

Application story



Dosing Paraffin

Location	Brazil (Installation: 2020)	Hydra-Cell model	D10XKBGSFHCB
Type of application	Dosing Paraffin	Flow rate	3.15 – 24.84 l/min (0.83 - 6.56 gpm)
Liquid	Paraffin	Pressure	16 bar (232 psi)
Application details	Dosing paraffin for an engineered wood and composite products manufacturing process. Controlled spraying of paraffin at the beginning of the engineered wood process to coat the wood chips for water repellent. The paraffin emulsion is very shear sensitive and can be destabilised and phase separation occurs. This is detrimental to the process and effects the quality of water repellent coating. The quality control process used measures the swelling of the final product when exposed to water. If the coating is poor there is excessive swelling. As this is at the end of the process the cost of quality is high. The previous progressing cavity pumps had a higher shear and destabilised the paraffin emulsion, effecting the quality and production yields. With the change to the lower shearing Hydra-cell pumps the customer was able to meet the ABNT (Brazilian Association of Technical Standards) One year on from installing Hydra-Cell, there has been no need for maintenance intervention.		
Advantages of Hydra-Cell pump on this application	Seal-less and multi-diaphragm design enables: • Low shear capability • Increased reliability • Also, smaller footprint		

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