

MACHINE TOOL COOLANT

Quick STUDY

Hydra-Cell
Seal-less Pumps

www.Hydra-Cell.com

Location:	Germany
Application:	De-burring while machining
Media:	• Oil • Emulsion • Coolant
Model No.:	D15XDBTHFECA
Flow Rate:	13 gpm (50 l/min)
Pressure:	2495 psi (172 bar)
Hydra-Cell Advantages:	• Higher pressure capability than screw pumps • Able to handle particles - unlike radial piston pumps • Resistant to abrasion • Adjustable output flow



Coolant for High-pressure De-burring

The high-pressure capability of the D15 Hydra-Cell pump enabled the company to achieve efficient cooling and lubrication during machining, while simultaneously breaking burrs created by the drilling of an 8mm transverse hole in a 20mm bore aluminum sleeve. Removing the burrs in this way avoided the reworking that would normally have been necessary.

On this operation, delivering combined coolant and lubricating liquid, the Hydra-Cell pump proved itself not only by handling the pressure but also by tolerating metal particles up to 50 microns and by resistance to abrasion. Following successful trials, the customer ordered an additional pump for the application.

Characteristics of Fluid Pumped:

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