

Advanced Controller-Level Algorithms **Dynamic Controls Toolbox**

A Collection of Tools

The Dynamic Controls Toolbox (DCT) contains a collection of controller-level algorithms that are designed to improve machine positioning, increase throughput and reduce cycle times. Parameters supplied in the toolbox are used to configure these algorithms.

The DCT algorithm was developed based on years of experience in optimizing motion control systems. Apply DCT tools to your system today in order to achieve optimal performance.

Automation1

Automation1 Dynamic Controls Toolbox is part of the user-friendly Automation1 motion control platform, which includes the following:

- Development Software
- Controls
- Motor Drives
- Fiber-Optic HyperWire[®] Communication Bus



KEY FEATURES:

- Improves performance
- Reduces tracking error
- Rejects sinusoidal disturbances
- Filters undesired frequencies
- Minimizes off-axis position errors

AUTOMATION1 DYNAMIC CONTROLS TOOLBOX

HARMONIC CANCELLATION

Improves performance by reducing the tracking error to sinusoidal reference commands, motor force ripple or other position-dependent disturbances and to cross-axis disturbances such as those created in a linear axis by an unbalanced rotational axis.







AUTOMATION1 DYNAMIC CONTROLS TOOLBOX



ORDERING THE AUTOMATION1 DYNAMIC CONTROLS TOOLBOX

Summary	Description
How to Order	Order the Dynamic Controls Toolbox as part of your <u>Automation1-iSMC</u> configuration.

