional platforms include:

- Reduced transportation/insurance costs
- Minimal manning requirements
- Short mobilization time
- Reduced logistical support
- Extended geographical area of operation
- Choice of transportation (ship, plane, train or truck)
- Unparalleled vessel and equipment protection
- Reduced down time due to outfitting
- Secure, cost-effective storage (in ConCat's own container which is also available with an integrated office/storage/work space).

### Cost effective

Time is money in any survey operation and employing the best equipment available is the key to the effective collection of solid data. ConCat is delivered as a complete turnkey solution, which can be specifically tailored to fit a variety of shallow water surveying requirements. Factory installed, calibrated and tested Kongsberg Simrad hydrographic survey equipment insures world-class performance at unsurpassed speed.



*ConCat stowed for shipment*

### Easy to operate

ConCat's design, light displacement and ample horsepower make it as easy to operate and manoeuvre as a twin screw pleasure boat of equivalent length. Although certification and safety equipment necessary to operate the vessel will vary according to local maritime regulations, minimal requirements are most likely in the majority of circumstances.

### Maintenance and repair

ConCat's FRP construction is almost maintenance free and requires no special equipment or workshop to maintain or repair should minor damage occur. The skills and materials needed to perform any necessary routine maintenance and/or repair are available world-wide.



*Container with integrated office/storage space*

### Mission flexibility

Minimal draft requirements and uncomplicated transportation logistics make ConCat an ideal survey platform for a variety of inshore coastal and inland hydrographic survey missions. Rugged, twin hulls and water jet propulsion decrease the potential for catastrophic vessel damage should grounding occur. The vessel's intrinsic ample deck space and stability make ConCat both a comfortable and effective survey vessel optimally suited for:

- General inshore coastal surveying
- Estuary, marsh and tidal area surveying
- Harbor, channel and canal surveying
- Survey and inspection of dredging operations
- Inland river and lake surveying
- Environmental investigations
- Pollution control
- Search and rescue
- Law enforcement investigations
- Underwater construction

### Removable instrument trunks

ConCat has specially constructed trunks built into each of its pontoons which are designed to house removable cassettes. These allow transducers, sonar



*Removable cassette (port side, one of two)*

and other traditionally hull mounted equipment to be easily deployed or removed while the vessel is either afloat or on shore. This reduces many of the logistical problems and down time associated with equipment that normally can only be “permanently” installed and/or requires through-hull penetration.

Inspection, repair or exchange of cassette-mounted, underwater equipment is as simple as removing the four bolts securing the respective cassette and pulling it up on deck. If necessary, an individual cassette can be sent ashore and the vessel can continue its mission using either a reserve or dummy in its place. Raising/lowering or azimuth mechanisms can also be built into a trunk without effecting the vessel's watertight integrity or encountering any overhead height restrictions.



*Launching ConCat from a small pier*



## Electronics

Equipment included in the basic delivery:

- EA 400 38/200 and 120 kHz sidelooking sonar
- EM 3000 D
- Seapath 200
- Fugro Trimble and Starfix
- Simrad RA 30, Radar and chart plotter
- Simrad RD 68 H, VHF radio
- Simrad AP22, Autopilot

Equipment options available on request:

- EA 400 38/200 and 200 kHz sidelooking sonar
- EM 3002 D

## Vessel

ConCat specifications:

- Length ..... 9.40 m
- Width ..... 3.70 m
- Draft ..... 0.45 m
- Weight ..... 4.8 MT
- Speed (max) ..... 18 knots
- Main engines (two) ..... 164 Hp (each)
- Gearbox ..... Hurt HSW450D
- Water jets (two) ..... Alamarin 230

ConCat options available on request:

- Refer to [www.concat.no](http://www.concat.no)



*EM 3000 D sonar heads on hoisting arrangement*



*EA 400 38/200 and 120 kHz sidelooking transducers*



*Cassette mounted EM 3000 D, EA 400 38/200 and 120 kHz sidelooking= transducers*

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