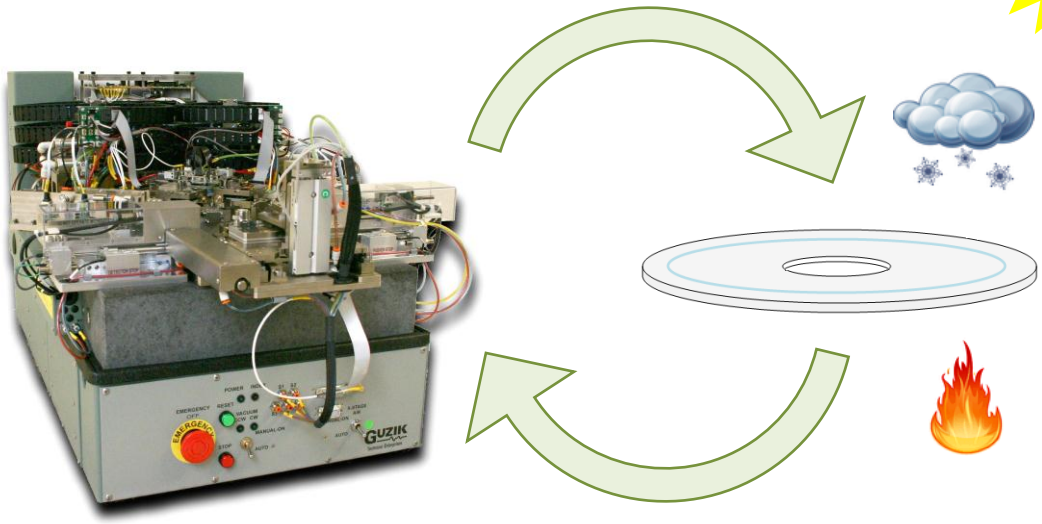
GUZIK PRODUCT BULLETIN

Media Centering with Guzik Servo



- Media can be removed from the spinstand and placed back to read previously recorded information
- Allows for writing Guzik servo and data tracks on a blank disk, removing the disk, exposing it to extreme conditions, placing it back on the spinstand, and performing tests on the data tracks
- Can be used for media decay, heat, humidity, and other environmental studies
- Automatic Media Centering Mechanism* mechanically aligns the media to reduce track eccentricity below 800 nm
- Servo Closed Loop to follow the original tracks with residual RRO less than 1-2 nm

* US Patent Pending

Media Centering with Guzik Servo is an additional option for the Servo Improvement Package. This option allows for writing Guzik Servo on a blank media, writing one or more data tracks, taking the media off the spinstand, then placing it back on the same or a different spinstand, and reading the servo and data tracks back.

This option can be useful for environmental studies. Instead of placing the spinstand into an environmental chamber, you can take the media off the spinstand and expose only the media itself to extreme temperatures, humidity, etc.

Once you place the media back on the spinstand, you engage the DTR Media Centering Mechanism* to mechanically align the media in order to reduce track eccentricity below 800 nm. This process is done without operator involvement and typically takes 3-5 minutes. After the media is centered, you engage the Piezo Actuator Cartridge* servo loop with 2-3 kHz bandwidth to further reduce run-out due to eccentricity below 1-2 nm and follow the pre-written tracks.

This process is similar to centering the DTR media with pre-printed tracks, except the Media Centering with Guzik Servo allows for using any blank disk. Proprietary Guzik Servo pattern is recorded and used for alignment. Unlike drive servo or DTR servo, which typically has 5-7 nm RRO, residual repeatable run-out for Guzik Servo is less than 1-2 nm.

Hardware and Software Requirements

1. WITE32 software revision 4.40 or later[i]
2. RWA DTR 3000 Series
3. Guzik DTR 3000 Spinstand
4. Servo Improvement Package license.
5. Guzik Servo Media Alignment license.

Please contact sales@guzik.com to obtain a quotation for the license. Please provide the RWA and Spinstand EEPROM Dump with your request.

[i] An active software maintenance and support contract is required to upgrade to WITE32 Revision 4.40.

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