

Streamlining Effluent Treatment: Roto Pumps Reduces Algae Cleaning Costs at a Leading Palm Oil Mill in Malaysia



ROTO'S COMMITMENT TOWARDS EXCELLENCE

Roto Pumps stands as a beacon of technical excellence, addressing industry-specific pumping challenges. With our in-depth knowledge and 55 years of experience, we had delivered robust Positive Displacement Pumps that conquered the toughest pumping applications. Owing to the exceptional performance of our pumps, we have managed to successfully transfer over 5000 fluids across 55+ industries.

THE PROBLEM

An esteemed palm oil mill in Malaysia was faced with the challenge of cleaning an algae pond in their effluent treatment plant. The mill initially relied on the outdated and conventional method of using excavator loaders, which prolonged the process for up to three months. Not only was this method inefficient, but it also caused unnecessary mess and clumsiness, leading to damage to the tanks' sidewalls. As a result, the entire process became both costly and time-consuming.

ROTO SOLUTION

The Roto team immediately embarked on finding a suitable solution to the customer's problem. We developed two RNA 90 ROTO HELICAL ROTOR PUMPS, which was powered by a tractor engine and connected with a flexible hose. These pumps were able to scan the entire algae pond using a floating platform. Roto Pumps addressed the problem at its core, allowing the sludge that previously posed a disposal issue to be efficiently pumped as valuable manure to distant palm plantations.

THE AMAZING RESULTS

Roto Pumps achieved a remarkable 66% reduction in the total cost of the cleaning process, bringing immense cost savings to the esteemed palm oil mill. In addition, the time required to clean the algae pond was significantly reduced to almost one-third of the previous duration. This dramatic improvement not only ensured efficiency but also brought great joy and satisfaction to our valued customer. At Roto Pumps, customer happiness is our utmost priority, and we take pride in delivering solutions that exceed expectations and deliver tangible benefits.

Performance Range

Flow Rate: up to 500 m³/hr

Pressure: up to 48 bar



Roto Helical Rotor Pump