

Vibration suppression

New technology for production process optimization



0.05 seconds

Every motion stops in 0.05 seconds

The vibration control technology can prevent items from shaking, fluid from sloshing or spilling, cargos from being fetched away or collapsing, fragile materials from falling over and breaking, etc. It can even handle various combinations of these applications, which means that higher-precision process control is possible without costly investments in equipment.



20%

Enhance the liquid transfer speed by 20%

The vibration control technology prevents liquid surfaces from sloshing through the use of sloshing suppression control, and transfers the liquid speedily. Because the liquid surface during transportation becomes stable, the speed is enhanced by 20%.

Production process optimization

Omron's vibration suppression to reduce waiting times and product damage

Production process improvements can be realized by intelligently evaluating mass production process data. For identified improvement areas new technology can be applied to optimize the flow of products or reduce waste. Omron's vibration suppression technology can realize improved movement control to optimize transportation speed.

Anti-sloshing movement control

When transporting liquids unwanted sloshing may influence the accuracy of a weighing process e.g. for determining the correct content of pharmaceutical products. The resulting waiting time until the liquid sloshing has stopped can be reduced using Omron's vibration suppression technology.

Vibration suppression (VS) for different objects

	Without VS	With servo driver	With VS in Sysmac Machine Automation Controller
Vibration suppression for objects with unfavourable geometry			
Vibration suppression for hanging material			
Vibration suppression for horizontal handling			
Sloshing suppression			
Spilling suppression			

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