

CHEMICAL & PETROCHEMICAL

Quick STUDY

Hydra-Cell
Seal-less Pumps

www.Hydra-Cell.com

Location:	Finland
Application:	Process pumping of wide range of materials
Media:	• Fillers • Color additives • Latex • Polymer • Starch
Model No.:	D03XDSGHHMA D10XKSGSFEMB H25SKSGHFEMB
Flow Rate:	Variable
Pressure:	Variable
Hydra-Cell Advantages:	• Seal-less design • Pumping efficiency • Low power requirement



Board Manufacture, Various Chemicals

Almost every chemical used in the manufacture of board reacts when exposed to air, usually by drying and/or crystallizing. There is always liquid between seal faces of process pumps. Seal wear, (especially of the shaft seal) will allow ingress of air and dry the liquid, causing further wear and leaks. When a pump stops, air may penetrate other internal seals, causing the pump to seize. It has been estimated that 90% of maintenance work on industrial pumps involves the shaft seal.

The Hydra-Cell has no shaft seal in contact with the pumped fluid. It is therefore more reliable and needs minimal maintenance. Other benefits cited by customers in Finland include higher efficiency and a lower power requirement.

Characteristics of Fluid Pumped:

☐ Contains Abrasives ☒ Corrosive ☐ Solids in Suspension ☐ High-temp. (>158°F/70°C) ☐ Non-lubricating ☐ High-viscosity (>500 cPs)