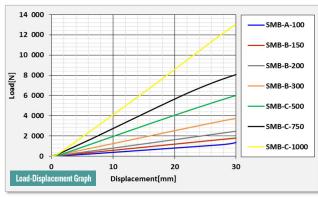
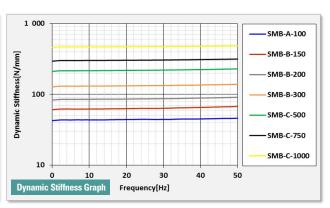
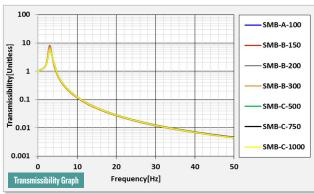


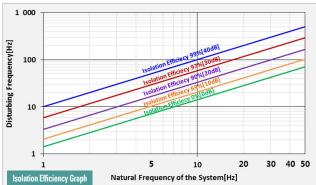


## ■ SMB Test Data









## ■ Explanation(Commonness)

1. Vibration Transmissibility(T<sub>r</sub>)

Vibration Transmissibility is the amplitude ratio of Output to Input.

$$T_r = \frac{\textit{Output Amplitude}}{\textit{Input Amplitude}} = \sqrt{\left(\frac{1}{1-\eta^2}\right)^2} \;, \\ \eta = \frac{\textit{Disturbing Frequency of the equipment}}{\textit{Natural Frequency of the Isolator(Damping(c) = 0)}}$$

2. Natural Frequency(Fn) of Vibration Isolation System

The mass and spring stiffness dictate a natural frequency of the system.

$$F_n = \frac{1}{2\pi} \sqrt{\frac{k}{m}}$$

3. Isolation Efficency(E)

Isolation Efficiency in percent transmission is related to Vibration Transmissibility  $E = 100(1 - T_r)$ 

ex) Disturbing Frequency of the equipment=100 Hz, Natural Frequency of the isolator=10Hz

$$T_r = \sqrt{\left(\frac{1}{1-\eta^2}\right)^2} = \sqrt{\left(\frac{1}{1-\left(\frac{100}{10}\right)^2}\right)^2} = 0.101$$
  $E = 100(1-T_r) = 100(1-0.101) = 99(\%)$ 

## Installation Features





