Schwingungstechnik GmbH MOOSER

for intelligent solutions at the construction site

Vibration Motors

The vibrator for all formwork systems and for tunnel, bridge, building or industry constructions













DOMESLE Stahlverschalungen · meva · doka · HÜNNEBECK · Huber-sohn Schalungsbau · DIE SCHALUNG NOE · JORIMAN · PERI · REBER System-Schalungen

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Schwingungstechnik GmbH
MOOSER

The vibrator for all formwork systems

Intelligent solution for the concrete compaction

Requirement for external vibrators

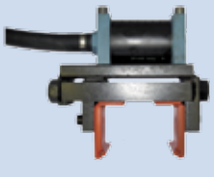
- for dense reinforcement
- for extremely thick walls
- for security demands at buildings (e.g. nuclear power plants)
- for undercut contructions
- for wall inclinations and angles
- for extremely high walls
- for extraordinary architect demands

weight: vibrador + mounting clamp: 9-12 kg

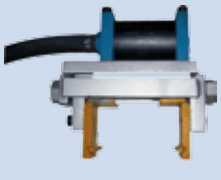
Intelligent solution for the construction of fair-faced concrete

- The vibrator positions at the formwork are dependend on the formwork type, the amount of reinforcement and the wall thickness. They should be provided by the manufacturer of the vibrators.
- The construction site will need a 4-6m³/min air compressor in order to operate the vibrators. The compressor is an all-purpose energy source which is often used for other site operations.

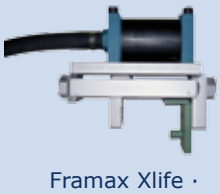
Formwork specific mounting clamps



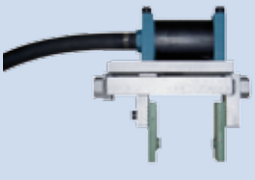
Mammut · Startec



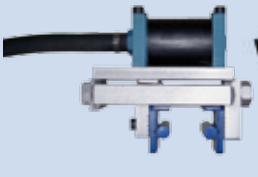
Framax Xlife



Framax Xlife · Manto · Primax AT



Primax TT



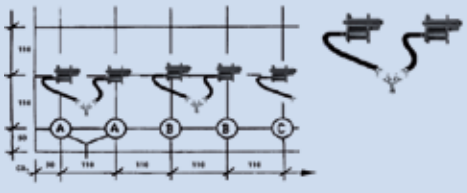
Frami

Domino / BFD

Vibrating scheme

Schwingungstechnik Druckluftanbauvibratoren

vibrating scheme to compact concrete by use
of pneumatic external vibrators
size of compressor 4-6m³/min
minimum slump approx. 170 mm

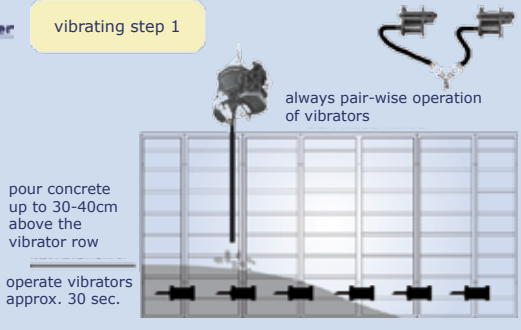


vibrating step 1

always pair-wise operation of vibrators

pour concrete up to 30-40cm above the vibrator row

operate vibrators approx. 30 sec.

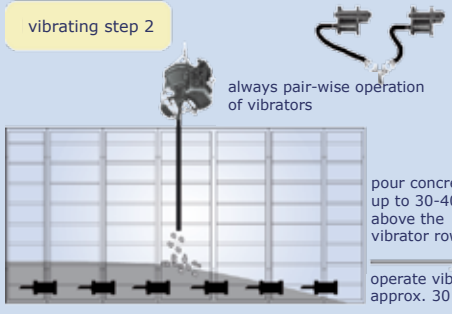


vibrating step 2

always pair-wise operation of vibrators

pour concrete up to 30-40cm above the vibrator row

operate vibrators approx. 30 sec.

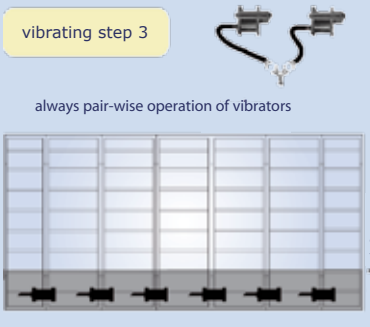


vibrating step 3

always pair-wise operation of vibrators

pour concrete up to 30-40cm above the vibrator row

operate vibrators approx. 30 sec.

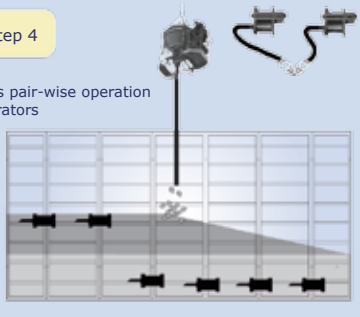


vibrating step 4

always pair-wise operation of vibrators

pour concete up to 100-120cm avove the vibrator row

operate vibrators approx. 1 min.

