

Software Options Overview

Firmware Options for the TSD and TSP drive series

Enhance the standard firmware of the TSD and TSP drives with software options.

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1 GY – MIMO Gantry Control

Enables 100kHz MIMO gantry control with decoupled linear position and yaw displacement loops. Stiff and soft gantry setups are supported. More information is available in the Application Note AN139. This option is exclusively available for the TSD series.

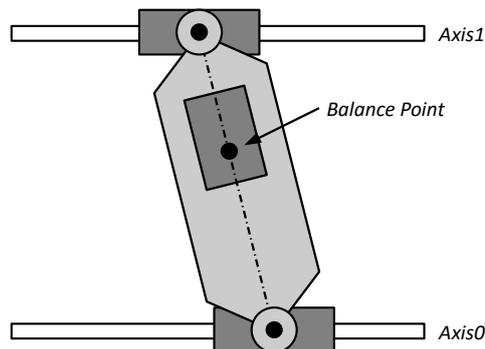


Figure 1: MIMO Gantry

2 PU – Pulsing Unit

Enables high frequency, position based, pulse generation functionality for Option Module Encoders EN and EH. More information is available in the Application Note AN152.

This option is available for the TSP and the TSD series.

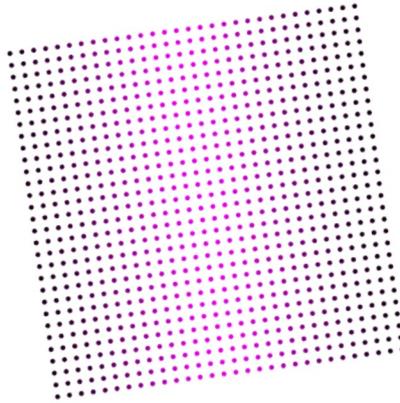


Figure 2: Pulsing Unit: pulsing pattern

3 XC – Eccentricity Compensation

Enables eccentricity compensation for rotational axes with 2 sensors on opposite sides of an encoder disc. The activated option discloses the following Register to activate the compensation independently on *Axis0* and/or *Axis1*.

`Axes[].Parameters.PositionController.EccentricityCompensation`

This option is available for the TSP and the TSD series.

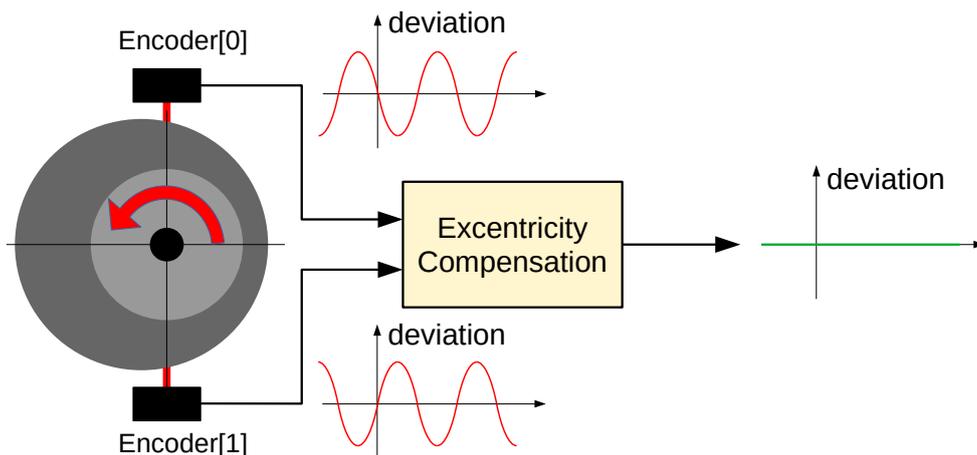


Figure 3: Eccentricity Compensation



Revision History

Version	Date	Editor	Comment
001	2022-03-25	sm	First release
002	2023-04-27	sm	Add Pulsing Unit

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