



APS TECHNOLOGY AUSTRALIA

*Electromagnetic
Vibrators for bulk
dislodging*

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ELECTROMAGNETIC VIBRATORS WITH REMOTE MONITORING

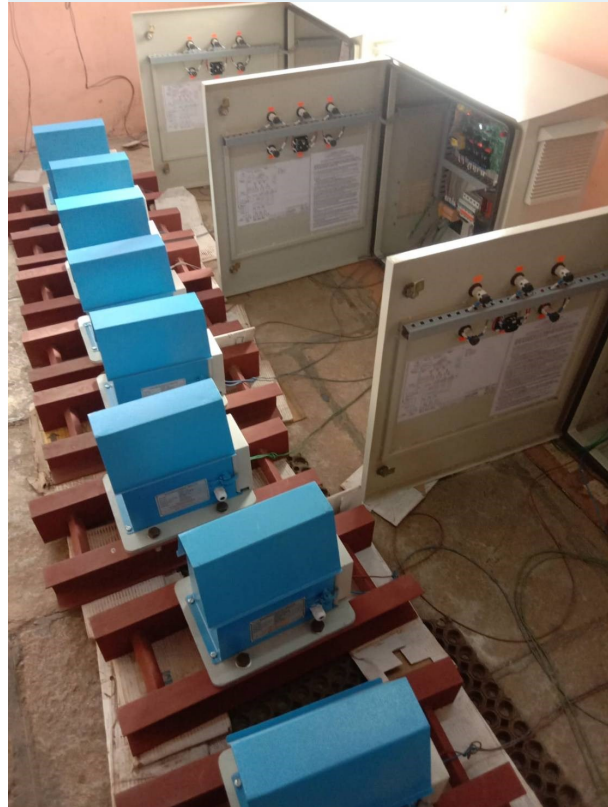
This has proved effective for a wide range of applications. Most commonly used on hoppers and silos to maintain the flow of materials, industrial vibrators offer an economical method of generating vibrations when required.



APPLICATIONS

- Chemical Plants: To controlled flow of ingredients to mixing tanks.
- Foundries: For the addition of binders and sand processing systems.
- Ceramic Industries: For controlled ingredients in batch processing.
- Pulp and Paper Industries: Chemical additives feeding in batch processing.
- Metal: Feeding metal parts to heat treating furnace.

Designed and developed by APS Technology Australia.
Specification subject to change without notice.



FEATURES

- Powerful dual magnet [750 Watt] EMV.4 covers large surface area on hopper slope.
- 110/220/440 VAC 50/60 Hz operation possible.
- 0-100% amplitude control via zero crossing. Opto isolation by microcontroller TRIAC firing with soft start to avoid starting current load for each channel.
- Sequence of upto 4 vibrators from one fan cooled, control panel.
- Auto thermal shutdown in the event of excessive temperature rise in control transformer for 440 VAC & generation of alarm ready output.
- Detects vibration fail condition & outputs alarm relays for PLC.
- PLC feedback operation with local or remote options.
- Max current control potentiometer on board
- Microcontroller independent On/Off potentiometric timer control common to all channels.

SPECIFICATIONS

- Vibrator Specification. No of Vibrators per Hopper:4/3/2 depending on the Hopper size, dust loading & hopper outlet opening,
- No of Vibrator controller in one panel:4 Nos.
- Type: Electromagnetic dual Coil
- No. of vibrations/minute 3000 vibration/minute
- Amplitude of vibration:5 mm
- Variation of amplitude:0-100% via potentiometer for each channel
- Power consumption:750 Watts/channel output (max)
- Vibration coil voltage:20 +/- 10%, 1 Phase, 50 Hz/60 Hz
- Timer:On/Off microcontroller-based timer provided
- On Time:15 sec to 90 sec (adjustable)
- Off Time:15 sec to 3600 sec (adjustable)
- Soft Start Time:Built in 12-15 sec for all channels
- Thermal Shutdown:Panel automatically shuts down if power supply transformer reaches 75°C. This feature is provided via NTC thermistor provided with all transformer assemblies
- Vibrator power control Provided for each channel intensity control from 0 to 100%. (Red knob)
- Vibrator feedback control Provided for each output to sense its operational functionality via optoisolated voltage feedback. (This is an optional feature)

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