

Case study 606

Quarry hires new Sykes hydraulic pump

At Sykes Pumps, we understand the various requirements of quarries and mines, from dewatering to dust suppression, and have over 150 years' experience installing appropriate solutions. With an unsurpassed track record providing pumping systems to the industry's biggest players, we possess the largest range of equipment across our expansive depot network. Our diesel units have been designed with uncompromising applications and materials in mind and are capable of continuous, unmanned operation.

An established quarry in Northumberland required a high performance pump in order to continue producing railway ballast and road stone coating. Due to the suction depth and a lack of electrical power, a hydraulic unit was essential. Environmental conditions stipulated that trailing electric cable from a power source to the site would be unsuitable, so an alternative solution was sought. Deep-set lagoons with sidewalls in excess of 30m to the water surface also negated the use of general diesel pumps because of the suction lift.

It was therefore decided that two 4" Hydraset hydraulic submersibles would be deployed initially, with this increasing to at least four once the wet season sets in. This model was specifically chosen because of its excellent manoeuvrability and aptitude for providing more power should the water volume increase over time. The maximum extension for the hydraulic leads is 100m, and this allowed the submersible pump-end to be a considerable distance from the power pack. Our pumps were used to transfer water between different storage lagoons, as well as supply water to the batching plant to wash the aggregate and stone.

The customer was very pleased with the Hydraset's performance which ensured a vital excavation resource could remain online. We successfully relocated water in addition to carrying out general site drainage, fulfilling all predetermined obligations quickly and effectively.



Max head H100: 40m, H150: 22m
Max flow H100: 62l/s, H150: 95l/s
Max solid H100: 38mm, H150: 65mm
Discharge H100: 4" Bauer, H150: 6" Bauer
Hydraulic lines 20m
Fuel tank capacity 145 litres
Fuel consumption 9l/h
Noise level @7m = 75dBA
Powerpack dimensions 1900 x 1100 x 1720



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