

Application story



Increasing Machine Tool Drilling Productivity

Location	Russia	Hydra-Cell model	G10XKCTHFEYA
Type of application	High pressure Machine Tool Coolant	Flow rate	Up to 30 lpm (7.93 US gal/min)
Liquid	Coolant (5% emulsion)	Pressure	Up to 70 bar (1015 psi)
Application details	A major enterprise in Russia specialises in developing and the manufacture of machinery and equipment for a variety of industrial plants. In a machine tool drilling operation, a multistage centrifugal pump had a maximum working pressure of 20 bar and needed three separate operations with three different sized drills to drill one hole. Seeking to reduce the cycle time, the company introduced a high pressure coolant process and replaced the previous pump with a Hydra-Cell pump to deliver the coolant up to 70 bar which enabled the hole to be drilled in a single operation. The Hydra-Cell pump has been operating reliably for over 18 months, more than halving the cycle time whilst reducing tool costs and saving costs by delivering a consistent flow rate independent of pressure, ensuring the coolant is kept at the drill bit optimising performance, and with no requirement for fine filtration due to the seal-less design.		
Advantages of Hydra-Cell pump on this application	Benefits of Hydra-Cell seal-less pumps: • Lower cost of ownership • Consistent flow rate, independent of pressure • No requirement for fine filtration		

www.hydra-cell.co.uk

Wanner Engineering -
World Headquarters & Manufacturing
Minneapolis USA
t: (612) 332-5681
e: sales@wannereng.com

Wanner International
Hampshire UK
t: +44 (0) 1252 816847
e: sales@wannerint.com

Wanner Pumps
Shanghai CHINA
t: +86-21-6876 3700
e: sales@wannerpumps.com

Wanner Pumps
Kowloon HONG KONG
t: +852 3428 6534
e: sales@wannerpumps.com