

Application story



High Pressure Coolant for CNC Machine Tools (3)

Location	India	Hydra-Cell model	G10XKCTHFECH
Type of application	High Pressure Cleaning for CNC Machine Tools	Flow rate	1500 L/hr (396 US gal/hr)
Liquid	Machine Tool Coolant	Pressure	60 bar (870 psi)
Application details	Hydra-Cell® Powers High Pressure Coolant Delivery With seven sites in India, Craftsman Automation is one of the country's leading precision engineering organisations. Among other engineering products such as heavy parts, tooling and lifting equipment, the Company designs, develops, manufactures and supplies precision automotive parts, such as engine blocks, cylinder heads, and transmission housings for commercial and utility vehicle manufacturers such as Mahindra and Ashok Leyland. The Company operates a substantial number of Doosan vertical machining centres with high pressure through spindle coolant facility to optimise machining efficiency and quality. These machines have been retrofitted with some sixty Hydra-Cell coolant pumps to deliver the high pressure machining fluids that so efficiently cool the work piece and extend tool life while effectively removing the chips from the cutting zone for a high quality machined finish. Hydra-Cell pumps were chosen in preference to screw pumps for their outstanding reliability (they have required very few replacement parts) and high energy efficiency. Unlike screw pumps they are unaffected by the metal fines that can recirculate in the coolant and require no fine filtration.		
Advantages of Hydra-Cell pump on this application	Hydra-Cell was chosen for this application for the following reasons: - Ability to handle this particle laden liquid, with ease. - Proven reliability, when compared to other technologies.		

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