

Application story



High Pressure Coolant for Automotive Component Manufacture (2)

Location	India	Hydra-Cell model	G10XKCTHFEYA / G12XKCTHFEYA / G25XKCTHFEYA
Type of application	High Pressure Coolant for Automotive Component Manufacture (2)	Flow rate	G10/G12 30 l/min (8 gpm) / G25 70 l/min (18 gpm)
Liquid	Machine Tool Coolant	Pressure	G10/G12 55 bar (800 psi) / G25 70 bar (1000 psi)
Application details	As part of major additions to its production facilities in India, a leading Japanese vehicle manufacturer planned a new production line for diesel engine components. Machine tools originally brought in from Japan, or purchased in India for this expansion, incorporated high pressure coolant delivery systems equipped with piston pumps. Meanwhile the company looked out for alternative pumps that could run reliably for long periods on virtually continuous 24 hour duty. Screw pumps from a German manufacturer and centrifugal pumps from another well-known European supplier were among the options considered. Discussions with Machinomatic Engineers, Wanner's distributor in India on the advantages of Hydra-Cell's seal-less design alerted plant engineering to two features of particular interest to the company: low maintenance and sustainably low power consumption. Initially replacing two piston pumps and establishing that their seal-less replacements performed to expectations, the company bought more. All new machine tool coolant systems are now fitted with Hydra-Cell pumps, while more of the pumps are running in other applications such as auto parts wash. More than thirty Hydra-Cell pumps (models G10, G25 and the vertically mounted G12) were said (May 2014) to be working on machine tool coolant systems.		
Advantages of Hydra-Cell pump on this application	Seal-less design. Leak-free. Minimal maintenance. No contact between coolant liquid and drive. Can maintain constant pressure. Sustained performance. Easy maintenance. Power savings.		

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