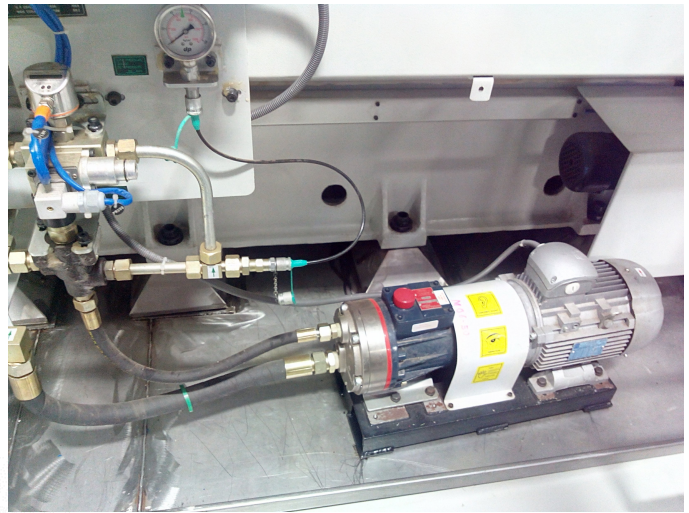


Application story



High Pressure Coolant for Common Rail Diesel Injection Parts

Location	India	Hydra-Cell model	G10XKCTHFEYA
Type of application	High Pressure Coolant for Common Rail Diesel Injection Parts	Flow rate	30 l/min (8 gpm)
Liquid	Machine Tool Coolant	Pressure	60 bar (870 psi)
Application details	A manufacturing facility concentrated on the production of common rail diesel engine injectors is one of five automotive component plants operated in India by a global manufacturer of engineering products. The customers in India are leading vehicle manufacturers. All five plants are extensive users of Hydra-Cell machine tool coolant pumps, which by stages are replacing seal-reliant types such as gear, screw, vane and piston pumps in the machining centres. The common rail injector, controlling the input of fuel, is one of the most critical precision elements in a diesel engine. Accurate machining is essential. But operations such as the drilling of deep narrow holes in the injector nozzles and other components cannot be performed accurately unless the coolant liquid, pumped 'through tool' to the work surface, is delivered at sustained pressure for effective cooling and swarf removal. Internal pump wear is a threat to sustained performance and productivity - also increasing energy costs. Despite fine filtration it was found that the original pumps at this plant could not stay efficient when handling recycled coolant liquids and fine particles not caught by the filters. Such factors do not affect seal-less Hydra-Cell pumps. G10 pumps installed at the injector plant have performed consistently, maintaining pressure irrespective of flow requirement, liquid viscosity or type of coolant. They have proved easy to maintain, economical in power consumption and reliable, all while operating on 24/7 duty cycle.		
Advantages of Hydra-Cell pump on this application	Seal-less design. No contact between coolant liquid and drive. Can maintain constant pressure. Sustained performance. Easy maintenance. Power savings.		

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