

Marine Applications



MARINE Shipyard | BAE Systems, Edinburgh - SCOTLAND







PRODUCTS

- n.30 Sinus Penta 0034 4T BA2K5 IP54
- PID Control of 30kw Fan Unit
- Unit provides fume extraction for 1-6 welders

Marine Industry | Under Constraction in Singapore Loenne Partnership





Marine Industry | Under Constraction in Singapore Loenne Partnership





This new vessel will be the most advanced and efficient harsh environment accommodation vessel in the world and will be constructed to comply with Norwegian regulations. The Safe Boreas will be ready for operations in the North Sea in 2015.

5 systems with 2x230kW inverter, 690V.

Marine Industry | Under Constraction in Singapore Loenne Partnership







Rebranding Contract

Port of Ancona | Ancona – Italy

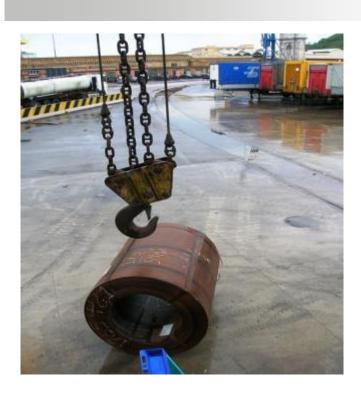


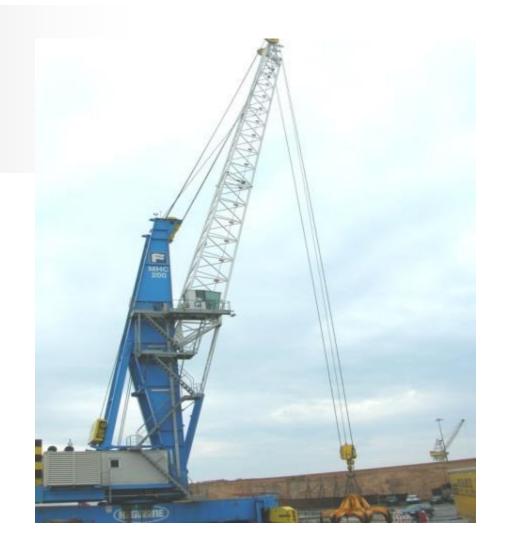
Industrial Sector: Marine Industry

Application: Cranes

Connection date: 2011

Products: Sinus Penta





Marine Industry | Stretto di Messina - Italy





Marine Industry | Stretto di Messina - Italy



Application: Tidal Turbine Kobold

Customer: Porto di Archimede SpA

Products: Sinus Penta RGN

Key Notes:

The *Kobold* turbine is a vertical-axis hydraulic turbine with independent blades, for optimum exploitation of sea currents.

The turbine rotates at variable speed. Since 2006 the plant has been connected to the national distribution grid, so the energy produced is conditioned by an inverter-rectifier system supplying 3-phase 380V, 50 Hz current compatible with the applicable grid codes.

The plant is approx. 80 kW at 3m/s rated and currently produces 25kW max. power.



Marine Industry | CMT Winches - MC -Italy





Quadro comando verricello (Cabestano) navale certificato da RINA. Inverter Sinus Penta 0074 4T BA2K2







Application: PUMP & Submersible Pumps

Connection date: 2012

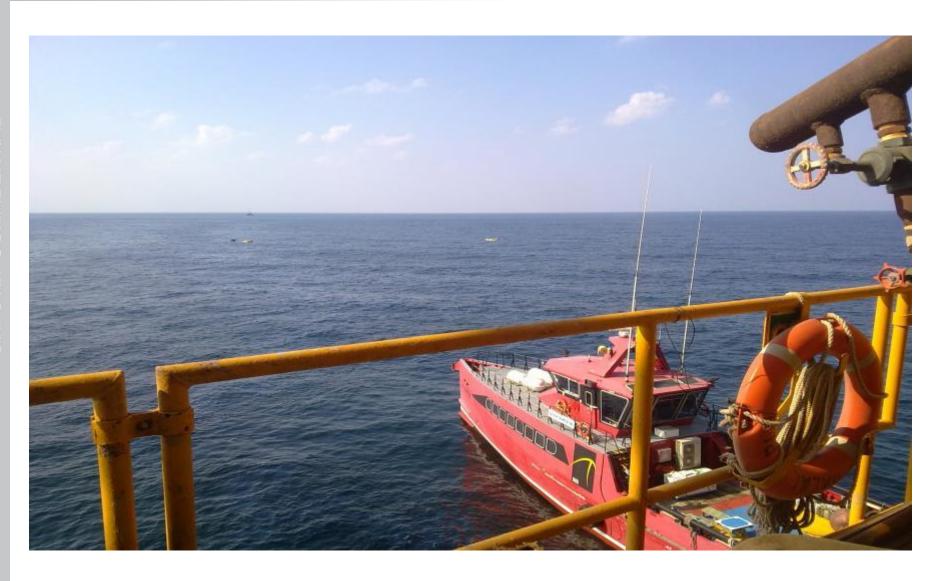
Customer: Balal offshore oil platform

Inverters: AC DRIVE SINUS PENTA 132Kw











Application: PUMP & Submersible Pumps

Connection date: 2012 Customer: Salman

offshore oil platform

Inverters: AC Drive PENTA 30 kW





Marine Industry | Xiabaishi Fujian Province - China



Industrial Sector: Marine Industry

Application: Cranes

Connection date: 2009

Products: Sinus Penta RGN

Type: Drive + RGN

Key Notes:

The machine trough block and tackle, lift, move and drop, the entire process can regenerate energy.





Marine Industry | Dongying - China





Marine Industry | Dongying - China



Application: Electric Submersible Pump

Connection date: 2012

Customer: Victory Oil Field

Inverters: Sinus Penta 0062 6T





Marine Industry | Oil Terminal – St. Petersburgh





Marine Industry | Oil Terminal – St. Petersburgh



Application: Pumps

Connection date: 2010

Customer: CJSC "Electropromcomplect"

Inverters: Sinus Penta 0831 Cabinet RGN.

USPs/Key Notes: Saint Petersburg, sea port. Installation by 1 set of 4 pumps pumping oil products from railway tank to container or to the tanker or vice versa. This set is being managed by 5 Inverters: 4 working and 1 as reserve. Santerno inverter was installed instead of a broken Siemens Cabinet.







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