

Stepping Systems Success Story

Industry	: Industrial machine
Application	: Bus fare box
Product	: SANMOTION F2 35 & 42 mm stepping motor 1 pcs each with customized windings (Rated current: 35 mm: 1A / phase, 42 mm: 1.5A / phase) (switched from company O & N)
Quantity	: 1400 pcs / year (2 pcs / machine)
Use	: Motors are used in the coin sorter
Request	: 1. Remove rubber shock damper attached to the motor → to reduce number of components used and total costs 2. Improve torque margin → to avoid operation problems caused by motor step-out
Solution	: 1. Natural vibration is reduced by adjusting wavelengths of drive frequency. Rubber shock damp is not needed anymore. 2. Change motor windings to maintain high motor torque from low to high speed.
Merit	: 1. Natural vibration and number of components used are reduced. 2. Step-out problem is solved by customizations of motor windings.

