

Application story



Cleaning Cylinder Heads and Engine Blocks

Location	India	Hydra-Cell model	G35XKBTHFEMA
Type of application	De-greasing Cylinder Heads and Engine Blocks	Flow rate	125 l/min (33 gpm)
Liquid	Detergent Water	Pressure	40 bar (580 psi)
Application details	Two bespoke cleaning units built by UK specialist Mecwash Systems for a major truck manufacturer in India, are the first-ever Mecwash systems to utilise high pressure, low-volume washing in their cleaning capability. Designed for the production-line cleaning of cylinder heads & engine blocks, each system incorporate a Hydra-Cell G35 pump, delivering a hot water & detergent mix at 80c and up to 40 bar. Previous systems have relied upon low-pressure 'flood' cleaning, however with some of these components having narrow internal galleries, up to 1.5m in length, to continue in this vein was not an option. Mecwash adopted a 2 x chamber approach for these systems: Chamber 1 High pressure cleaning of the internal oil and fuel paths, by means of carriage mounted, retractable spray lances. Cycle time is 6-minutes. Chamber 2 Low Pressure wash, rinse & dry, by means of revolving each part under static nozzles. Cycle time is 6-minutes. Hydra-Cell pumps were chosen for this application due to their ability to pump this hot, recycled, particle-laden liquid with ease, as well as being compact in size and energy efficient.		
Advantages of Hydra-Cell pump on this application	Hydra-Cell's ability to: - Handle this hot, recycled, particle-laden liquid with ease, due to the seal-less design. - Work reliably in this constant stop-start process.		

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