

Application story



High Pressure Coolant for CNC and Grinding

Location	Banglor, Karnataka - India	Hydra-Cell model	G12XRCTSFECA and G35XKCTHFEYA
Type of application	CTS & Grinding	Flow rate	20 and 120 lpm (5.3 and 31.7 usgpm)
Liquid	Recycled Coolant	Pressure	30 and 70 bar (435 and 1015 psi)
Application details	A manufacturer of spherical bearings, rod components and other aerospace components, relies heavily on effective and reliable coolant delivery during their manufacture process. Cooling and cleaning are a crucial part of the manufacturing process and can lead to lower defect/rejection rates, improved part quality and quicker manufacturing. The multi axis CNC and grinding machines installed at the facility were originally installed with Brinkmann screw pumps. Even with filtration, the screw pumps were experiencing accelerated wear due to the abrasive particles and fines suspended in the recycled coolant solution. This led to performance degradation, pressure drops and regular maintenance. These characteristics were deemed unacceptable and could cost the facility in the future. The company had previously installed about 45 Hydra-Cell G12 pumps in their milling machines and wanted to try a larger model for their larger machines. After replacing one the Brinkmann screw pumps with a Hydra-Cell G35 pump, the machine was back up and running. The machine ran reliably with no performance degradation or pressure loss showing a clear advantage over the previously installed screw pumps. This led to the facility replacing the previously installed coolant pumps in their 5 axis machines with Hydra-Cell G35 pumps. The pumps have been running trouble free and have had only 1 set of preventative maintenance over the course of 4 years. The facility is in its final stages of replacing all of the previously installed screw pumps with Hydra-Cell.		
Advantages of Hydra-Cell pump on this application	• Handling of particles, especially fine particles. • Pulse-less flow for constant coolant delivery. • Low noise to heighten operator safety. • Zero performance degradation. • Proven low maintenance and low cost of ownership.		

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