

## Liquid Filling

### Application Overview

Traditionally fill and displacement rates were accomplished using mechanical cams.

Our Control Techniques' servo solution makes synchronizing multiple axes easier and cost effective. These electronically programmable servo systems can be reconfigured on-the-fly for rapid product change overs. And requires little or no operator involvement.

### Application Requirements

#### Control

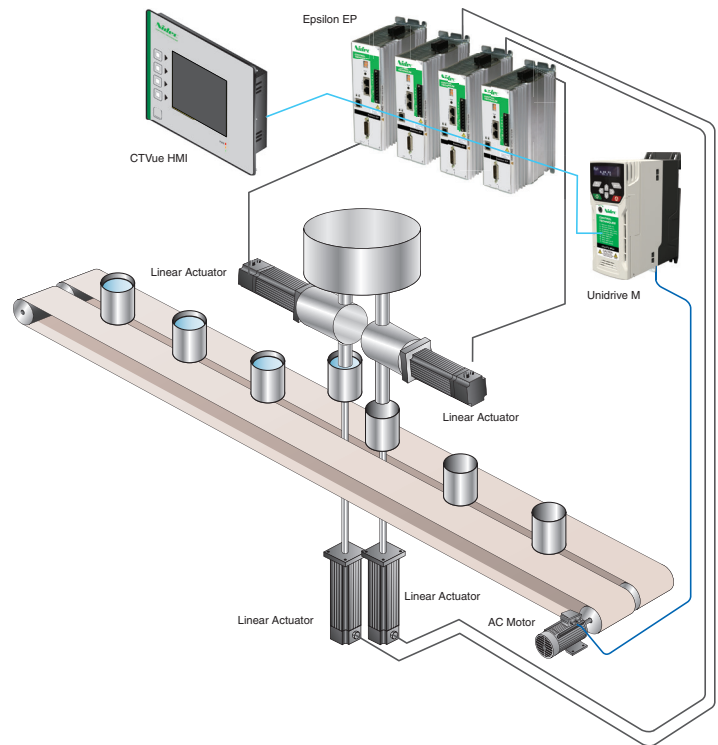
- Reduced development time
- Synchronize axes
- Minimize mechanical adjustments

#### Connectivity

- Communications to SCADA systems
- Enhanced product diagnostics

#### System Costs

- Adjustable cams
- Quick product change over
- Change cams on the fly



### Control Techniques' Solutions

#### Servo Drives and Motors, VFDs, and HMIs

- Electronic Cams can be modified during production
- Virtual Master improves synchronization
- Intuitive programming with PowerTools Pro
- Drive to Drive networking
- Distributed control - no PLC required
- Open architecture

# Liquid Filling Solutions

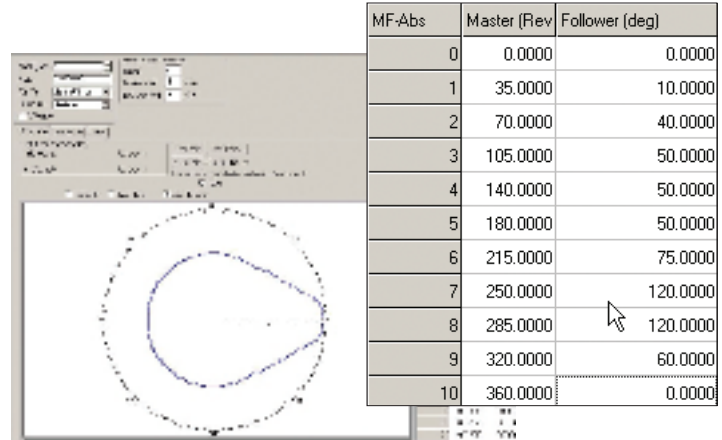
## Control Techniques' Performance Advantages

### Built-in Functions

- Cubic spline cams make setup and programming of complex motion profiles easy.
- Real-time programs allow the user the ability to switch between cam profiles on the fly, with smooth transitions.
- Cam import function allow you to import cvs files to populate the Cam tables.

### Advanced Control and Tuning

- The advanced networking capabilities of our systems allow connectivity to virtually any manufacturer's equipment.
- Dynamic table data can be exported from the drive for data logging and diagnostics.

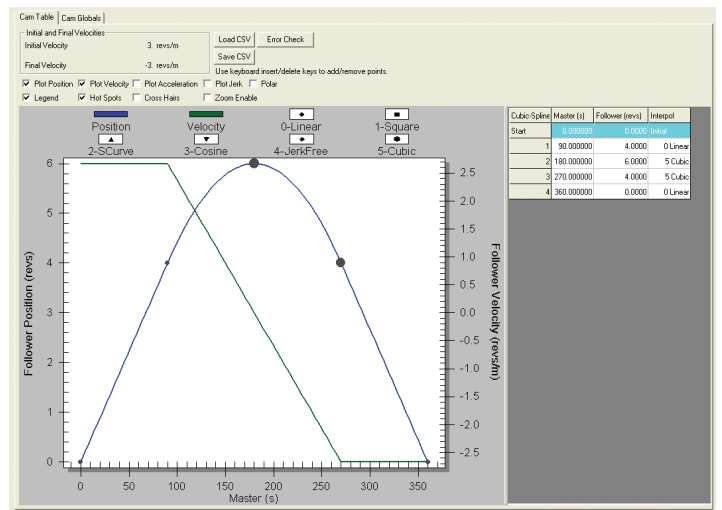


### PowerTools Pro Software

- Our drag and drop, fill in the blank commissioning tool is intuitive and easy to use. Allowing drive configuration and programming to happen quickly.

### Distributed Control

- Modbus Master allows for Drive to Drive networking for simple coordination, eliminating the need for complex PLC's or motion controllers.
- Eliminate the need for costly PLCs
- Easily add networked I/O



## World Class Products & Support

- Worldwide Application & Field Service Network
- 24/7 support line +1 800 893-2321