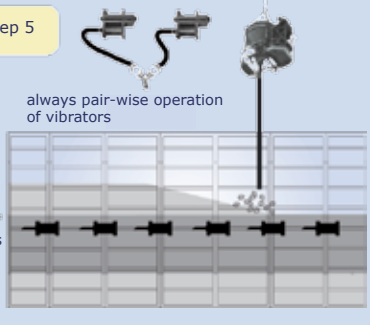


vibrating step 5

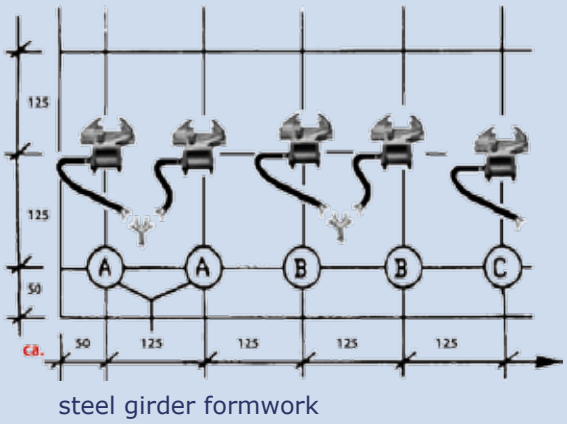
always pair-wise operation of vibrators

pour concrete up to 40-50 cm above the vibrator row

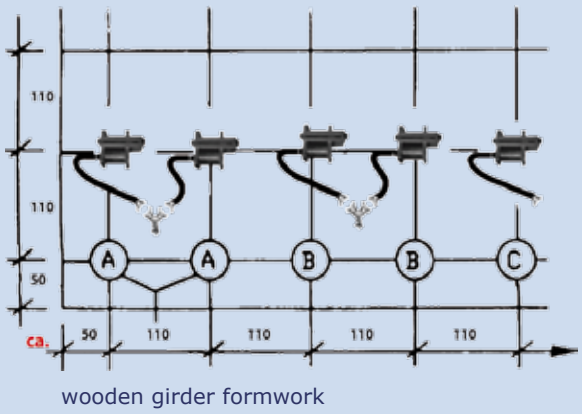
operate vibrators approx. 30 sec.



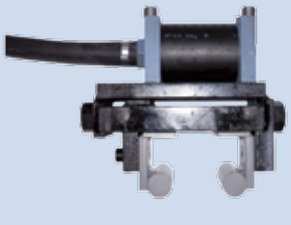
Mounting scheme for Mooser pneumatic external vibrator VR56K



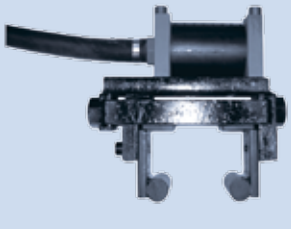
steel girder formwork



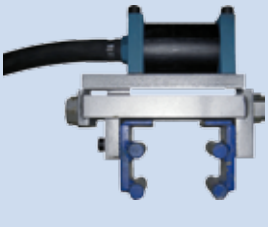
wooden girder formwork



H20 · VT20K



GT24 · GF24



Noetop

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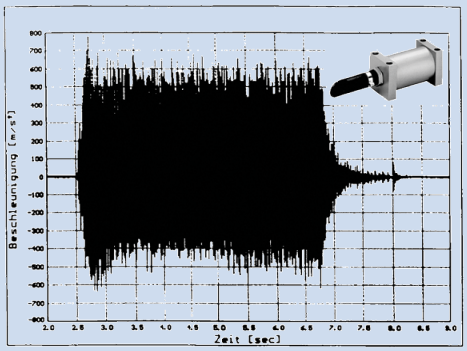
Pneumatic vibrator



Low mechanical load to the formwork.
The natural frequency range of the formwork is driven through at once.

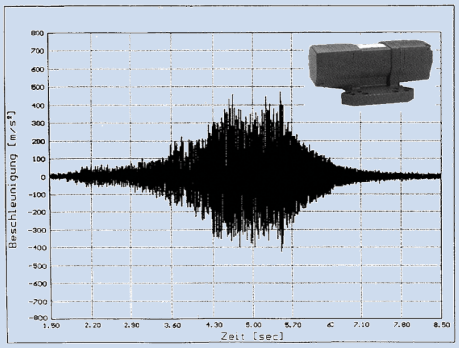
The use of an air valve enables a **stepless and cost saving frequency regulation** of the pneumatic vibrators. The compressor is a dual-energy source for many applications at the construction site.

The weight of the pneumatic vibrator is approximately **3,5 kg** (not including the mounting clamp).

In case of prior customer advice on the slump, **compaction depths of more than 50cm** can be achieved.

The vibrators are suitable for operation during the winter season. **Icing of the vibrators can be excluded**, if they are lubricated with some hammer oil.

Electric vibrator



High mechanical load to the formwork.
The natural frequency range of the formwork cannot be driven through at once, due to the design including shaft bearings.

A stepless frequency regulation by using a **frequency converter** is **more expensive** than using an air valve.

The weight of an electric vibrator with the same power as a pneumatic vibrator is about **12 kg** (not including the mounting clamp).

In case of prior customer advice on the slump, **compaction depths of about 25cm** can be achieved.

The vibrators are suitable for operation during the winter season.

For the **application at the construction** site the **pros of the pneumatic vibrators** outweight the cons.
Applications fields for electric external vibrators: precasting industry and industry

Know-how · consulting service · accessory material - all from one source

- We take over the planning of the vibration motors application with regard to the formwork system, the local conditions and the concrete technology.
- We equip all formwork types (panel and girder formwork, formwork carriages for tunnel and duct constructions) with our external vibrators.