

FORDIA®

*Helping drillers improve
their performance*

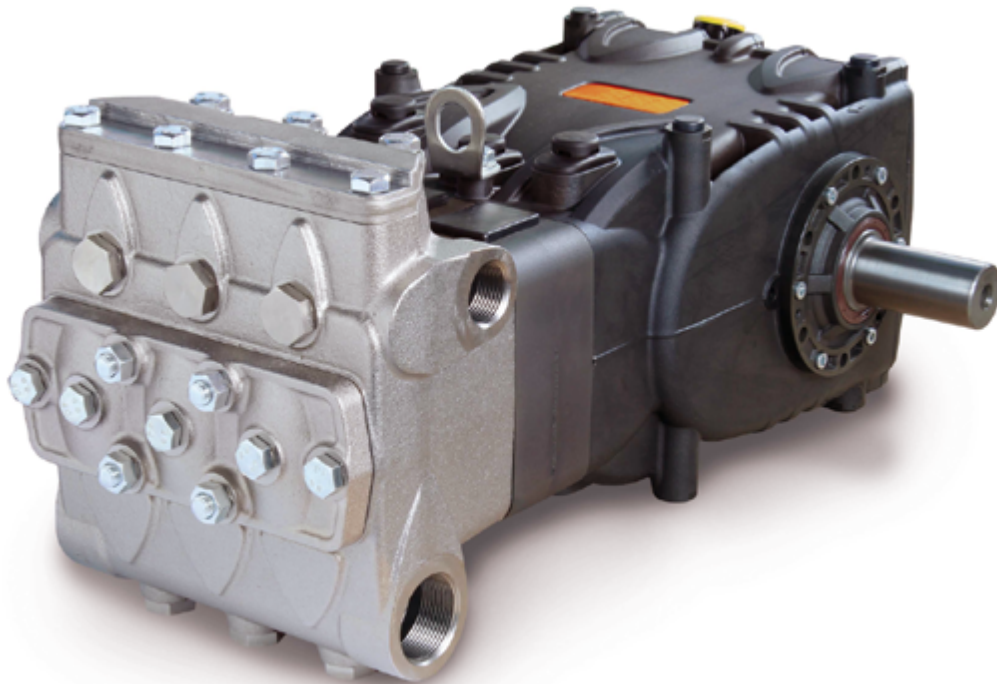
CASE STUDY

A VERSATILE MUD PUMP THAT KEEPS ON PUMPING

IN BOTH DIAMOND DRILLING
AND GEOTECHNICAL
EXPLORATION, THE CHOICE
OF EQUIPMENT IS A KEY
VARIABLE THAT AFFECTS
PERFORMANCE AND
PROFITABILITY.

THE PRODUCT

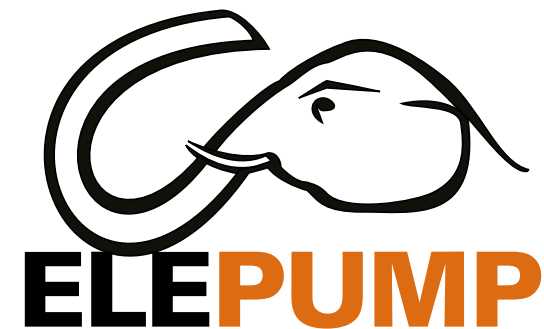
Drilling companies in both sectors are looking for a high-quality pump that can provide power and versatility. Geotechnical companies in particular want a lightweight pump that is robust enough to handle multiple applications. Fordia's customer was happy to have found exactly that in the [Elepump KF-50M mud pump](#).



ELEPUMP KF-50M

THE CUSTOMER

Forage Andre Roy (FAR) is a company in St. Isidore, Quebec that provides geotechnical, environmental, geothermal and exploration drilling services. The company has twenty years of experience working on land, water, barges, in urban centers, areas with limited access and on remote fly jobs. With a fleet consisting of various types of drills and a crew of highly trained and experienced drillers, they provide technologically advanced solutions to specialized drilling projects.

