

# Clean, Energy Efficient Conveying Solutions for the **Detergent Market**



**From laundry powders to washing up liquids, the detergent industry comprises of some of the world's most recognisable brands and also has significant influence on the way in which we managed our lives.**

The effects of modern industry has had a profound impact on our environment, and as such, businesses and citizens alike are seeking ways in which to reduce energy and fossil-based raw material consumption, whilst improving the operational effectiveness of their production processes.

The detergent market is no different, with many producers now striving to obtain a larger percentage of their ingredients from natural plant sources, as alternatives to traditional, more costly, petroleum-based feedstocks. This shift in focus has been driven by increasing energy and oil prices, as well as a growing demand for eco-consumerism.

Detergent manufacturers are eager to identify technologies and solutions that can be used to handle a wide array of both petroleum-based and naturally-sourced ingredients in an energy efficient, clean, environmentally sound manner.

Clyde Materials Handling has developed a series of sustainable pneumatic conveying solutions, which have the ability to transport the materials required to produce detergent-based products by consuming low volumes of energy at high throughput rates.

## **Transforming Processes**

Clyde Materials Handling is an established customer-driven solutions provider, which utilises its knowledge, expertise and technologies to transform the production processes of its customers who operate within the detergent industry.

Clyde Materials Handling has helped their global detergent manufacturing customer base transform the way in which they operate their processes, which has enabled them to generate sustainable economic benefits and maintain their positions as leaders in their market.

Clyde has used its Research, Development and Testing facility to analyse and test various materials used in the production of various washing and domestic cleaning products. By utilising this approach, Clyde Materials Handling has been able to identify the most energy efficient and economically beneficial solution to successfully conveying materials in the detergent market.

Clyde's pneumatic conveying solutions have been able to transport various materials in an unrestricted, controlled and continuous manner at low velocity, consuming low volumes of compressed air.

Close customer communication has resulted in the creation of unique and innovative solutions which have been able to handle problematic materials used in the production of detergent-based products. Clyde pioneered the application of an innovative conveying technology called Autoflow, which is a specially adapted solution designed to handle difficult and mono sized materials in the detergent industry. Clyde's



pneumatic conveying solutions have also handled a range of sodium-based materials, salts, clays and starches.

All of Clyde Materials Handling's conveying solutions are enhanced through the use of the Clyde Dome Valve, widely regarded as the best material handling valve in the world. The Clyde Dome Valve has the ability to cut through static or moving columns of material through the use of its innovative inflatable seal mechanism, ensuring that a consistent pressure tight seal is created when the valve is in the closed position, but in the open position, it provides an unrestricted full bore opening for the best product flow possible.

Clyde has developed pneumatic conveying solutions that have the ability to transport the following materials:

- Sodium Tri Polyphosphate
- Sodium Carbonate
- Sodium Carbonate Peroxhydrate
- Citric Acid
- Zeolite

These solutions absorb a minimal amount of power, cause low wear on system components and pipelines, therefore, reducing maintenance costs and increasing system availability, reliability and production.

## No Limits. Infinite Possibilities

By placing the customer at the heart of their business, Clyde Materials Handling has developed a global, extensive and diverse set of references, who have become lifetime customers. They continually seek Clyde's guidance in areas of process improvement and material handling.

Clyde Materials Handling takes pride in the return on investment it has generated for its customers, which include:

- Significant increases in productivity
- Environmental sustainability
- High system availability, reliability and performance
- Low operating costs and maintenance
- Greater process control
- Cost savings through process efficiencies
- Flexibility to integrate with existing and emerging technologies

More specifically, Clyde Materials Handling has generated the following, typical returns for organisations who operate in the detergent market:

- Minimal Degradation
- Flexibility to re configure existing systems
- Minimum maintenance
- Energy efficiency

Clyde Materials Handling is driven by an energy and passion which enables them to make the impossible happen – there are no limits to their capabilities. Together, with their customers, the possibilities are infinite.



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