

# DUAL MOTION PARTS FEEDERS

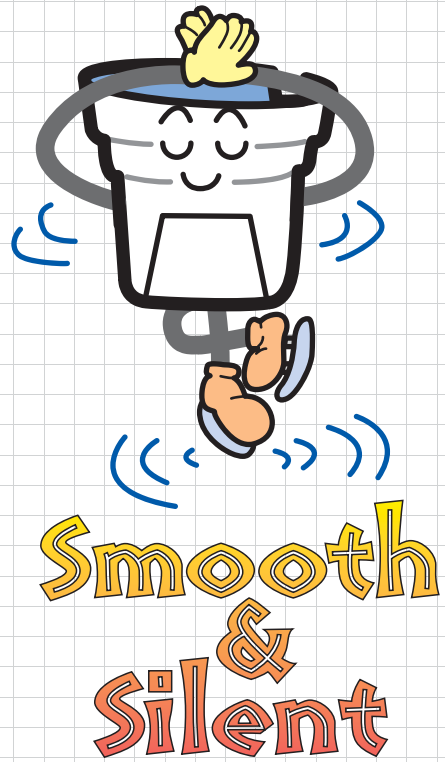
## Smooth, low-noise conveyance

### Features

- Setting vertical amplitude at the lowest possible setting greatly reduces bouncing of workpieces. Thin, flat workpieces remain separate and are conveyed smoothly.
- Work is conveyed as though gliding, with minimal impact between workpieces and track, resulting in minimal noise.
- Compact size makes it possible to interchange them with EA/ER Series parts feeders or those of other manufacturers. (DMS Series)
- A single drive unit can be used for right or left bowl orientation.

### Applications

- Plastic, easily damaged workpieces for medical and electronic equipment
- Low-noise conveyance of auto and other metal parts
- Precision equipment and other electronic parts that require highly accurate sorting



### DMS Series

interchangeable with EA/ER Series parts feeders or those of other manufacturers.

### DM Series

Accommodates high-speed delivery requirements.



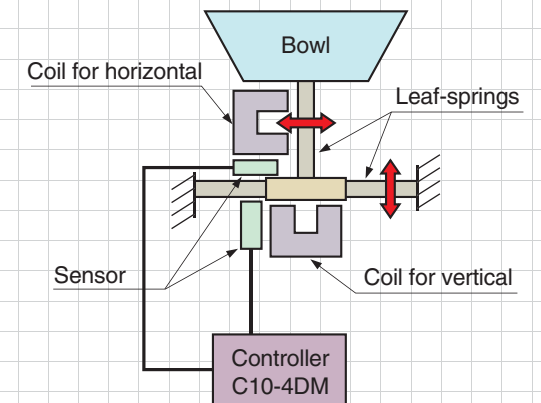
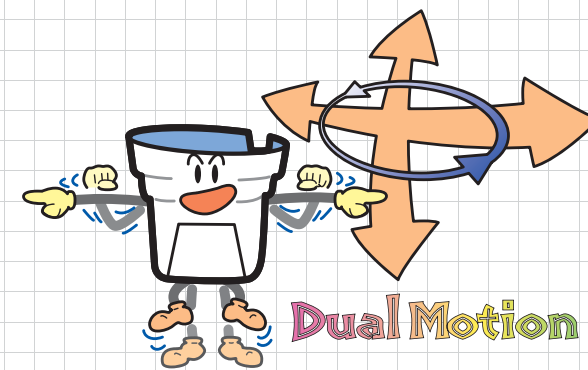
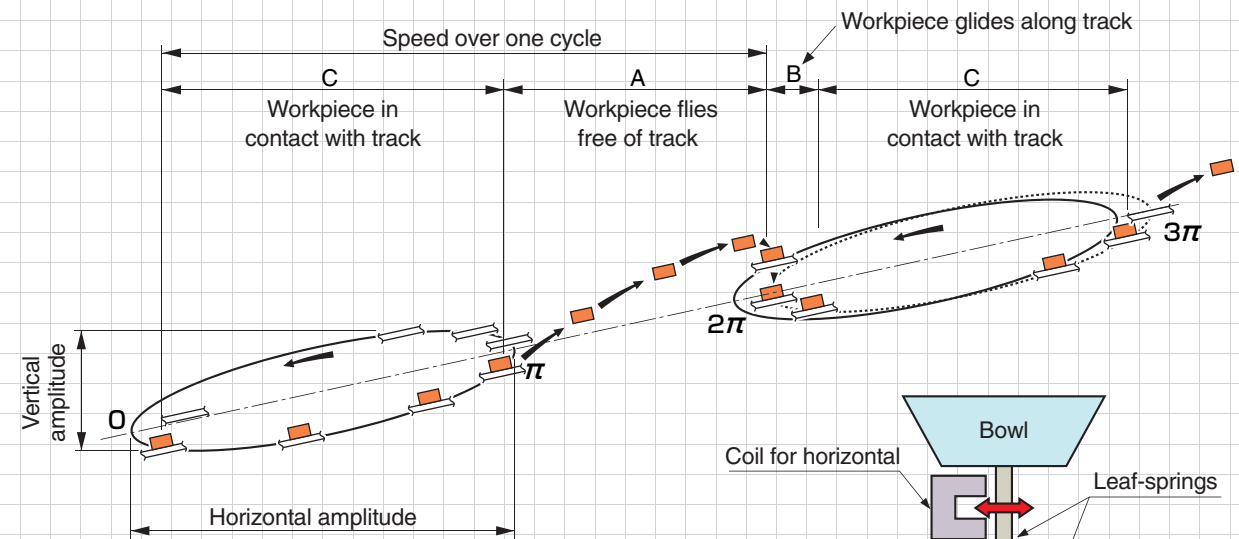
### Dual Motion Principle

#### Friction (conveyance) controlled through elliptical vibration

Elliptical vibration is achieved by controlling optimal phase difference to the horizontal and vertical amplitudes of bowl vibration. Conveyance using elliptical vibration results from controlling friction, and workpieces thus travel as though gliding along the track.

#### Dual Motion in action

Dual motion is generated in these parts feeders through feedback of vibration in the horizontal and vertical directions, as shown in the diagram. Sensors detect horizontal and vertical amplitude, thereby allowing separate control.



DM-65C