

Mono® On The Move With Sintec

Mono Pumps have enabled geo thermal drilling specialists Sintec Environmental Ltd to get on the move with their new mobile site support system. Sintec, a northern company based in Lancashire, specialise in geo thermal drilling, and installing and grouting of ground source vertical and horizontal heat sources, for heat pump installations. They have designed and manufactured a multipurpose trailer which can mix and inject grouting media or alternative products into chosen cavities, anywhere on site.

Mono's Widethroat W range pump forms an essential part of Sintec's mobile system by pumping the thicker grout mixes more quickly and efficiently.

Once the mobile system is in-situ and drilling of an exploratory hole is almost complete, a mixer combines the bentonite/cement grouts to form bentonite slurry. This is then transferred by the W Range pump to the holding tank ready for injection into the hole within a matter of minutes. A lean mix of bentonite and cement is the standard site investigation mix and is designed to stop any cross contamination of aquifers.

The Widethroat W range pump is ideal for this type of application as the pump has been designed with an enlarged, rectangular inlet and screw conveyor to assist thick slurries into the pumping element for easy transfer. The rotary action of the positive displacement pump generates pressure at any speed and does not require centrifugal force or high rotational speeds to operate.

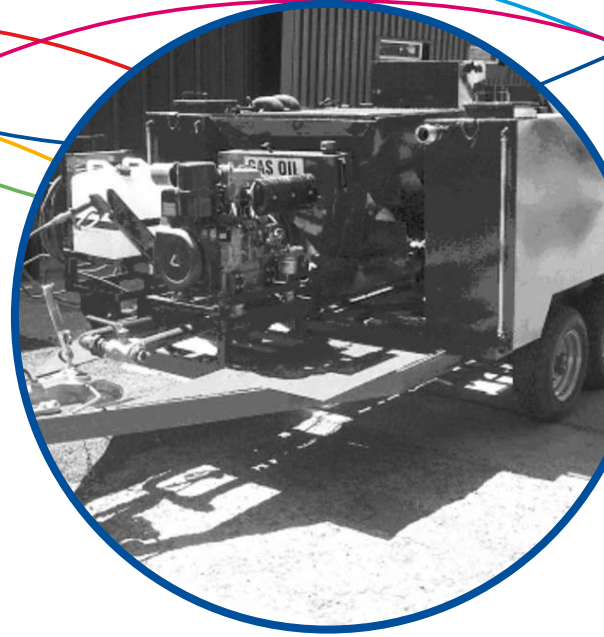
As the pump does not rely on any centrifugal action for its operation, there are no large changes in fluid velocity. Agitation and turbulence are therefore

minimal, and shear sensitive products can be pumped without damage.

The Widethroat pump design is a good choice for delivering a steady flow of viscous materials, which benefit from the slow running speeds and gentle handling made possible by the progressing cavity pump action.

The Environment Agency is endeavoring to enforce legislation such as section 86 of the Water Resources Act 1991 which expects possible pathways of contamination of existing boreholes, which have been sampled and monitored to be sealed up.

With Sintec's new mobile support system, comprising mixer, pumps, necessary pipework and holding tanks, water pressure testing system for geo-loop installations, pressure grouting attachment for the back fill of existing installations and hydraulic power take off to run jack hammers, concrete corers and geo-loop installations, you have the complete system.



Pump: **1 off CW052 W Range**

Product: **Bentonite Slurry**

Capacity: **5m³/h**

Pressure: **12 bar**

Pump Speed: **350 rpm**



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