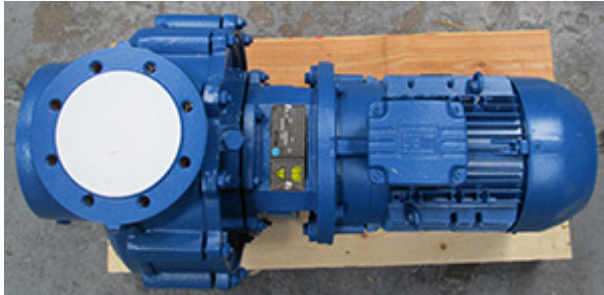




Marine Dredging - Case Study



Case Study Information

Customer	Marine Dredging Company
Location	United Kingdom

Equipment Supplied:

1 x Bombas Azcue Self Priming Centrifugal Pump - For Sea Water containing Sand

Model	CA-100-50
Type	Monobloc Centrifugal Self-Priming Horizontal Pump
Fluid	Sea Water containing Sand
Flow	75 m ³ /h
Total Head	5m
NPSHr	2.94m
Power	125/100mm
Voltage	Bronze
Frequency	Bronze
RPM	Stainless steel
Execution	Mechanical
Seal	400v, 3 Phase, 50Hz
S/discharge	4kW
Pump Casing	1450 RPM
Impeller	Bronze
Shaft	Stainless Steel
Closed Impeller (10% Maximum Sand Content)	
SiC/SiC Hard Faced Mechanical Seal	

Enquiry:

- ✓ We received an enquiry from a Marine Dredging Company that required a self-priming centrifugal pump for transferring sea water containing small amounts of sand. They specified to us that the casing material be cast iron to save costs, we normally recommend bronze for sea water applications. They required the pump to have 4" ports and transfer 75m³/hr at 12m head.

Solution:

- ✓ We selected a horizontal self-priming centrifugal pump with a cast iron casing and bronze impeller from our CA range. The impeller type fitted to this pump allows passage of 10% sand content in the sea water. This pump has a 4" suction and discharge and we fitted a hard faced mechanical seal to cope with the abrasive sand content.