

CHEMICAL & PETROCHEMICAL

Quick STUDY

Hydra-Cell
Seal-less Pumps

www.Hydra-Cell.com

Location:	Germany
Application:	Internal cleaning of steam cracker
Media:	• De-coking mix
Model No.:	H25EKSJHFEHB
Flow Rate:	Up to 18 gpm (68 l/min)
Pressure:	Up to 1000 psi (69 bar)
Hydra-Cell Advantages:	• Seal-less design • Ability to handle non-lubricating liquids • Reliable performance in a critical process



Cleaning Internal Hydrocarbon Deposits from Steam Cracker

A world leader in chemical production required pumps to clean deposits from the internal walls of its steam cracker. The steam cracker is the biggest plant on the site and is the heart of their production process. Most processes on this chemical producer's site depend on it working efficiently. Steam cracking is a petrochemical process by which saturated hydrocarbons are broken down into smaller, unsaturated hydrocarbons.

A Naphtha feedstock is fed to a compressor then separated into two phases. In the course of the process, a hard deposit of coke builds up on internal walls. Periodically this contamination must be removed.

A Hydra-Cell H25 pump is now used to deliver a mix of solvents, fuels and water at high pressure to accomplish this. The pump has proved to be very reliable and cost-effective for this task.

Characteristics of Fluid Pumped:

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