GTA Pump Series

Your preferred partner on the journey towards a cleaner tomorrow

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Introduction

Reliable by design

Discover the power of ancient innovation with modern reliability. The archimedes screw pump, an invention dating back over 2,000 years, continues to excel in today's industries. Its ability to handle high viscosity fluids and large pressure changes with ease makes it indispensable.

Introducing the Lamor GTA Pump Series

Our GTA Pump series are high-performance, hydraulically driven submersible positive displacement archimedes screw pumps suitable for oil spill response operations.

Certified by Bureau Veritas, these pumps excel in various oil viscosities, ensuring top-notch performance.

Suitable for many needs

Even though they were originally developed for oil spill response and for primary oil transfer pumping duties, the versatility of GTA pumps allows them to be used for many other applications.

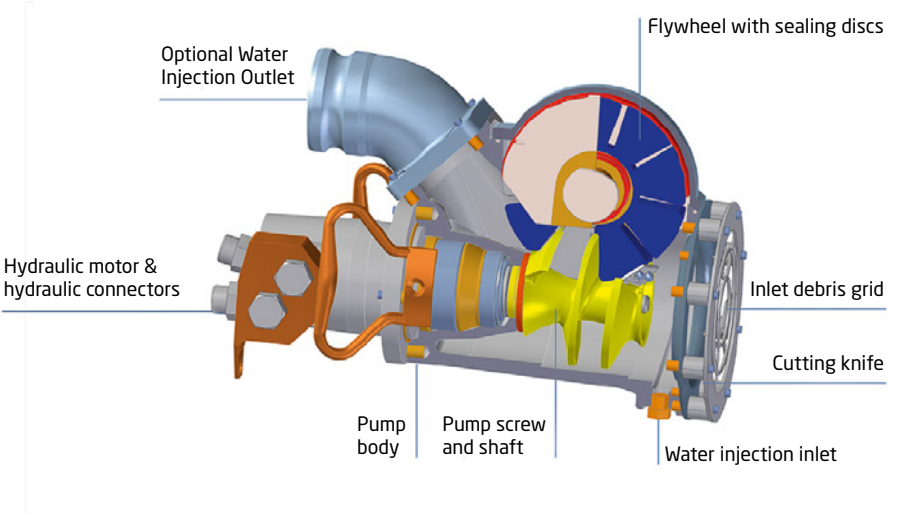
The GTA pumps handle any liquids ranging from water to the heaviest, debris-laden, very viscous oils such as bitumen.

Outstanding technical performance

The unique internal geometry of the GTA pump ensures gentle pumping action, preventing emulsification and ensuring efficient fluid movement.

The smooth operation and easy flow control also reduce cavitation for a constant flow.

GTA PUMP STRUCTURE



Enhanced Efficiency with built-in functions

The efficiency of the GTA pumps can be increased by utilizing the unique built-in annular water injection (AWI) flange at the pump inlet. Cold or hot water, even steam, can be used with these injection inlets and injection flanges. AWI allows the GTA pumps to work efficiently, especially with higher viscosity fluids like crude oil and bitumen and reduces the friction in the discharge hoses for pumping longer distances and higher elevations.

Customizable and durable

An optional second injection flange on the discharge side of the pumps further enhances the reduction of friction in the discharge hoses. This makes pumping high viscous oils over long distances more effective and decreases the pressure in the oil transfer hoses thus making operations safer. The standard connection is a camlock connector but other connectors or flanges of different sizes are possible to modify to match specific needs.

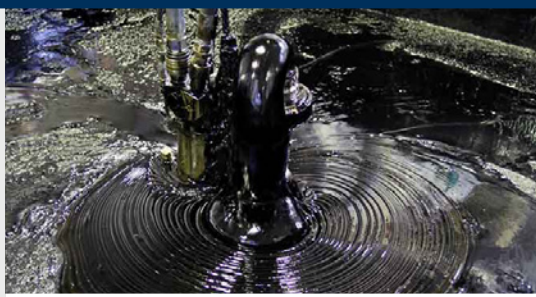
The pump is designed for easy maintenance, allowing for quick replacement of parts when needed even in the field.

