

Application story



High Pressure Coolant for Turbocharger Machining (2)

Location	France	Hydra-Cell model	G10XKCTHFECA / G12XKCTHFECA
Type of application	High Pressure Coolant for Turbocharger Machining (2)	Flow rate	1000 - 1500 l/hr (264 - 400 gph)
Liquid	Machine Tool Coolant	Pressure	50 bar (725 psi)
Application details	Some years ago this manufacturer of turbo-chargers, mainly for the automobile industry decided to equip its OKUMA machines with a high-pressure 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 HP 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 customer has benefited from HP coolant, in particular: - faster cutting speeds - continuous lubrication of the cutting tool - extending tool life - consistent, predictable workpiece quality - fewer rejects and less downtime He now enjoys predictable production rates and knows his workpiece costs. In 2008 one of the Hydra-Cell's was opened for a maintenance/training check. The original valves and diaphragms were found to still be working after 22,000 hours of operation! The Hydra-Cell's reliability and proven low maintenance are essential pump requirements at this 24/7 continuous production site.		
Advantages of Hydra-Cell pump on this application	Reliability and proven low maintenance. Low life cycle costs. Ability to handle particles in suspension. High-pressure capability.		

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