

CLEANING & WASHING

Quick STUDY

Hydra-Cell®
Seal-less Pumps

www.Hydra-Cell.com

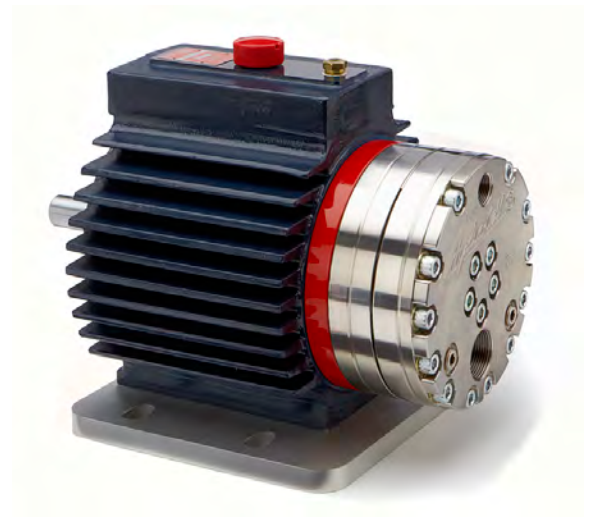
Location:	Switzerland
Application:	Abrasive cleaning
Media:	• Silica carbide grit (in water)
Model No.:	D15XKBTHFFCA
Flow Rate:	5 gpm (20 l/min)
Pressure:	2030 psi (140 bar)
Hydra-Cell Advantages:	• Seal-less design, enabling the pumping of liquids with very abrasive solids

Abrasive Cleaning of Turbine Blades

Engineers at a leading aerospace and power generation company in Switzerland have developed a new process for cleaning turbine blades.

In operation, turbine blades accumulate deposits that reduce the efficiency of the turbine. The old way of cleaning the blades was by means of air blasting sand. The new technique uses high pressure water, with 50% solids content (silica carbide grit). This is less damaging to the turbine blade.

For pumping the abrasive water mix at high pressure, the engineering team is successfully using the Hydra-Cell D15. With its seal-less design and spring-loaded, horizontal disk check valves, the model D15 can handle abrasive particles up to 500 microns in size.



Characteristics of Fluid Pumped:

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