

# Case study 629

## Major infrastructure project assisted

Due to open in 2016, the Queensferry Crossing has been designed to improve transport links in the cross-Forth corridor and reduce traffic on the nearby Forth Bridge. This 1.7 mile structure will be the world's longest three-tower cable-stayed bridge once erected, and is estimated to have cost the Scottish Government approximately £1.4 billion.

For this particular assignment, it was necessary for the contractor in charge to ballast a barge to enable engineered components to be driven on board. These heavy modules are loaded on to the freight boat two at a time as part of a prolonged construction process. This phase is expected to take around 12 months to complete, with more than 120 separate sections to be moved in total.

Sykes Pumps worked alongside the customer to collate the required pumping equipment, which was delivered on the exact dates that had initially been set. A team of four technicians were sent to site to oversee installation, completed in the presence of a specialist ballast engineer. The original hire package comprised of 25 x GP150M units, with another 15 of the same model due to be used later in the project.

Our regular involvement with float-out jobs has seen us work on several high-profile developments nationwide, including this one in Scotland. As such, Sykes Pumps were entrusted with providing a convenient and cost-effective solution by one of the UK's most recognisable heavy lifting companies, who were extremely complimentary about the service provided.



Performance Max head: 38m, Max flow: 90 l/s, Max solid: 52mm  
Weight 1238kg with fuel, 1133kg without fuel  
Dimensions (mm) 2100 x 1500 x 1635  
Noise level @1m = 94-98 dBA, @7m = 77-82 dBA  
Fuel tank capacity 122 litres  
Pipe connections Suction: 6" table D, Discharge: 6" table D, Bauer couplings option: 6"  
Energy Efficient duty point Fuel consumption @ 1500 rpm: 4.08 litres/h

