

## NOT JUST WORDS ON PAPER

At various paper mill sites in Finland, SSP rotary lobe pumps are now established as site standard for many positive displacement pumping duties, one of which being the transfer of sulphate soap.

Sulphate soap (or black liquor soap) is the soap-like material produced in the Kraft (sulphate) pulp process. The ease of pumping sulphate soap is very much temperature dependent and is normally pumped at temperatures between 70 - 90°C. Below this temperature the viscosity of the sulphate soap increases considerably, thereby becoming sticky and difficult to pump.

Rotary lobe pumps are often preferred to other positive displacement pumps, such as progressing cavity and gear types on sulphate soap applications, due to their ability to handle the varying viscosity and run dry when fitted with flushed mechanical seals.

One of the critical factors for success in this particular application is the pump's sealing ability, as a pump is only as good as it's shaft seal. Here, SSP have standardised on using a John Crane Safematic mechanical seal, which is a double acting, balanced, heavy duty design cartridge seal specifically engineered for use in the Pulp and Paper industry. The cartridge design provides easy installation, reliable performance and long lifetime under demanding conditions.

Another factor in SSP Pumps favour over competing technologies such as progressing cavity and gear pumps is the cost effective easy maintenance. The low running and maintenance costs, and easy access to the pumphead minimising downtime, results in a reduced lifecycle cost.

Pictured above are two Model A8-0745-H10 pumps. Also at the same site are two Model A7-0550-H10 and S6-0260-H10 pumps on similar applications.



<b>Pump Range:</b>	Series A
<b>Model:</b>	A8-0745-H10

<b>Duty Details:</b>	
<b>Pumped Media:</b>	Sulphate Soap
<b>Flow Rate:</b>	54 m <sup>3</sup> /h
<b>Discharge Pressure:</b>	3 bar
<b>Viscosity:</b>	7000 cP
<b>Pumping Temperature:</b>	70°C
<b>Pump Speed:</b>	157 rev/min

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*The information contained herein is correct at the time of issue, but may be subject to change without prior notice*