

Weigh In Motion system to check overloading



Weigh while in motion



Commissioning of Axle Weigh Bridge



Ashbee Model - WIM in Multilane Toll plazas



Indicator & Controller

Ashbee manufactures in India weigh in motion axle weigh bridges (ASHBEE MODEL - WIM) This is world's most advanced axle weighbridge system. It is designed to provide fast and accurate axle and gross weight information for all vehicle types from light vans to heaviest multi axle trucks. This system weighs at speeds up to 15 Km/hr.

The system is fully programmable to meet a wide range of applications including overload prevention and fleet management.

The maximum permissible weight for any vehicle can be stored in its memory and compared automatically with those found when a particular vehicle is weighed. The driver and operator can see immediately if the vehicle is loaded safely and legally thus avoiding fines, delays and prosecution.

Governments in many countries are now aware of the tremendous reductions in road damage and accidents that can be achieved by operating vigorous overload detection.

Roads get damaged when overloaded vehicles pass over it. The effect of wear on the road of one 38 ton six axle lorry with legal axle weights is the same as 35000 cars. Axles overloaded by 20% can do up to 8 times the road damage of a correctly loaded axle. The best system to check over-loading is an axle weighbridge.

Why weigh in motion?

To prevent damage to the roads, it is important to ensure that the vehicles are not overloaded. The Indian Road Congress prescribes limits to which each vehicle can be loaded (each axle and also the gross weight). It is one axle which is passes over to certain area of the road at one time. If this axle is overloaded, it causes extensive wear and tear and damage. It is therefore very important to weigh each axle. Total of axle weights gives the gross weight. Since, vehicular movement cannot be stopped, weigh in motion systems speed up the weighing

process. The vehicles are weighed while they are in motion and passing over the scale installed on the road.

The systems are usually installed at border check posts, ports, toll plazas, entry point for bridges/tunnel/underpass etc.

Why does overloading occur?

- **IGNORANCE**
(Not understanding vehicle weights and limits)
- **NEGLIGENCE**
(No care taken with loading procedures)
- **PROFIT**
(Adding just 2 tons to a 20 ton truck load saves 1 load in 10, with savings in fuel and wages)

Technology:

There is deck structure fitted with four load cells. It is heavy duty capable of weighing up to 40 tone axles. Load cells are usually of stainless steel, hermetically sealed to IP68 protection. This deck along with the load cell are installed and embedded in the road or the access path. The deck is embedded on a suitable base through a process of civil construction. The approach and exit from the deck is a concrete base, aligned with the deck. The deck is connected to a suitable instrumentation which has necessary electronic control circuitry. The instrumentation is suitable for outdoors with IP66 protection. This control unit can be connected to a high visibility display (Optional) of suitable height so that it can be viewed in daylight from a distance. The capacity of the axle weigher is 40 tons which means each axle can weigh upto 40 tons. Trucks of any dimension or any number of axle can be weighed in one go. The electronic control unit counts and displays the number of axles, weight of each axle and the total weight of the vehicle. The type classification and the permissible axle loads are pre-fed into the system. Whichever axle is overloaded it gets displayed on the system and the results can also be printed on a attached optional printer. The system can optionally be connected to Bar Code or RFID devices for automatic vehicle identification and tracking.

For more information or a quotation please contact us via email at info@ashbee.com or at:

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