










# LAMOR SWIRE ENVIRONMENTAL SOLUTIONS

**OFFSHORE PACKAGE "A" – 1 package in LSES stock**

<b>600m Heavy Duty Boom (HDB 1500 -100m)</b>	
	<ul style="list-style-type: none"> <li>• Air tube and skirt boom</li> <li>• 100m lengths x 1.5m wide (weighs 15kg/m)</li> <li>• Loaded 200m/ deck reel</li> <li>• Segmented</li> <li>• Neoprene construction</li> <li>• Chain ballast and tension member</li> <li>• ASTM universal connectors</li> <li>• Standard system hydraulic power packs, back-up power pack, deck reel, air fan, towing bridles, hose sets, boom repair kit</li> </ul>
<b>1 x Large Brush Skimmer (Freefloating 100 2C)</b>	
	<ul style="list-style-type: none"> <li>• Rated recovery 100 m<sup>3</sup>/hr</li> <li>• Free water collected &lt; 2%</li> <li>• Dimensions l x w x h(m) 2.29 x 2.25 x 1.95, weight 750kg</li> <li>• V-Chain Brush Type Conveyors</li> <li>• Oleophilic and Mechanical action</li> <li>• Recovers full range of black oils</li> <li>• Inbuilt Archimedes screw pump</li> <li>• Hydraulic power pack, hose kits, flat rack for storage of entire assembly</li> </ul>
<b>1 x Floating Bladder 50m<sup>3</sup> capacity (LFT C 50)</b>	
	<ul style="list-style-type: none"> <li>• Nose cone air bladder, capacity 50m<sup>3</sup></li> <li>• Urethane/ PVC blended plastic</li> <li>• All fittings are marine grade aluminium</li> <li>• Discharge via archimedes screw pump (Lamor GTA 50)</li> <li>• Tow harness, light holder, PVC ball valves, air relief valve</li> </ul>
<b>1 x Transfer Pump (GTC 140)</b>	
	<ul style="list-style-type: none"> <li>• Centrifugal screw pumps rated 140m<sup>3</sup>/hr</li> <li>• Useful for tank transfer or offloading applications</li> <li>• Ideal for medium to heavy oils up to 10,000 Cst</li> <li>• Dimensions l x w x h(m) 0.3 x 0.3 x 0.37, weight 30kg</li> <li>• Hose sets</li> </ul>
<b>1 x Transfer Pump (GTA 70)</b>	
	<ul style="list-style-type: none"> <li>• Submersible Archimedes screw pumps</li> <li>• Rated 70m<sup>3</sup>/hr</li> <li>• Useful for tank to tank transfer</li> <li>• Benefits from water / steam annular injection on the inlet</li> <li>• Able to recover all black oils</li> <li>• Hydraulic power pack, hose sets</li> </ul>
<b>Sorbents will also be required</b>	
	<ul style="list-style-type: none"> <li>• LSES can supply a full range of sorbent materials to include; pads, rolls, pillows, single booms, twin booms, sweeps, Pom Poms etc. for final polishing and to reduce secondary contamination</li> </ul>




