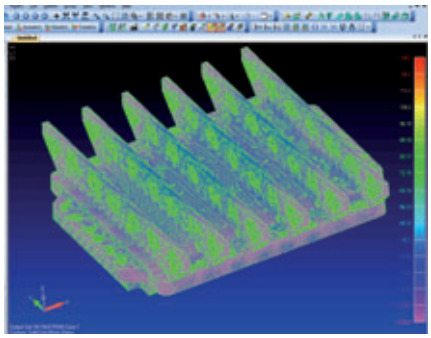
Masa AG, 56626 Andernach, Germany

Innovation in Vibration - New Vibration Table in Aluminium

Following intensive development and a subsequent testing and trial phase in practical use, Masa presented a new generation of vibration tables at bauma. This is a technical innovation that is unique in the manufacture of concrete blocks and gives producers of building materials a crucial competitive advantage. Several Masa customers are already using the new aluminium table.

The company impressively showcased the many different facets of the new table at the trade fair: Energy saving on one hand and an increase in the vibration forces on the other. In addition to this, there was also a presentation of concrete products which had been manufactured on the Masa block making machine with aluminium vibration table. These were large blocks that cannot be produced in this way using steel vibration tables.



Vibration table in the development stage modelled by the finite element method

The aim when developing the aluminium vibration table was to achieve a significant weight reduction in order to obtain high compaction forces with the same vibration setting. Conversely this means that the same product characteristics can be achieved with less energy. This crucial advantage is already being put to use in vehicle construction, aviation and aerospace and meets the highest requirements of these industries. Aluminium has a density of 2.6 to 2.8 g/cm³ (for pure aluminium 2.7 g/cm³) around one third that of steel. The low density results in considerable reductions in mass in the case of mobile structures such as the newly developed vibration tables.
Special alloys that lead to optimum strength properties in individual cases were chosen for the innovative Masa aluminium vibration table. Excellent workability also enables outstanding and fast machining of the table during production.

Advantages of the new table at a glance

Weight saving

The use of aluminium leads to an approx. 25% reduction in the weight of the vibration table.

Vibrator Forces

At the same time the vibrator forces can be increased by approx. 25%.

Compaction

Improved compaction of the concrete is achieved with the new material, i.e. it is possible to achieve product characteristics that have not been achieved previously. (Strength, production to exact heights, large sizes, etc.)

Energy Consumption of Vibration

Compared to the conventional steel vibration table, energy consumption decreases by approx. 10-15% depending on the products.

FURTHER INFORMATION

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Milestone to your success.

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Presentation of the vibration table at bauma 2010

Products made on Masa XL 9.1 with aluminium vibration table, max. product size manufactured at present 1000 x 240 x 623 mm (length x width x height)