

Application story



High Pressure Coolant for CNC Drilling

Location	Poland	Hydra-Cell model	G10XKCTHFEYA
Type of application	High Pressure Coolant for CNC Drilling	Flow rate	Up to 30 L/min (7.9 gpm)
Liquid	Machine Tool Coolant	Pressure	30 bar (435 psi)
Application details	Faber CNC is a family owned company founded in 1985, supplying to companies who manufacture in the Automotive, Aviation, Furniture, Medical, Energy and Hydraulics industries. Certified to ISO 9001 and operating multi-spindle, automatic, CNC lathes to manufacture complex turned parts. The Company uses water-mix machining fluids to both cool and lubricate machining operations. For deep-hole drilling, Faber wished to adopt 'through tool' high pressure coolant delivery in order to better cool the parts and improve the formation and removal of machining chips. Screw pumps and previously installed gear pumps are relatively inefficient when pumping water-mix fluids because of their internal leak paths and the necessity for internal sealing to be provided by the pumped fluid. Entrained particles can also be a problem for such pumps causing premature wear, further inefficiency and potential catastrophic failure. A Hydra-Cell G10 pump, supplied through Tapflo Poland, overcomes these problems, handling water-mix coolants efficiently, even those containing abrasive particles.		
Advantages of Hydra-Cell pump on this application	Hydra-Cell was chosen for this application for the following reasons: - Ability to handle this recycled, particle laden liquid with ease. - Known reliable for maximum production up-time.		

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