

MACHINE TOOL COOLANT

Quick STUDY

Hydra-Cell[®]
Seal-less Pumps

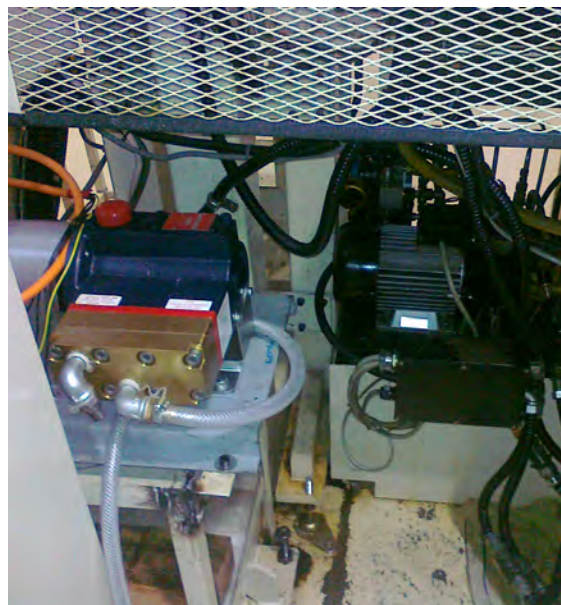
www.Hydra-Cell.com

Location:	Hungary
Application:	Roller slick machine, pressure feed of emulsion
Media:	• Oil (emulsion)
Model No.:	D04SDBTHFECG
Flow Rate:	0.11 - 0.14 gpm (3 - 4 l/min)
Pressure:	1650 - 2320 psi (114 - 160 bar)
Hydra-Cell Advantages:	• Seal-less design • High-pressure capability • Handles small metal particles

Finishing Steering System Ball Joints

A plant located in Hungary produces components for European vehicle manufacturers such as Audi, Jaguar, Land Rover and Volvo. One of its processes employs a special technology for finishing ball joints used in steering systems. At the heart of the process is a high pressure pump delivering oil emulsion. It must work at up to 2320 psi.

The three-piston pump originally installed was being damaged by small metal particles which gradually contaminate the oil emulsion. With frequent interruptions to production, and rising pump repair costs, the plant contacted the Hydra-Cell distributor. In May 2010 a Hydra-Cell D04 was installed in place of the piston pump. More than a year later the plant confirmed that the D04 continued to work well. No problems had arisen and no repairs had been needed.



Characteristics of Fluid Pumped:

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