MACHINE TOOL COOLANT

www.Hydra-Cell.com

Location:	France
Application:	Machine tool metal cutting - drilling, turning, boring, milling
Media:	CoolantEmulsion
Model No.:	D10XKCTHFECA D12XKCTHFECA
Flow Rate:	264 - 400 gph (1000-1500 lph)
Pressure:	725 psi (50 bar)
Hydra-Cell Advantages:	 Reliability Proven low maintenance Low life cycle costs Ability to handle particles in suspension High-pressure capability



High-pressure Coolant Pump Still Performing at 22,000 Hours

Several years ago, a manufacturer of turbo-chargers, primarily for the automobile industry, equipped its OKUMA machines with a highpressure coolant facility. Coolant was previously fed to the machines from a low-pressure central filtration system. OKUMA recommended Mayfran HP filtration units that included Hydra-Cell as the high-pressure pump.

The Mayfran HP unit "stands alone" next to each machine. Metal particles are filtered out of the coolant (down to 50 microns), by means of a drum filter. There are 11 Hydra-Cell pumps in total.

Since then the company has benefited from high-pressure coolant in many ways:

- · faster cutting speeds
- continuous lubrication of the cutting tool extending tool life
- · consistent, predictable workpiece quality
- · fewer rejects and less downtime

The manufacturer enjoys predictable production rates and knows the cost-per-workpiece.

In 2008 one of the Hydra-Cell pumps was opened for a maintenancetraining check. The original valves and diaphragms were working after 22,000 hours of operation. The reliability of Hydra-Cell and proven low maintenance are essential pump requirements at this 24/7 continuous production site.





Characteristics of Fluid Pumped:











