

Application story

WANNER
HYDRA-CELL® PRO
SEAL-LESS PUMP TECHNOLOGIES



Spray Drying Colour Dye (2)

Location	India	Hydra-Cell model	G25XKSGNNECB
Type of application	Spray Drying Dyes	Flow rate	40 L/min (10.5 gpm)
Liquid	Dye	Pressure	45 - 60 bar (652 - 870 psi)
Application details	Dye manufacturing is a major industry in India.		

In one manufacturing plant, intermittent pressure drops in the spraying system, caused by leaking plunger pumps were causing temperature variations in the spray chamber that impacted on production efficiency.

Leaking seals are also wasteful in product terms and seal maintenance is time consuming and expensive. The dye slurries are so abrasive that they even wear the ceramic coated plungers in the previously installed plunger pumps in record time.

Able to run dry indefinitely and requiring little maintenance, Hydra-Cell G25 seal-less diaphragm pumps overcome these problems admirably and being more compact and energy efficient, they generated significant power savings.

This application is ideal for Hydra-Cell pumps, confirmed by the fact that over 150 Hydra-Cell pumps are used in this process in India alone.

Advantages of Hydra-Cell pump on this application

- Hydra-Cell was chosen for this application for the following reasons:
- Extreme reliability, offering minimal maintenance and increased production up-time.
 - Seal-less design, giving a 100% leak-free solution.

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