

Application story



High Pressure Coolant for Automotive Component Manufacture (3)

Location	India	Hydra-Cell model	G10XKCTHFEYA / G25XKCGCCECA
Type of application	High Pressure Coolant for Automotive Component Manufacture (3)	Flow rate	G10: Up to 30 L/min (7.9 gpm) / G25: Up to 70 L/min (18.5 gpm)
Liquid	Machine Tool Coolant	Pressure	Up to 40 bar (580 psi)

Application details Bharat Forge is part of the Kalyani Group the world's largest forging company, manufacturing a wide range of high performance, critical & safety components for the automotive & non-automotive sectors.

At the plant in Pune, India, the Company uses Hydra-Cell pumps for the posttreatment machining of forged parts such as crankshafts, axles and connecting rods for the automotive industry.

Machining to ultra-fine tolerances requires consistent coolant flow and pressure, a combination achieved admirably by Hydra-Cell pumps. The machining process generates exceptionally hard metal particles that become entrained in the coolant and can destroy pumps with dynamic seals.

Seal-less Hydra-Cell G10 and G25 pumps handle these fines with ease. They have been used in this application for four years now with minimal maintenance and the only spare parts requirement during that time has been for a single valve kit.

Advantages of Hydra-Cell pump on this application	Hydra-Cell was chosen for this application for the following reasons: - Seal-less design, that is 100% leak-free. - Maintain constant pressure. - Easy in-situ maintenance.
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