

Application story



High Pressure Coolant for Titanium Alloy Aircraft Components

Location	UK	Hydra-Cell model	G15XDBTHFEHA
Type of application	High Pressure Coolant for Titanium Alloy Aircraft Components	Flow rate	Up to 45 l/min (1.2 gpm)
Liquid	Machine Tool Coolant	Pressure	Up to 150 bar (2175 psi)
Application details	Machining the hard titanium alloys used in the aircraft industry requires coolant to be delivered at pressures over 150 bar to achieve good results. The particles produced from these hard alloys are very abrasive. The presence of even minimal amounts in the filtered coolant can cause problems for high pressure pumps reliant on dynamic seals. UK aircraft builders are using Hydra-Cell G15 seal-less pumps to deliver coolant at high pressure in these demanding conditions.		
Advantages of Hydra-Cell pump on this application	Seal-less design. With no dynamic seals, Hydra-Cell pumps were chosen in preference to screw pumps because of the Hydra-Cell's reliability in handling very abrasive titanium alloy particles in the coolant liquid.		

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