

## Electrodynamic vibrators

### Description

Facilities used to provide translational oscillation.

Used for production of sinusoidal, random or recorded vibration time-histories.

### Applications

Fundamental and applied research in many areas including human comfort and perception.

Standardised vibration tests.

Testing to specific requirements of the customer.

### LDS 86o High Z

#### Outline specification

Displacement:  $\pm 13$  mm

Acceleration:  $\sim 500$  ms<sup>-2</sup> peak

Frequency range: 0.5 to 2000 Hz

Table diameter: 610 mm

Maximum load: 680 kg



### Derritron VP18o LS

#### Outline specification

Displacement:  $\pm 25$  mm

Acceleration:  $\sim 300$  ms<sup>-2</sup> peak

Frequency range:  $\sim 1.0$  to 200 Hz

Table diameter: 152 mm

Maximum unsupported load: 91 kg



### Derritron VP 85

#### Outline specification

Displacement:  $\pm 13$  mm

Acceleration: 550 ms<sup>-2</sup> peak

Frequency range:  $\sim 1.0$  to 5000 Hz

Table diameter: 178 mm

Maximum unsupported load: 38.5 kg



### **Derritron VP30**

#### *Outline specification*

Displacement:  $\pm 5.7$  mm  
Acceleration:  $\sim 400 \text{ ms}^{-2}$  peak  
Frequency range:  $\sim 1.0$  to 4500 Hz  
Table diameter: 146 mm  
Maximum unsupported load: 23 kg



### **Derritron VP4**

#### *Outline specification*

Displacement:  $\pm 3$  mm  
Acceleration:  $250 \text{ ms}^{-2}$  peak  
Frequency range:  $\sim 1.0$  Hz to 10 000 Hz  
Table diameter: 68 mm  
Maximum unsupported load: 1.8 kg



### **G&W M50**

#### *Outline specification*

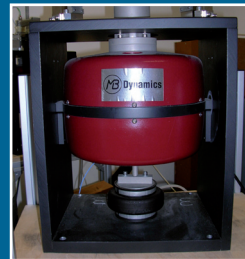
Displacement:  $\pm 12.7$  mm  
Frequency range:  $\sim 1.0$  to 1000 Hz  
Post diameter: 20.6 mm



### **MB Dynamics Energizer Red**

#### *Outline specification*

Displacement:  $\pm 1.3$  mm  
Frequency range:  $\sim 1.0$  to 500 Hz  
Table diameter: 114 mm



### **Kimball Industries 7020 Slip table**

#### *Outline specification*

Displacement:  $\pm 25$  mm  
Frequency range: 0 to 500 Hz  
Table dimensions: 610 mm by 610 mm  
Maximum load: 1814 kg



**Other vibrators** Derritron VP75, LDS 403