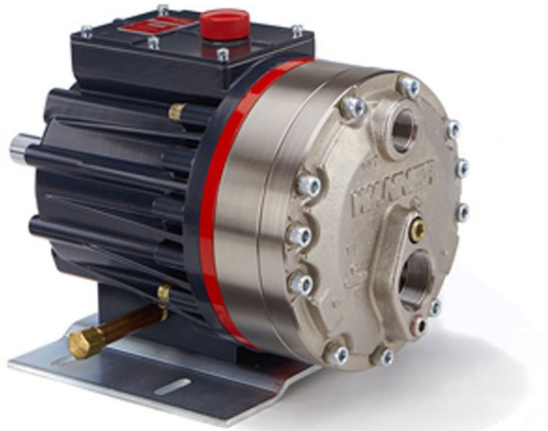
Application story

WANNER™
HYDRA-CELL® PRO
SEAL-LESS PUMP TECHNOLOGIES



High Pressure Coolant for Ultra Hard Material Machining

Location	Germany	**Hydra-Cell model**	G10XKCGCCECA / G25XKCGCCECA
Type of application	High Pressure Coolant for Ultra Hard Material Machining	**Flow rate**	G10 Up to 30 l/min (8 gpm) / G25 Up to 76 l/min (20 gpm)
Liquid	Machine Tool Coolant	**Pressure**	Up to 70 bar (1000 psi)

Application details

A German manufacturer of lip drillers from very hard materials found that Hydra-Cell pumps were an ideal choice for pumping coolant at the high pressures required for successful dissipation of the high heat energy generated during machining.

The nature of the materials (Wolfram carbide stainless steel was one example) was such that the machining process formed particles of less than 10 microns – small enough to pass through the fine filters required by screw pump manufacturers as standard practice. Even with their 'normal' protection screw pumps would fail.

Centrifugal type filtration could help to remove some of these particles, but some would remain in the coolant.

The seal-less design of the Hydra-Cell pump, which does not require fine filtration, avoided these problems.

Various Hydra-Cell models have been successfully used on this application. They include the G10, G25 and the G40.

Advantages of Hydra-Cell pump on this application

Seal-less design. Ability to handle particulates, with no need for fine filtration. High pressure capability.

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