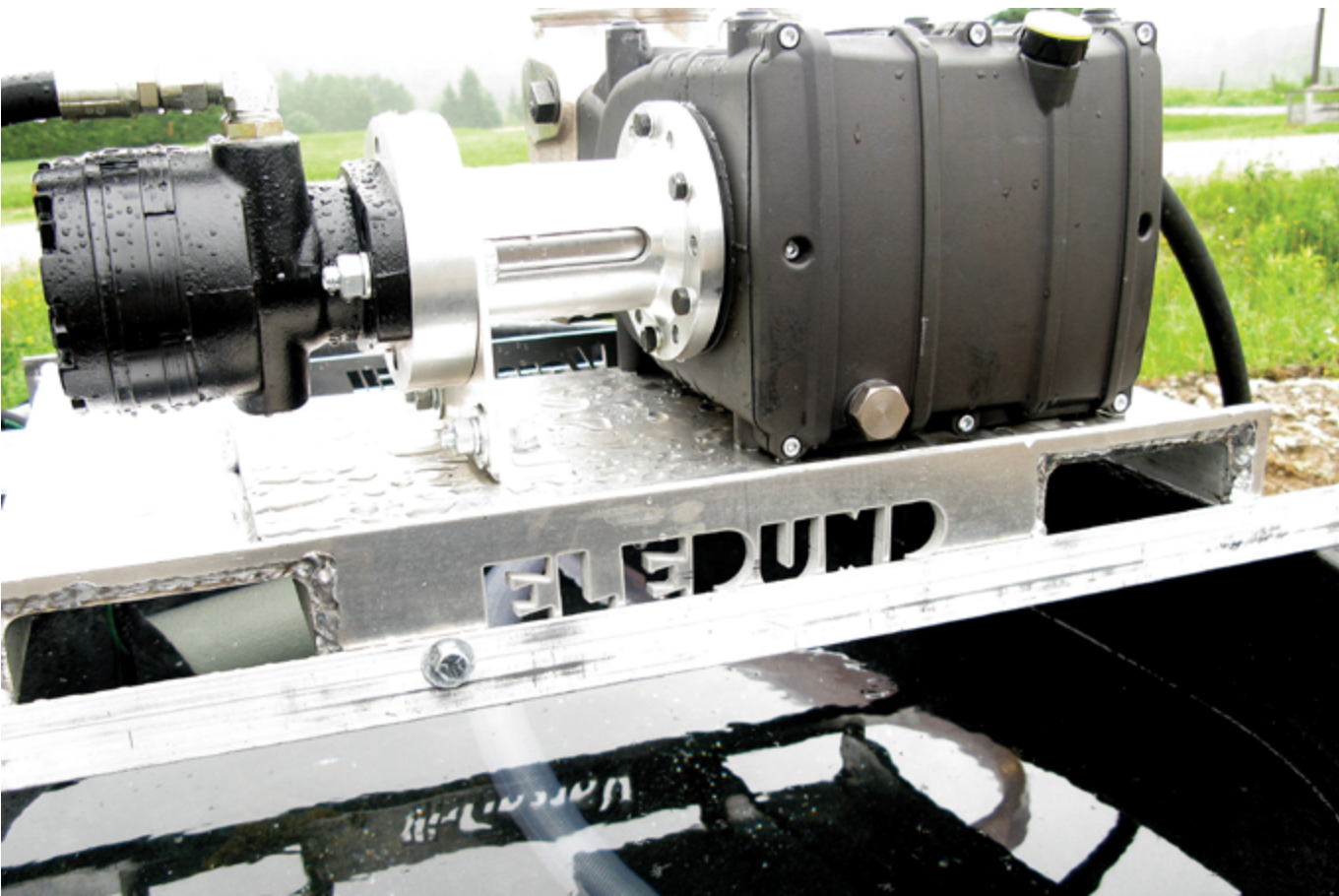


THE CHALLENGE

In geotechnical drilling, some companies use progressive cavity pumps. This type of pump works well when pumping bentonite mixes, slurries, cement and grouting material. However, these pumps are not ideal when a project calls for coring. Coring requires that the pump provides enough high pressure to flush the diamond bit properly and the typical cavity pump does not have the power to do so. To avoid having to purchase two pumps, FAR needed an all-purpose pump that could be used on geotechnical and environmental work as well as coring jobs. Luckily, Fordia had the ideal pump that was small and lightweight but with enough power to do both types of jobs.

THE SOLUTION

Fordia suggested the Elepump KF-50M, a tough drill pump that is lightweight and can be easily moved by two men. It outperforms old-style models in terms of performance and reliability and delivers high pressure and robust performance in all applications. The [KF 50M](#) is able to pump mud, bentonite, cement, and grout material using recycled water. It provides extremely smooth flow with no pulsation. The FAR team was eager to see how this pump would operate.



“HONESTLY, I COULD NOT SAY ANYTHING NEGATIVE ABOUT THE PUMP, IT HAS BEEN THREE YEARS, WITH **NO EXTRA COSTS** - WE HAVE NOT TOUCHED IT”

GAETAN DAIGNEAULT, FORAGE ANDRE ROY

RESULTS

When a pump is hard at work pumping slurries, mud and other materials, it usually needs to be opened often to change the valve seats and packing cups. A lot of debris can get caught in the valve seats and this can the pump to lose its prime and to start acting erratically.

FAR's Elepump KF-50M had been operating daily, without problems, for

nearly three years when a representative from Fordia's Technical Field Support visited their shop to perform an inspection. He found that even with daily use, there were no issues with the water head parts, and the pump was still running smoothly. With the exception of some wear on the cylinder caps, there was no visible wear on any of the valves or water head components.

In comparison, a competitor's pump that was used before would require regular removal of debris from the water head and valves. This cleaning would have to be performed weekly and sometimes daily. What's more, when other pumps hit high pressure, they can be more prone to leaking at the seals, which is not the case for the Elepump KF-50M.



CONCLUSION

The team at FAR is really pleased with the results. “Honestly, I could not say anything negative about the pump, it has been three years, with no extra costs - we have not touched it,” said Gaetan Daigneault at Forage Andre Roy. **Whether on coring jobs, casing, grouting or anything else, the little pump has not missed a beat.**

The KF50 offers additional benefits including a much smaller foot print. This makes it an ideal choice for underground rigs, fly rigs with small drill pads, or any drill rig with limited space on the deck. When you combine the reduction in downtime, and little need for maintenance, the Elepump KF-50M represents substantial cost savings. Visit Fordia for more information about the Elepump KF-50M.

