

MEGA-Drain® by Paradox

*A Groundbreaking and Sustainable
Solution for Material Drying*

The MEGA-Drain® System, also known as the Moisture Eliminating Gravity Apparatus, is an innovative technology revolutionizing the way industries manage and process wet materials, particularly in sectors like mining, aggregate, and forestry. This passive, ground-installed system efficiently decants and drains materials without relying on energy-intensive methods or equipment, offering numerous benefits, including increased efficiency, cost savings, and a positive environmental impact.

How the MEGA-Drain® System Works

The MEGA-Drain® system is a multi-layered work-in-place floor and water storage vault that utilizes airflow, negative air pressure, and gravity to support a passive drainage system. The modular blocks that form the system interlock to create a void space beneath a pile of wet materials, providing a stable and robust foundation while ensuring efficient water flow. The force of gravity and head pressure generated by the weight of the materials expel water from the bottom of the pile and into the void space. From there, the water can be easily collected, reused, or disposed of according to industry standards and regulations.

HIGHLIGHTS

Average ROI

4 to 6
months

All-Season Compatible



<5%
moisture
within 24h

The Importance of Efficient Material Drying

Efficient material drying is critical for industries that handle wet materials, as a faster drying process enables them to process greater volumes of material in less time, boosting overall productivity. MEGA-Drain® significantly reduces the time and resources required for material processing, offering several benefits:

- **Cost savings:** The passive design of the MEGA-Drain® System eliminates the need for energy-intensive machinery, reducing operational costs. Accelerating the drying process also saves on storage, handling and transportation expenses.
- **Increased productivity:** A faster drying process enables industries to process greater volumes of material in less time, boosting overall productivity.
- **Enhanced material quality:** Quicker drying helps preserve material quality, which can directly impact the value of extracted resources in industries like mining.

Environmental Impact and Sustainability

The MEGA-Drain® system offers several environmental benefits, primarily due to its passive nature and efficient design. By relying on gravity and head pressure, it reduces energy consumption and lowers greenhouse gas emissions when compared to other drying methods. Its design also ensures minimal disturbance to the surrounding environment during installation and operation. Furthermore, the system facilitates responsible water resource management, as the water drained from materials can be collected and reused, minimizing demand for freshwater and

reducing the need to discharge water into the environment, potentially lowering the risk of water pollution.

Installation and Adaptability

The MEGA-Drain® system can be installed in greenfield or retrofit applications to operational facilities with minimal downtime. The system's modular design allows for easy scaling and adaptation to various projects, making it suitable for a wide range of applications and configurations.

As the only official distributor of this US-based revolutionary passive draining solution in Canada, Paradox is proud to offer this groundbreaking technology to its clients.

Conclusion

The MEGA-Drain® System is a transformative and sustainable solution revolutionizing the way industries decant and drain materials. By harnessing gravity and head pressure, this passive system accelerates the drying process, increasing productivity, reducing operational costs, and minimizing environmental impact. Its versatile design offers promising applications across various sectors, driving innovation and progress towards a more sustainable future in resource extraction and processing — all while providing an average ROI of 4-6 months.

Let us help you

Want to learn more about how the MEGA-Drain® system can help increase efficiency and decrease costs for your operation?

Visit us at paradoxaccess.com or call **1.877.MUD.UGLY** to learn more.