

Product and Performance News

BOSKALIS ACQUIRES GARDLINE

Royal Boskalis Westminster N.V. has acquired all shares of the Gardline Group (Gardline), a UK based company focused on marine geophysical surveys, offshore geotechnical services and environmental surveys.

The acquisition includes Gardline's 15 survey vessels, as well as crew transfer vessels and survey catamarans. Boskalis now has a new position in the offshore survey market as a specialist provider of subsea geotechnical surveys. This gives the company entrance to the renewables market and the early cyclical oil and gas market and strengthens its position as a marine service provider in Northwest Europe.

Established in 1969, Gardline employs approximately 750 employees in its offices in the UK, USA, Brazil and Singapore.

TRIMBLE WELCOMES MEASUTRONICS AS PARTNER

Measutronics is a new Trimble Advanced Marine Partner. The partnership will integrate the companies' hardware and software for marine construction applications.

Measutronics will offer Trimble Marine Construction software for 3D visualization applications, which when combined with 2D or 3D sonar, provide clear underwater vision in most conditions. The companies can further combine resources for mechanical and hydraulic dredging, marine piling, SONAR scans, bathymetric surveys and site telemetry solutions. The

technicians at Measutronics are also trained to integrate positioning, motion, communication, software and echo sounder data from third party components.

As a certified Trimble Service Center, Measutronics offers customers instruction on hardware and software taught by its Trimble certified technicians.

Outside of their partnership, Measutronics sells, installs, and integrates equipment from leading manufacturers, provides underwater mapping and imaging and remotely operated vehicles. Trimble provides hardware and software that can be integrated into third-party systems to meet the unique needs of marine construction projects.

ECTMARINE SUPPLIES EQUIPMENT PACKAGE FOR NEW CUTTER SUCTION DREDGE; COMPANY RELEASES DREDGE CALCULATION SOFTWARE

ECTMarine is providing a design and equipment package for a new cutter suction dredge being built at Timblo Shipyards in Goa, India.

The package is based on ECTMarine Core Dredge 40, which includes dredge control and monitoring systems, cutter ladder front part, pump drive and hydraulic system, plus other customized features required by the customer.

ECTMarine has also developed a comprehensive online dredge calculation software, which allows users to input features and specifics they require in a dredge, such as power, pipe diameters,

fuel consumption and cutter power. The software then turns out a selection of ECTMarine dredges, as well as a comparison with other dredges, which would meet the user's requirements. The comparison is based on specifications, total cost of ownership, operation cost and vessel value as recorded in Ciria calculations.

The dredge calculator is accessible to anyone at ECTMarine.com.



Rendering of a cutter suction dredge, with a design and equipment package from ECTMarine and built at Timblo Shipyards in Goa, India.

DSC PROVIDES DREDGES WITH TIER 4 CERTIFIED CATERPILLAR ENGINES

In February 2017, DSC Dredge, LLC of Reserve, Louisiana, delivered its first dredges, equipped with a Tier 4 Final C32 ACERT Caterpillar engine to a U.S. mineral company.

This Shark Class Dredge features an 18-inch hull-mounted dredge pump and 300 hp cutter drive assembly, and has a dredging depth capability of 56 feet. DSC supplied stainless steel hydraulic fittings and used anti-corrosion building practices, as the dredge will be working in a corrosive environment. The minerals company also purchased an anchor barge fabricated by DSC, which included a Tier 4 Final engine for the hydraulic winch drive system.

The U.S. Environmental Protection Agency (EPA) Tier 4 Final emissions standards went into effect for dredges last year. Engines ranging from 2,682 to 4,962 hp (2,000-3,700 kW) were first affected by the standards. But by this October (2017), all new engines with a maximum power of 804 hp (600 kW) and greater must meet U.S. EPA Tier 4 Final emission standards.

The C32 Tier 4 Final engine is a 32-liter 12-cylinder V-engine with horsepower ranges from 1,000 hp to 1,125 hp. The C32 has torque of 4,056 foot-pounds at 1,200 rpm. David Ezell, OEM



DSC Dredge Shark Class Dredge with first ever Tier 4 Final C32 ACERT Caterpillar engine.

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