GREGG MARINE LLC

BUMBLEBEE

Overview

Gregg Marine has designed a light-weight and portable remotely operated tracked vehicle capable of pushing a 5cm^2 cone. Utilizing a coiled rod system, the Bumblebee can achieve a 30m continuous push. The entire system is remotely operated via line of sight up to 2-miles from the operator and control unit.

Advantanges

The Bumblebee is specifically designed for environmentally sensitive wetlands, sand bars and shore-break areas. The small footprint and remote operation ensure the lowest possible impact to the environment and sensitive species and habitats.

BENEFITS:

- Small footprint and remote operation ensure lowest possible impact on environmentally sensitive habitats
- Designed for beaches, sand bars, shore breaks and wetlands
- Easy to mobilize and maneuver
- Tools and technology developed in-house to effectively work together (CPT, software, robotics)

Questions? Contact Kelly Cabal
kcabal@greggdrilling.com
Tel: 949-903-6873
www.greggdrilling.com

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Specifications

Operation and launch off-shore	Handled remote control console, day time operations
Handling range	Line of site to 2-miles depending on options
Power/Hydraulics	CAT C4.4 Turbo Diesel Engine
	111.3hp with 308 lb-ft powering a 75cc Danfoss pump
Cone Size and Options	$5cm^2$ cone
Measured Parameters	Depth, q_c, f_s, u
Weight of System	Approximately 6,000lbs (2727kg) without weights
Cone Push Capacity	Up to 9, 600lbs (43600kg)
Depth Capability	30m
Dimensions	7.5ft (2.28m) high x 6ft (1.83m) wide, 9.5ft (2.9m) long
Maximum Landing Slope	Controlled leveling ideal range 0-12 degrees

Coiled Rod Handling

Similar to the Seebee unit, the Bumblebee utilizes coiled tubing to achieve a continuous push with no rod handling, rod stack-up or a large tower attachment. The tubing used is advanced through the thruster and clamping unit where it is straightened and pushed into the seafloor/ground at the constant rate of 2cm/second. Each coil can handle up to 60 individual CPT pushes before being replaced.