

# Shock & Vibration Test Systems

## G-5 Series

Seismic

Transportation

Electric & Electronic Apparatus

Vehicles

Others



G-5125N

### Up To 4,900m/s<sup>2</sup> (500G) Shock Tests Possible

A unique structure of light movable mass and large displacement permits for shock tests with quite high acceleration and long duration, featured by high fidelity of controlled shock waveforms.

### Bump Tests Easily Achieved

Easy setting of the number of times of shock waveforms and interval time makes Bump Tests easily achieved, thus beating conventional Shock Test Machines in a way.

### Up to 260mmp-p Displacement Available

The other feature of G-5 Series, large displacement up to 260mmp-p also allows for seismic simulation.

■ Air-cooled ■ Air Bearing

| System Model |       | Max. Force Output              | Max. Acceleration      | Max. Velocity | Pulse Width | Max. Displacement | Frequency Range* | Table Size | Mov-able Mass | Max. Pay-load | Vibration Generator |                       | Power Amplifier |                       | Power Re-quired | Cooling System        |
|--------------|-------|--------------------------------|------------------------|---------------|-------------|-------------------|------------------|------------|---------------|---------------|---------------------|-----------------------|-----------------|-----------------------|-----------------|-----------------------|
|              |       | [kN (kgf)]<br>[kNrms (kgfrms)] | [m/s <sup>2</sup> (G)] | m/s           | msec        | mm p-p            | Hz               | mm         | kg            | kg            | Model               | Dimensions (W×D×H mm) | Model           | Dimensions (W×D×H mm) | kVA             | [m <sup>3</sup> /min] |
| G-5125N      | Sine  | 1.8 (179)<br>*1.1kg load       | 706 (71)               | 2             | 1 ~ 70      | 150               | 3 ~ 2000         | 65 × 65    | 1.4           | 20            | G22-125N            | 570 × 475 × 758       | G14-007         | 570 × 710 × 1835      | 10              | Air (8)               |
|              | Shock | 7.5 (765)                      | 4900 (500)             | 3             |             |                   |                  |            |               |               |                     |                       |                 |                       |                 |                       |
| G-5150N      | Sine  | 4.2 (428)<br>*0.5kg load       | 706 (71)               | 2             | 1 ~ 100     | 200               | 3 ~ 2000         | 150 × 150  | 5.5           | 50            | G22-160N            | 548 × 676 × 877       | G14-014         | 585 × 1000 × 1835     | 18              | Air (10)              |
|              | Shock | 15 (1530)                      | 2726 (278)             | 3             |             |                   |                  |            |               |               |                     |                       |                 |                       |                 |                       |
| G-5212N      | Sine  | 8.4 (857)<br>*1kg load         | 706 (71)               | 2             | 1 ~ 70      | 150               | 3 ~ 2000         | 150 × 150  | 11            | 150           | G22-212N            | 660 × 742 × 811       | G14-021         | 585 × 1000 × 1835     | 28              | Air (15)              |
|              | Shock | 24 (2450)                      | 2182 (222)             | 3             |             |                   |                  |            |               |               |                     |                       |                 |                       |                 |                       |
| G-5220N      | Sine  | 14 (1428)                      | 1078 (110)             | 2             | 1 ~ 50      | 100               | 3 ~ 1400         | 200 × 200  | 13            | 150           | G22-220N            | 852 × 1015 × 1063     | G14-028         | 585 × 1000 × 1835     | 40              | Air (20)              |
|              | Shock | 35 (3570)                      | 2691 (274)             | 3             |             |                   |                  |            |               |               |                     |                       |                 |                       |                 |                       |
| G-5230N      | Sine  | 21 (2143)                      | 657 (67)               | 2             | 1 ~ 100     | 200               | 3 ~ 1400         | 200 × 200  | 32            | 370           | G22-230N            | 940 × 994 × 1027      | G14-042         | 1170 × 1000 × 1835    | 60              | Air (22)              |
|              | Shock | 61.2 (6250)                    | 1914 (195)             | 3             |             |                   |                  |            |               |               |                     |                       |                 |                       |                 |                       |
| G-5230NS     | Sine  | 21 (2143)                      | 598 (61)               | 2             | 1 ~ 100     | 260               | 0.4 ~ 1400       | φ 300      | 35            | 370           | G22-230NS           | 930 × 1002 × 1212     | G14-042         | 1170 × 1000 × 1835    | 60              | Air (22)              |
|              | Shock | 61.2 (6250)                    | 1856 (189)             | 3             |             |                   |                  |            |               |               |                     |                       |                 |                       |                 |                       |
| G-5250N      | Sine  | 34 (3500)                      | 647 (66)               | 2             | 1 ~ 100     | 260               | 0.4 ~ 1000       | φ 360      | 52            | 370           | G22-250NS           | 1225 × 1218 × 1555    | G14-063         | 1000 × 1755 × 1835    | 90              | Air (60)              |
|              | Shock | 85.7 (8750)                    | 1649 (168)             | 3             |             |                   |                  |            |               |               |                     |                       |                 |                       |                 |                       |

- \*For low-frequency tests such as seismic simulation, a relevant accelerometer or servo sensor and a low-frequency use charge amplifier are needed (also for seismic tests, relevant foundation is recommended).
- For the air-cooled systems with a force output of over 20kN, it is recommended that the hot air from the cooling blower be sent to outside.