

€185K Saved Annually 400% Filling Speed Increase!

How Fristam's Double Screw Pumps Helped
Cosmetics Giant Boost Efficiency & Profits!



Application:

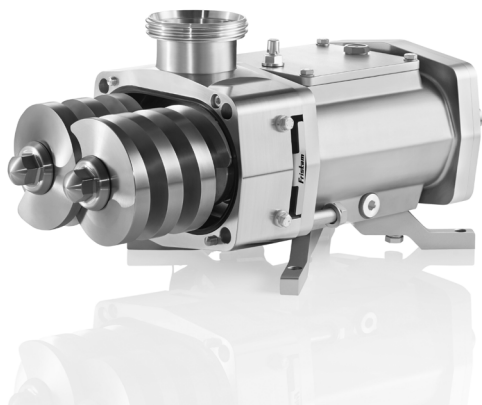
Transfer of cosmetic gels, lotions and creams.

Challenge:

Competitor pumps were struggling with suction, damaging shear sensitive products and were not transferring product fast enough to meet new production targets. Additionally, there was no static inlet pressure.

Goal:

To install pumps with the versatility to handle all the different products at a flow rate high enough to meet sites target of a 400% increase to the filling rate.



Max discharge pressure: 25 bar
Max flow rate: 500m³/h
Max viscosity: 1,000,000 cP

Customer brief:

A major cosmetics manufacturer was looking to increase the production of various gels, lotions and cosmetic creams after a new contract drastically increased demands on production. They estimated that to keep up with demand, they needed to increase filling rates by 400%, but their positive displacement and air operated diaphragm pumps were unable to deliver such high-volume transfers. The pumps also struggled to generate enough suction to extract the products from their totes and when they did, they damaged the shear sensitive product.

The Solution:

The company purchased two FDS size 2 pumps, each mounted on a mobile cart with a variable speed drive. This design enabled the pumps to be moved to different locations within the facility, maximising the number of products that could be transferred and minimising the need for adjustments on the production lines.

Outcome:

FDS pumps are known for their high suction capabilities and their ability to handle a broad range of viscosities efficiently. Their wide operational speed range allowed the manufacturer to adjust pump speed to accommodate the varying viscosities of their cosmetic products, which ranged from 5,000 to 250,000 cP. The FDS pumps enabled the company to meet its production targets by rapidly emptying all totes, leaving the bare minimum of waste product behind. With this significant boost in production efficiency, they project they will save approximately €185K annually in labour costs alone!

Discover the benefits of FDS technology by booking a 30 day Free Trial through your local Fristam Pumps representative!

Fristam
Hygienic Pumping Experts