

Application story



Spray Drying Colour Dye (3)

Location	India	Hydra-Cell model	G25XKSGHFECB
Type of application	Spray Drying Colour Dye	Flow rate	3000 L/hr (792 US gal/hr)
Liquid	Dye Ink	Pressure	45 bar (652 psi)
Application details	Hydra-Cell® Spray Drying Dyes Colourtex India Ltd is the largest manufacturer of Dyes on the Indian subcontinent, producing a mix of over 750 dyes and inks from an annual installed capacity of 100,000 tonnes. For the Company's Surat based spray drying process, Hydra-Cell pumps have been selected to feed liquid dyes containing 30–35% dissolve solids into the spray dryer chamber, where it comes into contact with steam, which removes the moisture content, producing dye powders. Depending upon the characteristic of liquid dyes, the temperature may range from 300C to maximum of 700C. A high pressure pulseless flow is essential for producing these high quality powders and Hydra-Cell pumps are proving to be the ideal solution. The Company has already installed over 40 Hydra-Cell pumps for this application, the majority being G25 models but G35 and G15 models are also in use at other plants. Hydra-Cell's ability to pump liquids with a high solids content, in a virtually pulseless flow and run dry without damage if necessary makes them the preferred choice. Being seal-less and 100% leak free are further important benefits the Hydra-Cell pumps have over traditional plunger pumps that have seal-wear problems and generate an unacceptable pulsed flow.		
Advantages of Hydra-Cell pump on this application	Hydra-Cell was chosen for this applcaitons for the following reasons: - Ability to pump this particle laden liquid, with ease. - Offers a virtually pulseless flow, vital for this opertaion		

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