Workboats - New Generation

Proven Oil Spill Technology
A world of workboats
- and opportunities

DESMI has since the late 1970’s designed boats for mainly Oil Spill Combat. The first clients were UK based Oil Jetties.

The concept has always been focusing on Catamaran construction as this allowed the Oil Mop Ropes to be mounted between the hulls and create a Zero Velocity Recovery Mode giving long contact time between oil and Mop Ropes.

Besides Oil Spill Recovery the vessel design with large deck area allowed the vessels to be used as general work boats in ports, transport of people and command center when having larger operations. Designed to MCA Category 2 rules allowing operations up to 60 nm from safe haven.

The latest development is the totally containerized KaziCat where containers placed on the deck allow the vessel to handle a large number of tasks including the combating of waste and plastic.

Finally, DESMI has a comprehensive program within aluminum workboats, both landing craft type of boats, but also a 2 tons bollard pull twin inboard engine boat.
DESMI KaziCat

The new work boat concept

Based on the fact that oil spill is not that often an incident, any modern boat has to be versatile. DESMI KaziCat is based on the philosophy that the boat itself is just a platform that can be equipped to handle more or less any task required.

DESMI has developed containers to be placed onboard the KaziCat for handling the following duties:

- Passenger transport – up to 12 people
- Transport of injured people – second row SAR boat
- Transport of larger goods
- Treatment of Ballast Water from other vessels
- Sophisticated decompression diving container
- Firefighting container with foam and remote controlled fire monitor
- Oil Spill Combat
- Floating plastic and garbage collection including compacter for more time on sea
- Normal work boat duties
- Equipped with container for hull cleaning of other vessel
- Scientific vessel equipped with laboratory containers
- Module for inspection of seabed using WASSP multibeam scanner

### Technical Specifications

<table>
<thead>
<tr>
<th>Technical Specifications</th>
<th>Technical Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length overall</td>
<td>24.60 metres</td>
</tr>
<tr>
<td>Length load line</td>
<td>23.95 metres</td>
</tr>
<tr>
<td>Beam overall</td>
<td>9.60 metres</td>
</tr>
<tr>
<td>Depth</td>
<td>3.84 metres</td>
</tr>
<tr>
<td>Draft max</td>
<td>1.75 metres approx</td>
</tr>
<tr>
<td>Work deck area</td>
<td>150.00 sq metres approx.</td>
</tr>
<tr>
<td>Work deck cargo capacity</td>
<td>100 Tonnes approx. (including fuel, stores, consumables)</td>
</tr>
<tr>
<td>Accommodation</td>
<td>Total 5 Crew</td>
</tr>
<tr>
<td>Main engines</td>
<td>2 x 830 bhp marine diesel</td>
</tr>
<tr>
<td>Fuel capacity</td>
<td>15,000 litres</td>
</tr>
<tr>
<td>Speed light</td>
<td>14.0 knots approx.</td>
</tr>
<tr>
<td>Oil recovery speed</td>
<td>Up to 6 knots</td>
</tr>
<tr>
<td>Oil recovery rate</td>
<td>Up to 75 tonnes/hour</td>
</tr>
<tr>
<td>Oil recovery system</td>
<td>Belt Brush via opening between hulls</td>
</tr>
<tr>
<td>Oil transfer pump</td>
<td>40 cubic metres/hour</td>
</tr>
<tr>
<td>Hydraulic crane</td>
<td>Max 10m Reach, 1.5 ton at 4 metre</td>
</tr>
<tr>
<td>Bollard Pull</td>
<td>10 Tonnes</td>
</tr>
<tr>
<td>Classification</td>
<td>MCA, can also be classed</td>
</tr>
</tbody>
</table>
DESMI Ro-Clean have been building and supplying Anti-Pollution Workboats for over 25 years specialising in dynamic oil skimming vessels. Our continuing programme of development linked with our practice of working with our customers to provide vessels tailor-made to their specific requirements supported by our wide range of general oil pollution products has led to the building of workboats capable of many duties.

**Poll-range**

Other sizes and options are available upon request.
Dynamic oil recovery is achieved with the POLLCAT and POLLKITTEN by employing our new Zero Relative Velocity (ZRV) inclined Belt-Brush system between their steel hulls. Oil is then recovered without the need for prior containment by simply driving the boats through the slick while operating the system. POLLKITTENS are suitable for harbour, sheltered terminal and inshore duties being designed specifically to handle the “typical” bunkering size of incident where very rapid response is required and there is little or no time for other counter pollution measures.

