DECENT: A Global Leader in Mobile Labs, Driving Innovation in Remote Exploration

Qingdao, Shandong Mar 1, 2026 (Issuewire.com) - Against the current backdrop, increasingly fierce global geopolitical competition and intensifying competition for key mineral resources have led to an accelerated push for mineral exploration into areas with complex geological conditions and remote locations. These resource-rich regions often present challenges to traditional exploration and sample analysis due to inadequate infrastructure and harsh environments.

However, in this era where the world urgently needs to find critical mineral resources and is committed to responsible and efficient resource development, speed and efficiency are precisely the essential elements of the mining industry.

At the same time, the global trend of digital, intelligent and green transformation in the mining industry has driven the continuous rise of attention to sustainable exploration—efficient use of resources, reduction of environmental impact, and guarantee of data transparency have become the core criteria for measuring the value of exploration projects.

In this context, remote exploration mobile laboratories that can break geographical limitations and achieve on-site accurate analysis have jumped from supplementary industry equipment to a core force reshaping the pattern of mining exploration, providing key support for the sustainable development of resources in remote areas around the world.

The Imperative for On-Site Intelligence in Frontier Exploration

The traditional fixed laboratory model is already incompetent in remote exploration scenarios. Transporting collected core samples and ore samples to central laboratories hundreds or even thousands of kilometers away not only take days or even weeks, increasing logistics costs, but also may affect data accuracy due to sample contamination and loss during transportation, leading to delayed exploration decisions and missed optimal development opportunities. More importantly, the carbon emissions generated by the transportation of a large number of samples in the traditional model and the potential impact on the ecological environment along the way are contrary to the current concept of sustainable mining development.

Industry trends clearly indicate that automated, integrated and remote exploration mobile laboratories have become an inevitable choice. By directly deploying analytical capabilities to the front line of exploration, remote exploration mobile laboratories can not only significantly shorten the testing cycle and optimize drilling strategies, but also reduce the environmental footprint of the sample transportation link, perfectly meeting the dual demands of the industry for operational efficiency and environmental responsibility.

For investors, accurate data obtained quickly on-site can improve report transparency and reduce project risks; for exploration teams, flexibly deployed mobile labs can adapt to the exploration needs of different stages, playing a role from early regional reconnaissance to detailed resource reserve exploration.

Leading Technological Innovation with Remote Exploration Mobile Laboratories

As a global leader in the field of remote exploration mobile laboratories, Qingdao Decent Group has always been at the forefront of industry transformation. With the core positioning of "empowering remote exploration through customization", it deeply integrates core technologies such as fire assay, sample preparation, and wet chemical analysis with container modular design to create mobile laboratory solutions adaptable to extreme environments around the world, injecting strong impetus into the sustainable development of the mining industry.

Relying on comprehensive strength integrating R&D, manufacturing, engineering design and global services, Qingdao Decent Group has become a trusted partner of exploration companies, geological survey teams and mining enterprises around the world. Its remote exploration mobile laboratories have been successfully deployed in remote mining areas on multiple continents around the world, becoming

the "mobile analysis hub" for local resource development.

The Ultimate in Customization

There is no “one-size-fits-all” in exploration. Our core strength is building a mobile laboratory that is uniquely configured to your mineral targets and operational workflow.

We provide purpose-built, modular solutions:

The Mobile Fire Assay Laboratory: The industry benchmark for gold and precious metals analysis, delivered to the site. This self-contained unit ensures bankable-grade accuracy for critical resource definition.

The Mobile Sample Preparation Laboratory: It integrates the whole process of preprocessing equipment such as crushing, grinding and splitting, realizing the automatic conversion of samples from the original state to analytical samples, and minimizing the pollution risk caused by manual intervention.

The Wet Chemical Analysis Laboratory: Equipped with professional wet chemical analysis equipment and ventilation systems, it can complete accurate detection of multiple elements, suitable for in-depth analysis needs of complex ore types.

Field office unit: Customized space for field work and data support, providing a professional environment for field analysts to record sample data, interpret real-time analysis data, and make timely and informed decisions that can guide the entire exploration project.

End-to-End Partner Support from Customization to Operation and Maintenance

Qingdao Decent Group deeply understands that the success of remote exploration requires not only high-quality equipment, but also reliable service guarantee. To this end, Qingdao Decent Group has built a full-process service system of "custom design - manufacturing - on-site deployment - operation and maintenance support", becoming a long-term partner of customers.

Before leaving the factory, each set of remote exploration mobile laboratories will complete comprehensive installation and commissioning, and conduct strict testing on various indicators such as equipment operation, system linkage and dust removal environmental protection to ensure that the expected standards are met before packaging and transportation; in the transportation link, relying on the standardized design of containers, it can be globally deployed through various transportation methods such as ships, trains and trucks, adapting to the logistics conditions of remote areas; after arriving at the site, based on the customer's installation requirements, our professional service team will travel to the site to complete the final installation, commissioning, equipment calibration, and personnel training, providing full support until the laboratory is operating perfectly; in the subsequent operation, through the combination of remote technical support and regular on-site inspections, equipment operation problems are solved in a timely manner to ensure the continuous advancement of the project.

Leading the Future of Mining Sustainable Exploration with Technological Innovation

With the continuous improvement of global attention to critical minerals and renewable energy supply chains, mineral exploration activities in remote areas will be further expanded, and the demand for efficient, green and accurate on-site analysis solutions will also continue to grow. Qingdao Decent Group will continue to deepen technological innovation, integrate cutting-edge technologies such as

new energy power supply on the basis of existing customization capabilities, further improve the intelligence level and environmental adaptability of mobile labs, and help customers achieve sustainable exploration in more extreme environments.

As a global leader in remote exploration mobile laboratories, Qingdao Decent Group has always taken "empowering responsible resource development" as its mission. Through custom mobile container lab solutions, it breaks the limitations of region and environment, making accurate analysis accessible. In the future, we will continue to layout technological R&D and market services from a global perspective, contribute Chinese intelligent manufacturing strength to promoting the sustainable development of the global mining industry, and consolidate its leading position in the global mining analysis equipment field.

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