

~ SEA JET ~

*Large Load Management Tool
Safe Drilling Enhancement*





Deepwell Sea Jet System

A Large Load Management Tool

Safely Delivering Seawater to Your Offshore Rig

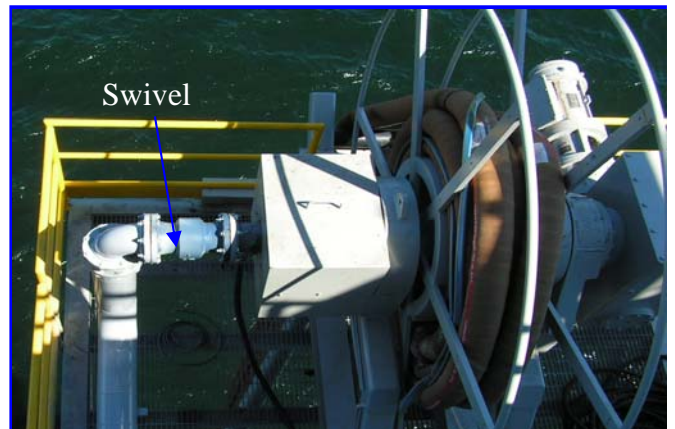
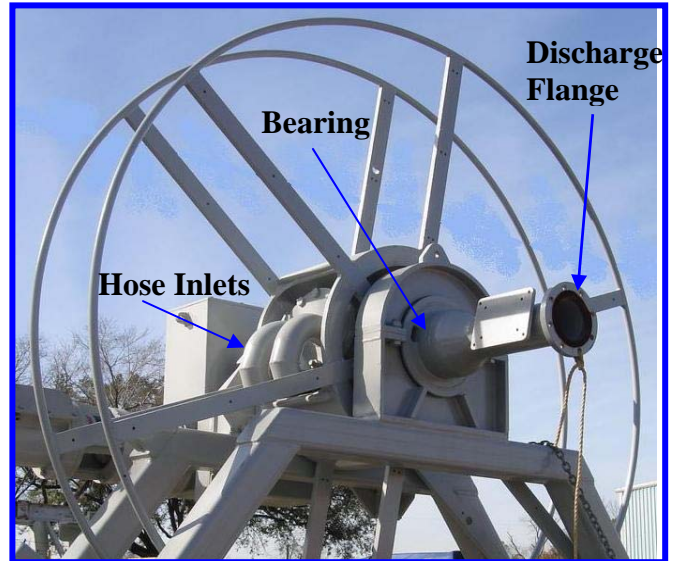
SEA TECHNOLOGY, Ltd.

A division of Alexander/Ryan Marine & Safety Co.

Features & Benefits

- **SAFE:** Allows safe deployment and extraction of submersible deep well pumps.
- **ONE-MAN OPERATION:** Easy to use and quick infield maintenance.
- **PLUG & PLAY:** Modular design makes switching out components quick and easy.
- **LOAD REDUCTION:** Significantly lighter than any other sea delivery system on the market.
- **VDL's:** Increased Variable Deck Load capacity by removing heavy standard towers or piping.
- **SAVES SPACE:** Much smaller footprint than any other delivery system.
- **EASY MAINTENANCE:** Replaces high maintenance and heavier water delivery towers.
- **EFFECTIVE:** Seawater delivery pump rates can be designed to easily attain 2,000 gpm.
- **DURABLE:** Designed to withstand the harsh seawater environment.

ABS TYPE APPROVED



System Description

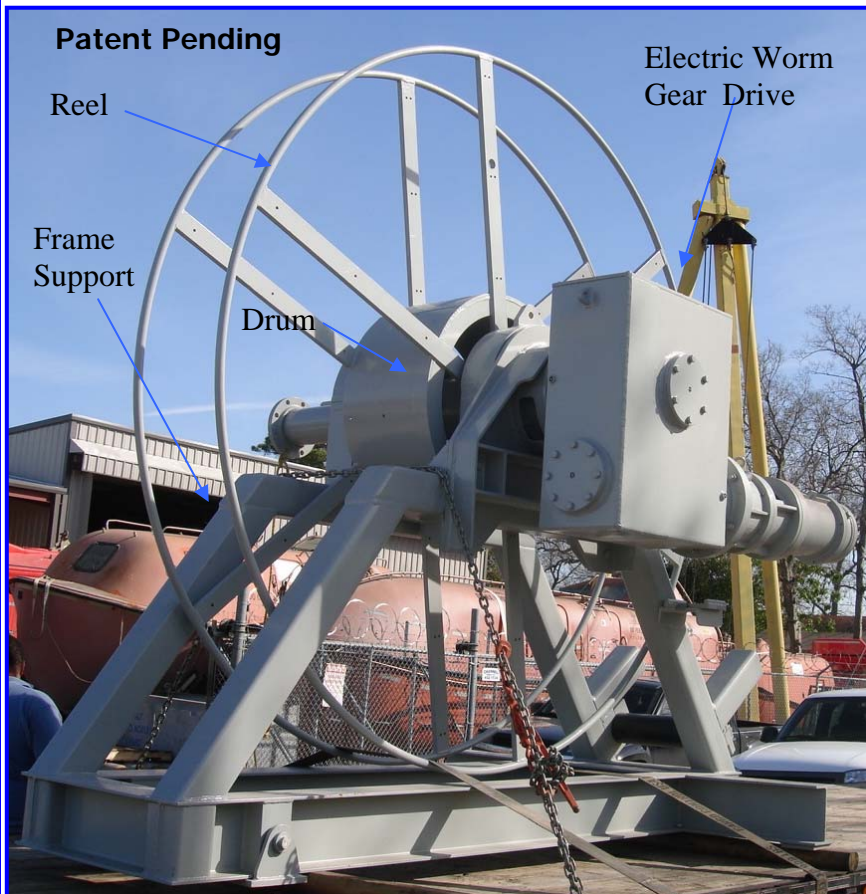
The **Sea Jet** is a new seawater delivery tool designed to eliminate the hazards and inefficiencies associated with current delivery systems. This lightweight system utilizes technologies from other industries to minimize weight and space consumption. Seawater is delivered to offshore elevated structures through a unique compact flexible conduit deployed from a streamlined reeling system. The pump is plugged into the feeding end of the conduit, lowered into the water by the delivery reel and powered with electric rig power. The conduit is a specially designed fire resistant bundle incorporating supporting cables and electrical cable. A cover designed to withstand harsh conditions, abrasions and heat, protects the conduit bundle. Every metal part of the Sea Jet in the water is constructed of stainless steel. The reeling system is easily operated by one worker and is mounted on the side of the deck or existing tower entry for easy installation and maintenance. Each reel and conduit system weighs only 4 tons with a small footprint of 7-ft (W) x 11-ft (L). Installation is simple and seldom requires manufacturer assistance.

