

### Sternmax 10 including screen and lifting frame - 659165



The groundbreaking Sternmax 10 is a high capacity stationary Arctic skimmer designed to separate oil from the drifting ice with a high recovery rate of more than 50 m<sup>3</sup>/h. The 10-brush wheel skimmer system can be equipped for example oil transfer GTA 50 pump for recovered oil off-loading. The skimmer head has an ice and oil separating grate that collect oil with excellent ice handling capabilities in harsh Arctic climatic conditions.

The skimmer head is coupled to a knuckle head crane that can be existing on the vessel on can be quoted separately. The crane deploys the skimmer off the stern of the vessel from its storage cradle. Typical accessories are also Lamor Tilt Arm and Rototilt unit to enable efficient and flexible operation of the skimmer in ice and oil.

As the vessel with ice breaking capabilities crushes the ice, the Sternmax is deployed from the rear of the vessel with the crane. The isolation grate pushes the large pieces of drifting crushed ice under the water, separating the oil and water from ice. The grate can be lifted and tilted to remove ice and debris. The oil is collected by the brush skimmer that separates the oil from the water and transfers the oil into a hopper equipped with the GTA pump(s).

The skimmer head is winterized with a hot water/steam injection which allows the screen, hopper, brush scraper and pump pre-heating prior to deployment. This also keeps them warm and provides lubrication to support the flow of oil back to the vessel.

The Sternmax 10 is a robust and durable vessel mounted, hydraulically driven system that utilizes Lamor's proven technology to enable successful Arctic oil spill response operations. The Sternmax 10 is Ex-Zone 2 classified.



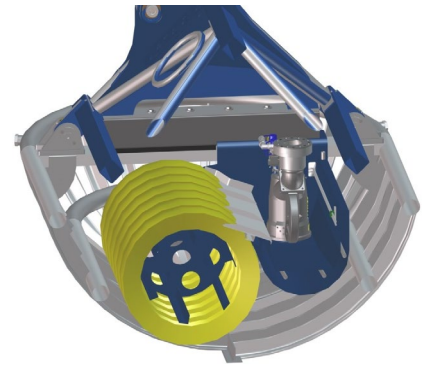
Sternmax 10 Skimmer connected to a vessel crane and equipped with additional tilt arm and Rototilt for the Skimmer head control.

The system is stored on a support cradle on the dedicated vessel allowing easy maintenance and de-icing.



The innovative placement of the Sternmax on the vessel allows normal functions without the hindrances and complications that other vessel mounted systems can cause, and protects the equipment from abrasion and weather damage.

The whole system can be operated by one person from the vessel creating a safe and efficient oil spill recovery environment. The Sternmax minimizes the use of resources and man power, while providing ultimate control, combined with ice and oil handling and separation techniques that make this skimmer system a perfect solution for reliability, dependability, productivity, and cost effectiveness in Arctic conditions.



Skimmer head assembled on a fixed A-frame.

**TECHNICAL SPECIFICATIONS**

**BENEFITS**

<ul style="list-style-type: none"> <li>• Excellent crushed and drifting ice handling capabilities</li> <li>• Max. ice thickness 1.1 m (43.3 in)</li> <li>• Ice, water and oil separation</li> <li>• Hot water/steam injection</li> <li>• Steam heated isolation grate</li> <li>• Crane mounted maneuverable system</li> <li>• 10 stiff brush wheel system</li> <li>• Storage cradle for easy maintenance, cleaning and de-icing</li> <li>• Positive Displacement Archimedes screw pump</li> <li>• Removable isolation grate for non-Arctic operations</li> <li>• Remote control Ex Zone 2</li> <li>• Single operator</li> </ul>		14.3 ft
		6.2 ft
		2.6 ft
		6.7 ft
		3,090 lbs
		5,290 lbs
		3,200 gpm
		42.2 gpm
Hydraulic pressure	210 bar	3,047 PSI
Power	ca. 56 kW	ca. 75 hp
Operational reach	depending on the crane used	