Pump any liquid, even laden with debris

The GTA pumps are equipped with a debris grid and a strong cutting knife fitted on the inlet. This allows pumping liquids with impurities without getting clogged.

Solids up to Ø 30mm (1.18in) pass through the pump.

Any blockage can be expelled without human intervention by simply reversing the pump.



The best fit for any pumping environment

Lamor's GTA pumps come in three variants, each with a wide range of pumping capacities and optimized for a wide range of operational conditions.

- GTA pumps feature a lightweight aluminum casing for easy handling, especially on floating structures, providing an ideal balance between performance and weight.
- GTA SS (Stainless Steel) versions provide extra longevity in highly corrosive environments.
- GTA ATEX versions are for pumping liquids with unknown characteristics, even in challenging operational conditions and environments where ATEX certification is required.

Technical Specifications

Technical specifications are for the GTA Archimedes pump, the SS and ATEX versions vary slightly.

	GTA 20	GTA 30	GTA 50	GTA 70	GTA 115	GTA 140
Length	300 mm / 12 in	300mm / 12 in	400 mm / 16 in	400 mm / 16 in	500 mm / 20 in	500 mm / 20 in
Width	195 mm / 8 in	195 mm / 8 in	250 mm / 10 in	250 mm / 10 in	300 mm / 11 in	300 mm / 11 in
Height	435 mm / 17 in	435 mm / 17 in	500 mm / 20 in	500 mm / 20 in	598 mm / 24 in	598 mm / 24 in
Weight	25 kg / 55 lbs	26 kg / 57 lbs	49 kg / 108 lbs	47 kg / 104 lbs	71 kg / 157 lbs	71 kg / 157 lbs
Manhole diameter	300 mm / 11.8 in	300 mm / 11.8 in	400 mm / 16 in	400 mm / 16 in	520 mm / 21 in	520 mm / 21 in
Solid handling	25 mm / 1 in	25 mm / 1 in	30 mm / 1.18 in	30 mm / 1.18 in	30 mm / 1.18 in	30 mm / 1.18 in
Certified capacity	21 m^3/h / 92 gal/min	31 m^3/h / 136 gal/min	61 m^3/h / 268 gal/min	84 m^3/h / 369 gal/min	119 m^3/h / 524 gal/min	142 m^3/h / 625 gal/min
Certified discharge pressure	14 bar / 203 psi	14 bar / 203 psi	14 bar / 203 psi	10 bar / 145 psi	12 bar / 174 psi	10 bar / 145 psi
Hydraulic flow (max)	80 l/min / 21 gpm	75 l/min / 20 gpm	160 l/min / 42 gpm	92 l/min / 24 gpm	160 l/min / 42 gpm	160 l/min / 42 gpm
Hydraulic pressure (max)	210 bar / 3045 psi	210 bar / 3045 psi	210 bar / 3045 psi	210 bar / 3045 psi	210 bar / 3045 psi	210 bar / 3045 psi

The high-torque hydraulic motors make the pumps extremely efficient. Pump models and capacities vary from 21 m^3/h to 142 m^3/h (88-616 gpm) and operate in temperatures ranging from -20 to +60°C (-4 to 140°F), reaching up to 14 bar outlet pressure.

Scenarios of use

- Stand alone pump for pumping oil (light to medium)
- Pump for integrating into variety of oil-skimmers
- Pump for integrating into vessel oil tank (OSR purpose)

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Let's clean the world

Lamor in brief

Lamor is one of the world's leading providers of environmental solutions. For four decades, we have worked to clean up and prevent environmental incidents on land and at sea.

Environmental protection, soil remediation and material recycling: Our innovative technologies, services and tailored solutions, ranging from oil spill response, waste management and water treatment to soil remediation and plastic recycling, benefit customers and environments all over the world.

We are capable of vast and fast operations thanks to our connected ecosystem of local partners, steered by our experts. Lamor's share is listed on the Nasdaq Helsinki (ticker: LAMOR). Further information: www.lamor.com

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