CASE STUDY

THE EXPLO 220 MAKES A MARK IN THE BIG CITY

FORDIA

"This rig is lightweight and easy to transport and it's cost-effective to run. But the main reason I love it is that it is really user friendly. Training takes very little time. It's also safer. The fact that is has an electric motor means there are no more fumes."

Dennis Mayer
Operations Manager
Aquifer Drilling and Testing

Geotechnical drillers encounter many challenges including the need to perform drilling in tight spaces. Nowhere is that more evident than in urban settings. Construction of or the repair to existing structures requires testing of ground conditions to check for stability, pollution or other factors. With building crowding, traffic congestion, and the proximity of pedestrians, moving drilling equipment to the required locations can be difficult.

Needs

New York City is one of the best examples of an extremely crowded area bustling with activity, and Aquifer Drilling had been performing geotechnical and environmental drilling in greater New York City for many years. The company is located in Mineola, NY and is a subsidiary of Cascade Environmental. Aquifer's projects often require drilling onsite in buildings to perform subsurface investigations to support design and engineering decisions. They must place their rigs in locations with restricted space.

Dennis Mayer, the Operations Manager at Aquifer Drilling and Testing, had seen a video on the EXPLO 220 from Fordia. As he would soon need to replace his older equipment, he called Fordia and asked for a demo. Fordia sent their geotechnical sales representative to demonstrate the EXPLO 220's features.

Solution

The EXPLO 220 is a light and portable drilling rig that was designed for shallow geotechnical investigation and geophysical (seismic) exploration using rotary drilling, coring, auger drilling or percussive drilling. This rig is ideal for small diameter drilling, for example, when tricones are used and when shallow depth is required. One of the great benefits of the EXPLO 220 rig is that it is made of 6 fully dismountable parts which can be easily reassembled on site in only 5 to 10 minutes. With an aluminum transport skid, you can easily transport the EXPLO 220 to any site, even those with difficult access.

As real estate is limited, Aquifer's geotechnical investigations and soil sampling often take place in the basements of buildings where space is tight or in parking garages where the overhead clearance is limited. In the past they had a fleet of rigs that were often pieced together in order to get the size and functions required.

During the demo, Aquifer was excited by the rig's power and compact size. They were also impressed by the design – the number of capabilities and the well-thought out and ergonomic components. The electric motor was also an important feature as the need to find a way to blow out the exhaust would no longer be necessary – they could simply plug the rig into the building's electrical panel.

Results

Since the arrival of their EXPLO 220, Aquifer has been able to reach greater depths in limited space, enabling them to go where their competitors cannot. Its design makes it easy and quick to assemble and easy to transport.

Drilling in tight spaces has been made easier and Aquifer Drilling and Testing has been so pleased with the rig, they ordered another one. Fordia's goal is to improve drilling performance and make drillers' lives easier.

For more information about the EXPLO 220, contact Fordia or visit www.fordia.com

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