

Technical Advisory Bulletin (TAB)

Bulletin #: TBMELCO27A

May 7, 2019

Product: EMT16, EMT16 PLUS, BRAVO II

Implementation: ☐ Urgent ☐ Mandatory ☐ As Required ☒ Info Only

Reference: N/A

Subject: Tracking, Over Current, and Time Out Messages in Machine OS

SITUATION:

Starting with Melco OS v11.09.096 and corresponding BRAVO OS versions, the motor errors that can be displayed now include a "(X/Y/Z) motor over current error" message.

This TAB is to clarify the differences between the different possible motor error messages in Melco OS and BRAVO OS.

SOLUTION:

Motor error messages that possibly can be displayed in Melco and BRAVO OS can include:

- **"Axis home timeout"**: This will occur when either of the x, y, or z servo motors move and the encoder counts change, but the respective home sensor never gets triggered.
- **"(X/Y/Z) motor over current error"**: In this case the machine either entered the safety shutoff mode or the current going to the motor is too high.
- **"(X/Y/Z) tracking error"**: Standard tracking issues, e.g. motor encoder and commanded position do not match after a certain time period.
- Other servo motor errors may be reported as **Z tracking errors**. Typically, this happens when the Z index flag is not found during a maintenance Z rehome step (e.g. if index plate is disconnected from the actuator).

RECOMMENDED ACTION:

If the "(X/Y/Z) motor Over Current error" is displayed specifically with Melco OS v11.09.096, the machine and/or software may need to be shut down to clear the error. Versions of Melco OS and BRAVO OS released after 11.09.096 will allow the user to click the "Cancel" button to clear the error.