

POWEROL®

CEMENT SANDWICH PANEL PLANT



India's Leading manufacturer of **Make in India**
superb quality Construction Machinery - Cement
Sandwich Panel Plant established in Chennai

INDIA'S CONSTRUCTION MACHINERY MANUFACTURER

www.powerol.com

sales@powerol.com

+91 97907 85958

CEMENT SANDWICH PANEL PLANT

A cement sandwich panel plant, also known as a cement board plant or cement panel production facility, is an industrial facility that manufactures cement sandwich panels. Cement sandwich panels are building materials consisting of a layer of cementitious material (such as cement, calcium silicate, or gypsum) sandwiched between two layers of reinforcing materials (typically fiberglass mesh or other types of reinforcement). These panels are used in construction for walls, partitions, ceilings, and other applications.

Cement sandwich panels offer several advantages in construction, including high strength, fire resistance, thermal insulation, and soundproofing properties. They are lightweight compared to traditional construction materials like bricks or concrete blocks, making them easier to handle and transport. Additionally, they can be prefabricated off-site, reducing construction time and labor costs.

Cement sandwich panel plants play a crucial role in producing these panels on a large scale to meet the demand of the construction industry.

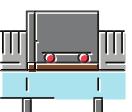
FEATURES



Automated Production



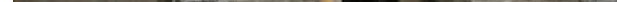
Customization & Flexibility



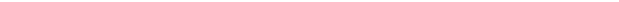
Material Handling Systems



Energy Efficiency



Quality Control



Safety Measures



Environmental Considerations

POWEROL - INNOVATION IN CEMENT SANDWICH PANEL PLANT

Powerol specializes in the design, production, and supply of a comprehensive range of machinery for lightweight cement sandwich wall panel production. The panel making machine and mixing system are pivotal components within the wall panel manufacturing facility.

The panel making machine is equipped with multiple partition chambers that can be filled with slurry once the mixing process is finished. Additionally, the wall panel machine is designed to automatically recline and elevate using a hydraulic unit. This innovative functionality of the mold car enhances production efficiency and reduces labor intensity.

The capacity and production scale of the EPS lightweight cement wall panel plant are determined by the number of panel making machines/mold cars. The greater the quantity of panel mold cars, the higher the capacity of the wall panel production. Typically, a single wall panel production line is equipped with 10 to 30 sets of wallboard mold cars.

the automatic vertical wall panel mold car type plant serves as the ideal solution and a practical choice. This particular type of wall panel production line typically features 20 to 50 sets of automatic wall panel mold cars, allowing for an annual panel productivity ranging from 300,000m² to 700,000m².

POWEROL PANEL PRODUCTION MACHINERY

Panel Making Machine

This machine is responsible for forming the cement sandwich panels by combining various materials, such as cement, Ash, GGBS, Gypsum, Aluminium Powder and other additives.

Mixing System

The mixing system is used to blend the cement, ash, and other components together to create the slurry or mixture required for panel production.

Mold Car

The mold car is an essential component that holds the panel molds and allows for the pouring of the slurry. It can be designed to have multiple partition chambers.

Ferry Cart Machine

Once the panels have solidified, a cart machine is employed to move them for curing

Curing Chamber

The curing chamber provides the ideal environment for the panels to cure and gain strength. It may incorporate temperature and humidity control systems.

Demolding Machine

The demolding machine is used to remove the cured panels from the molds, ensuring they are ready for further processing or packaging.

ADVANTAGES

Powerol plants cement panels offer excellent durability and strength. They are resistant to fire, water, and pests, making them a reliable choice for various building applications. The panels also exhibit high impact resistance, reducing the risk of damage and ensuring long-term structural integrity. Additionally, cement panels have low maintenance requirements, reducing ongoing costs and effort for building owners.

The precise control and consistency in panel dimensions and quality contribute to faster installation and construction, saving both time and labor expenses. Furthermore, cement panels are lightweight, allowing for easier handling and transportation, resulting in improved logistics and reduced construction time on-site.



POWEROL[®]

HO - TS-70, Industrial Estate, Ekkattuthangal, Chennai 600032

Unit 1 - Survey No 38/2 & 38/3, Keelapattu Village, IIDC Nagari, AP 517590

Unit 2 -Survey No 354, Kaverirajapuram Village, Tiruvallur Dist, TN 631210