

High Speed & High Resolution Ultrasonic Motor “VSM system”

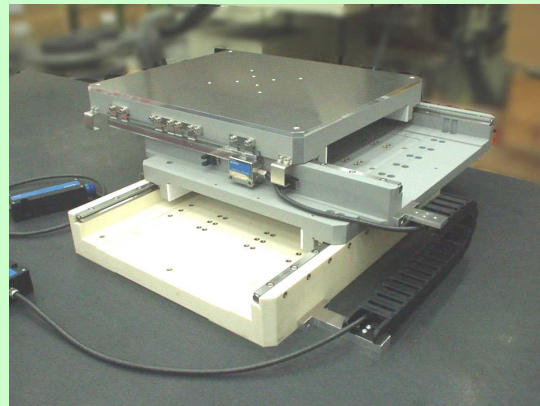
VSM has achieved to control 1 nm resolution at 500 mm/sec. And it is able to automatically switch high speed and low speed with using our own control system.

VSM is available for high vacuum use without generating large magnetic field. The magnetic field level from VSM is less than 10nT.

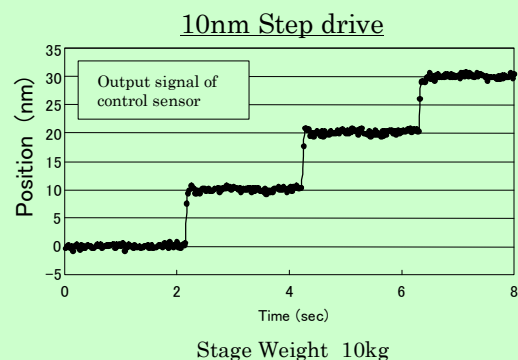
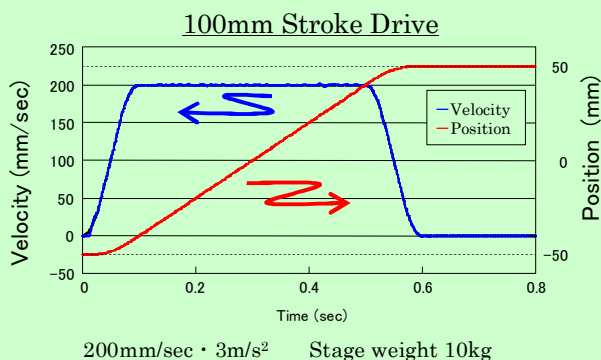
VSM adopts a hard type piezoelectric material which generates less heat so that a continuous drive becomes possible. In addition, VSM is very stable to keep a position. Therefore any brake systems are not required.

- ☆ Velocity : 500mm/sec
- ☆ Resolution : 1nm
- ☆ Force : 30N
- ☆ Magnetic noise : < 10nT
- ☆ Position Control

Optimized feed forward & feed back
High speed mode in resonant mode
Low speed mode with non resonant



【Examples of Stage Drive】



【Applications】

Electron Beam Exposure / Semiconductor Inspection Equipment