POLLCATS can be built to Class if required and are suitable for harbour, coastal and offshore duties. The vessels have a raised wheelhouse to provide better oil vision while releasing even more deck space for equipment. Alternatively accommodation or a workshop can be provided in the space below the bridge deck.

POLLCRAFT are steel mono hull pontoon based workboats with a small wheelhouse forward designed to provide the maximum free or AFT working deck area achievable on small harbour and inshore sized boats for operation with equipment of opportunity. In their standard form they are fitted with hydraulic crane to assist in equipment handling and a recovered oil storage tank.

DESMI Proven Poll Range of Oil Spill Combat boats – used for more than 40 years around the world

• Boom deployment
• Skimmer deployment
• Dispersant application
• Fire fighting
• Oily water reception
• Command centre duties
• Debris recovery
• Towing duties
• General workboat duties
DESMI is concentrating on landing craft type of aluminum boats due to versatility and easy access for equipment placed on the boat. As a standard DESMI is promoting the following sizes:

<table>
<thead>
<tr>
<th>Type of aluminum boat</th>
<th>5.5 meter</th>
<th>7.5 meter</th>
<th>10.0 meter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>5.50 meter</td>
<td>7.50 meter</td>
<td>10.00 meter</td>
</tr>
<tr>
<td>Beam</td>
<td>2.25</td>
<td>2.60</td>
<td>3.17</td>
</tr>
<tr>
<td>Engine</td>
<td>60 bhp Mercury SeaPro range</td>
<td>150 bhp – Mercury Seapro range</td>
<td>2 x 115 bhp – Mercury Seapro range</td>
</tr>
<tr>
<td>Max speed</td>
<td>25 knots</td>
<td>25 knots</td>
<td>25 knots</td>
</tr>
<tr>
<td>Persons onboard</td>
<td>4 persons</td>
<td>6 persons</td>
<td>8 persons</td>
</tr>
<tr>
<td>Range nm</td>
<td>Min 50</td>
<td>Min 50</td>
<td>Min 50</td>
</tr>
<tr>
<td>Fuel tank size</td>
<td>2x25 liter</td>
<td>2x25 liter</td>
<td>100 liter</td>
</tr>
<tr>
<td>Steering</td>
<td>Open steering console with window shield</td>
<td>Open steering console with window shield</td>
<td>Closed wheel house with wiper system</td>
</tr>
<tr>
<td>Lifting arrangement</td>
<td>Optional</td>
<td>Optional</td>
<td>400 kg manual davit</td>
</tr>
<tr>
<td>Payload</td>
<td>1500 kg</td>
<td>2000 kg</td>
<td>3000 kg</td>
</tr>
<tr>
<td>Weight of boat-engine</td>
<td>900kg</td>
<td>1450kg</td>
<td>6500 kg</td>
</tr>
<tr>
<td>Instruments</td>
<td>Compass with light</td>
<td>Compass with light</td>
<td>Compass with light</td>
</tr>
</tbody>
</table>

Optional for this type of vessel. Should be ordered together with vessel:
- Top light on separate poole
- Radar Echo Sounder
- GPS Echo Sounder – together with Radar
- VHF including antenna
- Swimming platform
- Certified lifting sling
Aluminium Workboats

Years of Superior Service and Durability

The landing craft
The landing craft type of aluminum boats is very versatile due to easy access for larger equipment.

Further, it gives a large working deck.

As standard DESMI has the below shown three models. In case of special requirements, DESMI can of course deliver modified versions.

Often will freight cost for boats be quite comprehensive due to not least the width. Our 5.5 meter model can be transported in a standard 20’ container and consequently save a lot of freight cost.

DESMI has of course smaller skimmers to be used from these landing craft type of boats. Making the unit perfect for smaller spill in confined areas like ports. Further all our aluminum boat are delivered with CE marking.

Grafter – working horse
Our Grafter is a true working horse having a bollard pull of 2,000 kp manufactured from AlMg4.5 Mn plating, buttocks and frames with longitudinal stringers of AlSi0.5

The Grafter has the following advantages:
Plating below water: 6 mm
Plating above water: 5 mm
Side- and work deck: 5/7 mm grating plate AlMg3

Standard includes:
Navigation lights
Handheld search light
12V 180 Ah batteries
Lifting sling

Technical data - Grafter:

- Length o.a.: 7.8 meter
- Beam: 3.0 meter
- Draught: 0.8 meter
- Weight: 4,000 kg
- Speed: 15 knots
- Engine: 2 x 114 bhp Deutz DT44
- Fuel tank: 120 liter
- Bollard pull: 2,000 kg/kp
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