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A Large Load Management Tool

System Overview

- Delivery**.....Sea Jet system delivers seawater with deepwell pumps ranging from 60hp to 125hp. Delivery capacity will depend on pump size and elevation (air gap).
- Unit Size**Compact 7-ft (width) x 11-ft (length) per reel.
- Unit Weight**8000 lbs per reel with hose.
- Reel**.....Reinforced drum holds a double row of hose totaling 9 ft diameter when spooled.
- Hose**.....High strength, dual 4" hose bundle with flexible shielding cover and high strength support cable connected to two 4" high strength non-collapsing hoses. Conduit bundled with plug and play features.
- Driver**.....Electric worm gear with designed gear reducer provides 18,500 ft-lbs running torque.
- Hoisting Speed**Pump is retrieved at a safe speed of 30 ft per minute.
- Brake**.....Safe electro-mechanical with additional manual parking locks.
- Control Panel**.....(Optional) Controls with indicator lights in a stainless steel NEMA 4 box to operate deepwell pump and reel. Safety includes warning lights, emergency stop, and electrical disconnect door latch.



SEA JET



Hose Bundle Deployed



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Equipment Specifications

Motor Drive

- 13 hp electric motor.
- 460V / 60Hz / 3 Phase / Rated Current 23.3A
- Stall Torque = 32,200 ft-lbs
- Starting Torque = 25,550 ft-lbs

Motor Control

- Electrical controller for reel motor drive inside Control Panel. Pump hp will determine the size of the control panel.

Gear Reducer

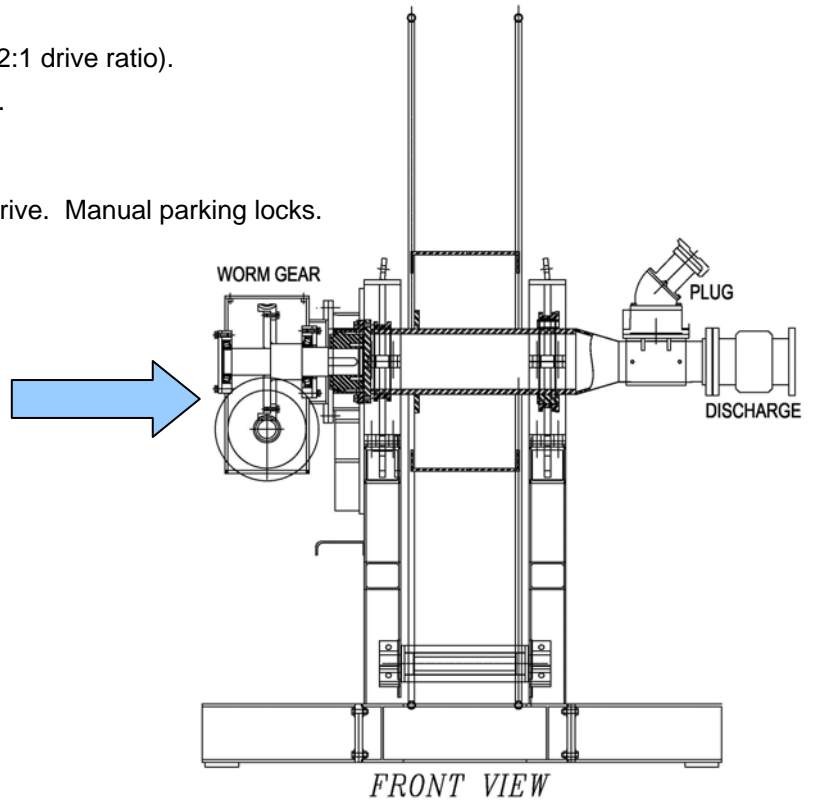
- Right angle gear reducer (72:1 drive ratio).
- 18,500 ft-lbs running torque.

Brake & Drive

- Worm gear prevents back drive. Manual parking locks.



WORM GEAR DRIVE



Hose Bundle

- Flexible shielding cover and high strength safety cable.
- Dual 4" ID x 140 ft high strength OS&D hoses, 250 psi WP, 1,000 psi minimum burst and individual hydrostatic test certificate.
- Hose material made of a nitrile tube consisting of multiple fabric plies and helical wire with an extra thick ozone and abrasion resistant neoprene jacket. Jacket material has Lloyd's Register fire test certification approved for choke and kill lines.
- Conduit bundled with plug and play features.
- 4" SS Victaulic nipples and 4" SS flanges permanently swaged on each end.