




Weightrack



M/s. WEIGHTRACK INDIA PVT. LTD. is an ISO 9001:2015 Company. We manufactured world class products to meet our all-customer needs with commitment. Our Company is established in 1999 for manufacturing, sales and service supports of Weighing solutions, Weighing instruments, Industrial Weighing automation, Solar system along with Industrial automation logistics management system, Automatic traffic management system and Toll management system. We are a family of more than 4000 happy clients, which is a motivational number for us to keep up with meeting quality commitment.



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Concrete Weigh Bridge



Overview

A concrete weighbridge is a large-scale weight scale used to determine the weight of heavy vehicles, including trucks, trailers, or containers, generally in industrial, commercial, or logistics-based settings. Concrete weighbridges are made for resilience and longevity, making them ideally suited for use in adverse conditions, which is critical for construction, mining, agriculture and transportation industries.

KEY FEATURES: -

Construction

- ✦ Made from reinforced concrete, ensuring durability, stability, and resistance to heavy loads.
- ✦ The concrete base is designed to be permanently installed, offering resistance to harsh weather conditions and heavy traffic.

Platform Size

- ✦ Available in various sizes, typically ranging from 7 meters to 24 meters in length, depending on the vehicles to be weighed.
- ✦ Common widths range from 3 meters to 4 meters to accommodate different vehicle types.

Load Capacity

- ✦ Concrete weighbridges can handle up to 100 tons or more, making them suitable for weighing large trucks and vehicles.
- ✦ They are designed for high-traffic areas where frequent weighing is required without compromising accuracy.



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Accuracy & Precision

- ↳ Equipped with high-precision load cells that ensure accurate weight measurements.
- ↳ Offers accuracy down to 10 kg or less, depending on the model.

Safety Features

- ↳ Equipped with safety rails, ramps, and anti-slip surfaces to ensure secure vehicle access and prevent accidents.
- ↳ Anti-vibration measures to minimize interference from vehicle movement and improve weighing accuracy.

Benefits

- ↳ Concrete construction makes it resistant to wear and tear, extending its lifespan.
- ↳ Ensures accurate weight readings that comply with regulatory standards.
- ↳ Ideal for heavy-duty applications where extreme weight capacities and reliability are required.
- ↳ While the initial investment might be higher, concrete weighbridges are low-maintenance, making them cost-effective in the long run.

Installation Process

- ↳ Casting the civil foundation works as per the civil plan drawings provided by Weightrack india pvt ltd.
- ↳ Placing the Modular Weighbridge onto the civil works and setting up load cell mounting positions ensuring that the weighbridge is perfectly aligned for accurate weighing.
- ↳ After installation and calibration, load testing is crucial to ensure the weighbridge functions correctly under the department of legal metrology. A variety of vehicles with different weights should be tested to confirm the weighbridge's accuracy.

Regulatory Compliance During Installation

- ↳ **Permits and Approvals:** Before installation, ensure that all necessary permits are obtained. Some locations may require approval from local authorities or regulatory bodies to ensure compliance with safety and environmental standards.
- ↳ **Compliance with Standards:** The installation must meet all relevant local and international standards for weighbridge construction and operation. This ensures not only the accuracy of measurements but also safety during operation.

Conclusion

- ↳ The installation of a concrete weighbridge is a highly involved process requiring careful planning, precise execution, and attention to detail. From site selection and groundwork preparation to electrical wiring and calibration, each step is critical to ensuring long-term functionality, accuracy, and safety. By considering all these installation factors, businesses can ensure the successful integration of a weighbridge that meets operational needs and regulatory requirements.



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