

Application story



High Pressure Coolant for Mechanical Component Machining

Location	India	Hydra-Cell model	G10XKCTHFECH
Type of application	High Pressure Coolant for Mechanical Component Machining	Flow rate	Up to 30 L/min (7.9 gpm)
Liquid	Machine Tool Coolant	Pressure	Up to 50 bar (725 psi)
Application details	Ultra Engineers manufacture mechanical components used in conventional and renewable energy, oil & gas, automotive, aerospace, mining and earth moving equipment. Working to tight tolerances, they require coolant pumps that would provide consistent flow and pressure while needing little maintenance. Some five years ago, Doosan, the metalworking machine manufacturer, supplied both horizontal and vertical machining centres, fitted with Hydra-Cell G10 pumps for high pressure coolant delivery. These pumps have proven ultrareliable, even when pumping machining fluids that contain metal fines that could prove catastrophic for gear and screw pumps that have dynamic seals and close internal tolerances. Ultra Engineers are extremely happy with the Hydra-Cells' performance and have recently purchased a further pump and spares for back-up.		
Advantages of Hydra-Cell pump on this application	Hydra-Cell was chosen for this application for the following reasons: - Ability to handle liquids with particles & fines - Seal-less design, giving high reliability and increased up-time.		

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