

Application story



Dosing Non-Lubricating Wax in Laminate Production

Location	Germany	Hydra-Cell model	G03XDSTHEYMG
Type of application	Dosing Paraffin Wax in Plastic Laminate Production	Flow rate	Up to 11 l/min (3 gpm)
Liquid	Paraffin Wax	Pressure	Up to 70 bar (1000 psi)
Application details	A major German chemical plant previously used gear pumps to handle paraffin wax on a process in the production of plastic laminates. The wax must be dosed continuously at 65 bar and at temperatures above 60°C. Below that temperature it flocculates. The liquid has a low viscosity, 20 cps at 80°C, and is non-lubricating – a combination of circumstances that invariably caused the gear pumps to fail. As a type they are prone to wear when pumping low lubricity liquids, and the effect increases with rising temperature and pressure. The gear pumps were replaced with Hydra-Cell G03 pumps, whose internal construction, with no close-tolerance meshing metallic surfaces or mechanical seals, does not require the liquid to provide lubrication. The G03 pumps have run successfully for many years in this application.		
Advantages of Hydra-Cell pump on this application	Seal-less design and ability to handle non-lubricating liquids.		

www.hydra-cell.co.uk

Wanner Engineering -
World Headquarters & Manufacturing
Minneapolis USA
t: (612) 332-5681
e: sales@wannereng.com

Wanner International
Hampshire UK
t: +44 (0) 1252 816847
e: sales@wannerint.com

Wanner Pumps
Shanghai CHINA
t: +86-21-6876 3700
e: sales@wannerpumps.com

Wanner Pumps
Kowloon HONG KONG
t: +852 3428 6534
e: sales@wannerpumps.com