# LAMOR SWIRE ENVIRONMENTAL SOLUTIONS

**OFFSHORE PACKAGE "B" – 4 packages in LSES stock**

<b>600m Heavy Duty Boom (HDB 1500 -100m)</b>	
	<ul style="list-style-type: none"> <li>• Air tube and skirt boom</li> <li>• 100m lengths x 1.5m wide (weighs 15kg/m)</li> <li>• Loaded 200m/ deck reel</li> <li>• Segmented</li> <li>• Neoprene construction</li> <li>• Chain ballast and tension member</li> <li>• ASTM universal connectors</li> <li>• Standard system hydraulic power packs, back-up power pack, deck reel, air fan, towing bridles, hose sets, boom repair kit</li> </ul>
<b>1 x Multi-Skimmer (LMS/GTA 50)</b>	
	<ul style="list-style-type: none"> <li>• Rated recovery 150m<sup>3</sup>/hr</li> <li>• Free water collected &lt; 5%</li> <li>• Dimensions l x w x h(m) 1.57 x 1.65 x 1.22</li> <li>• Weight with pump 200kg</li> <li>• 3 x brush wheels (disc &amp; drum modules also available)</li> <li>• Oleophilic and Mechanical action</li> <li>• Recovers full range of black oils</li> <li>• Fitted with removeable Archimedes screw pump</li> <li>• Hydraulic power pack, extension hose kit</li> </ul>
<b>1 x Transfer Pump (GTC 140)</b>	
	<ul style="list-style-type: none"> <li>• Centrifugal screw pumps rated 140m<sup>3</sup>/hr</li> <li>• Useful for tank transfer or offloading applications</li> <li>• Ideal for medium to heavy oils up to 10,000 Cst</li> <li>• Dimensions l x w x h(m) 0.3 x 0.3 x 0.37, weight 30kg</li> <li>• Hose sets</li> </ul>
<b>1 x Transfer Pump (GTA 70)</b>	
	<ul style="list-style-type: none"> <li>• Submersible Archimedes screw pumps</li> <li>• Rated 70m<sup>3</sup>/hr</li> <li>• Useful for tank to tank transfer</li> <li>• Benefits from water / steam annular injection on the inlet</li> <li>• Able to recover all black oils</li> <li>• Hydraulic power pack, hose sets</li> </ul>
<b>Offload bulk solution required</b>	
	<ul style="list-style-type: none"> <li>• LSES can supply 50m<sup>3</sup> floating bladders, but a larger offtake solution would be preferable for continuous operations, e.g. offloading barge or tanker</li> </ul>
<b>Sorbents will also be required</b>	
	<ul style="list-style-type: none"> <li>• LSES can supply a full range of sorbent materials to include; pads, rolls, pillows, single booms, twin booms, sweeps, Pom Poms etc. for final polishing and to reduce secondary contamination</li> </ul>

# LAMOR SWIRE ENVIRONMENTAL SOLUTIONS

**OFFSHORE PACKAGE "C" – 2 packages in LSES stock**

<b>200m Heavy Duty Boom (HDB 1500 -100m)</b>	
	<ul style="list-style-type: none"> <li>• Air tube and skirt boom</li> <li>• 100m lengths x 1.5m wide (weighs 15kg/m)</li> <li>• Loaded 200m/ deck reel</li> <li>• Segmented</li> <li>• Neoprene construction</li> <li>• Chain ballast and tension member</li> <li>• ASTM universal connectors</li> <li>• Standard system hydraulic power packs, back-up power pack, deck reel, air fan, towing bridles, hose sets, boom repair kit</li> </ul>
<b>1 x Side Sweep (LSC-5C-2800)</b>	
	<ul style="list-style-type: none"> <li>• Rated recovery 205m<sup>3</sup>/hr</li> <li>• Free water collected &lt; 5%</li> <li>• Dimensions l x w x h(m) 3.25 x 1.35 x 3.06, weight 850kg</li> <li>• Side collector is supplied with an outreach sweep boom, which deflects oil into a ship side mounted brush recovery system</li> <li>• Oleophilic and Mechanical action</li> <li>• Recovers full range of black oils</li> <li>• Archimedes screw pump</li> <li>• Hydraulic power pack, Fassi crane, transfer hose kit, boom winder, skimmer fitting frame, flat rack for storage of entire assembly</li> </ul>
<b>1 x Transfer Pump (GTA 115)</b>	
	<ul style="list-style-type: none"> <li>• Submersible Archimedes screw pumps</li> <li>• Rated 115m<sup>3</sup>/hr</li> <li>• Useful for tank to tank transfer</li> <li>• Benefits from water / steam annular injection on the inlet</li> <li>• Able to recover all black oils</li> <li>• Hydraulic power pack, hose sets</li> </ul>
<b>Offload bulk solution required</b>	
	<ul style="list-style-type: none"> <li>• LSES can supply 50m<sup>3</sup> floating bladders, but a larger offtake solution would be preferable for continuous operations, e.g. offloading barge or tanker</li> </ul>
<b>Sorbents will also be required</b>	
	<ul style="list-style-type: none"> <li>• LSES can supply a full range of sorbent materials to include; pads, rolls, pillows, single booms, twin booms, sweeps, Pom Poms etc. for final polishing and to reduce secondary contamination</li> </ul>