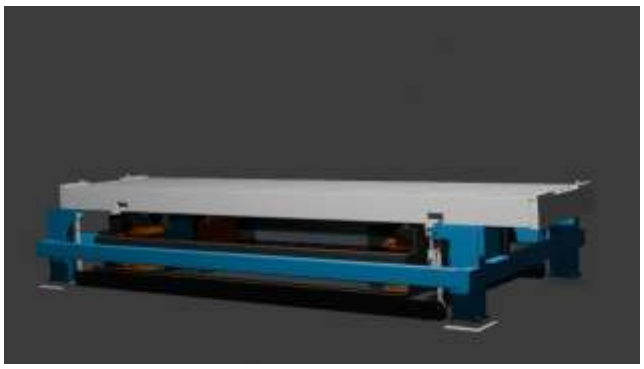
HIGH-PERFORMANCE VIBRATING TABLES

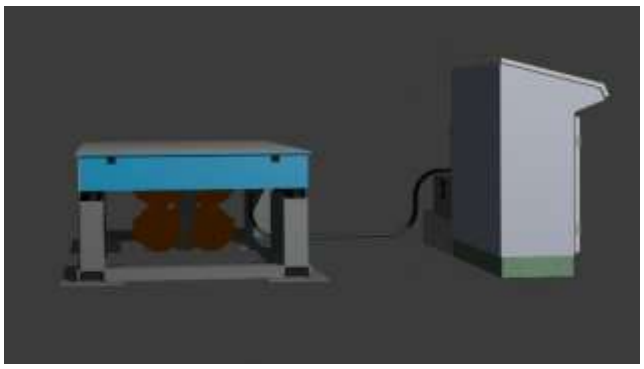
The Fameto company has developed vibrating tables for its UNIVERSA vibro-press machines, called "OMOCRONOS", with great performance, which allows the control of the amplitude and frequency of the vibration.

It has also developed low frequency shaking tables, dedicated to products made with cast concrete, where the movement of the mold is substantially horizontal.

To meet specific needs, Fameto also offers vibrating tables for concrete products, to be used for production with metal molds.



Low Frequency shaking table 3-6 Hz – Amplitude 5-25 mm



Vibrating Table 50-75 Hz – Amplitude 0.1-0.6 mm

Whether it should be cast concrete or vibrated concrete, vibrating systems must provide the energy necessary to induce a reduction in viscosity in the concrete and allow the mold to be completely filled, letting out the incorporated air.

This energy must be carefully regulated to prevent local or global resonance phenomena from occurring, leading to disintegration phenomena in the concrete, as well as breakage in the moulds.









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Most of vibrating tables offered on the market allow the control of the working frequency only. This method allows you to move away from the resonant frequency of the mould but, does not adapt the ideal vibration power for the type of concrete used for the chosen frequency.

THE OMOCRONOS VIBRATING TABLE

The "OMOCRONOS" vibration table consists of a vibration system with four vibrating axes. The construction is made of welded steel, and the deck is heat-treated to eliminate internal tensions.

Four electric vibrators are installed on this "cube" synchronized by encoder and automation. These vibrators generate a linear (horizontal or vertical) or circular vibration, in a synchronized manner.

The system, in harmony with the control automation, allows continuous adjustment of the vibration amplitude and frequency during production. The control system is simple and intuitive.

The system starts and shuts down without centrifugal force, which is activated in a fraction of a second when the chosen working frequency is reached. With this system, excessive amplitudes due to resonance are eliminated.

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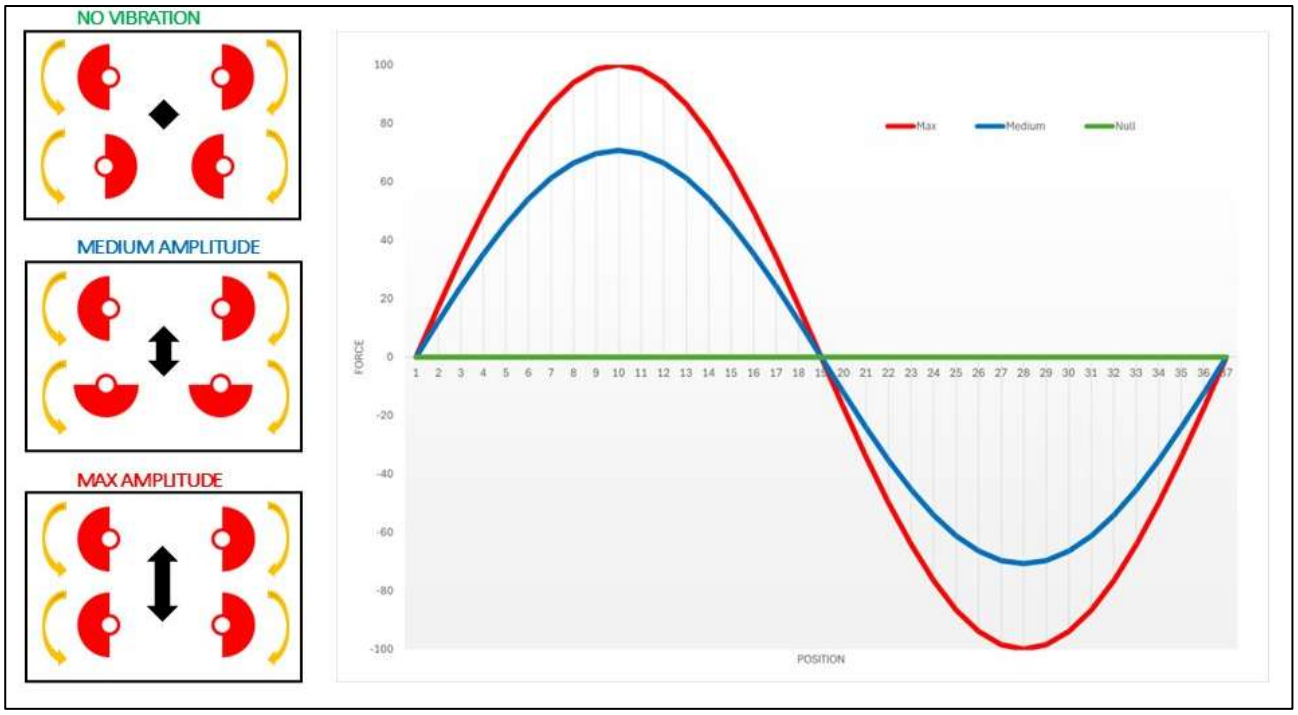
The "OMOCRONOS" shaking table allows a regulation that solves problems related to local resonances in the moulds, improving energy transmission. The result is a longer life of the mould and a higher quality of the concrete product made.

In the figure below you can see the control principle of eccentric masses that realize the possibility of managing vibration in a way that is effective.



Contact us with your issues!

We are pleased to provide you with our solution.

Kind regards

Gerardo Rossetto

In cooperation with

IFAMETO

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