



Civil Engineering - Case Study



Case Study Information

Customer	Civil Engineering Company
Location	UK

Equipment Supplied:

Azcue Vertical Inline Monobloc Centrifugal Pump; Complete With Non Clogging Impeller & Motor

Model	LN-150-200
Installation	Vertical
Fluid	Fresh Water
Flow Rate	432 m3/hr
Pressure	6m
Pump Casing	Bronze
Impeller	Bronze
Shaft	Stainless Steel
Seal	Mechanical
Voltage	400v
Motor	11 Kw running at 1450 RPM 4 Pole

Enquiry:

- ✓ Castle pumps received an enquiry from a new customer in the UK who needed to transfer fresh water within an industrial process. The pump required a large flow rate of 432m3/hr and the water needed to be transferred free from contaminants.

Solution:

- ✓ Due to the fluid being fresh water, we selected a fully cast bronze pump - a material which can handle this type of fluid without risk of being corroded. The customer had initially looked at some Epoxy coated cast iron pumps but the Epoxy would eventually wear, which would expose the cast iron and result in corrosion and contamination of the fluid.

We coupled the pump to an electric 4 pole motor running at 1450 RPM, increasing the lifespan of not only the motor but also the wearing components within the pump. It is important to note that the initial costs for purchasing a pump make up a tiny percentage of the overall running costs. So by fitting a larger motor and running it slower, their overall costs will drop dramatically over the lifespan of the pump.