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Short Stroke Actuators

ETEL

Version 1.0 - 11/21 - subject to modifications without previous notice

ETEL

TUCANA ST & AQUARIUS ST ACTUATORS

TUCANA ST and AQUARIUS ST short stroke actuators feature:

- ETEL high efficiency single phase motor
- Very short move & settle time
- Excellent position repeatability
- 1 Vpp encoder
- ETEL high efficiency single phase motor
- Optimized form factor
- Built-in gravity compensator for move-up in case of power failure
- Highly accurate force limitation capabilities
- High dynamics
- Long lifetime
- Good thermal behavior thanks to built-in heatsink on the external housing

MAIN FEATURES

AQUARIUS ST

- Total stroke: 10 mm
- Peak force: 214 N
- Continuous force: 31.4 N
- Speed up to 1 m/s
- Acceleration up to 40 g

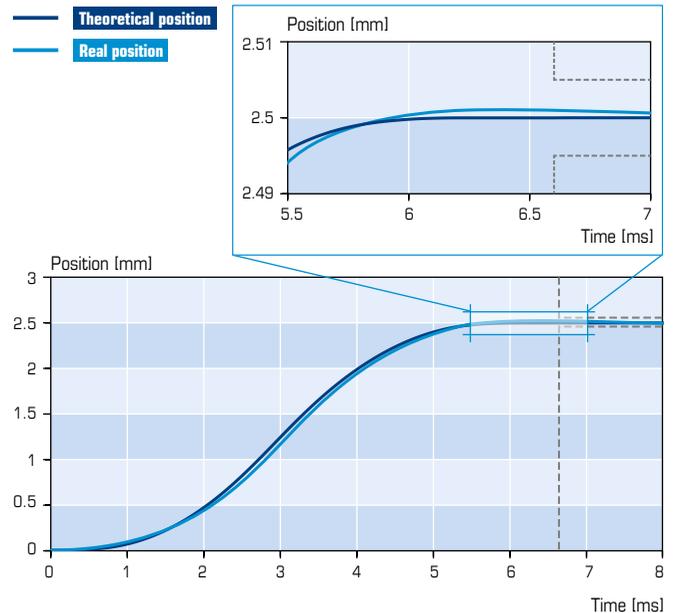


TUCANA ST

- Total stroke: 10 mm
- Peak force: 68.4 N
- Continuous force: 12.1 N
- Speed up to 1 m/s
- Acceleration up to 40 g



Here is a typical 2.5 mm stroke in 6.6 ms with an acceleration of 30 g and a tracking error of $\pm 5 \mu\text{m}$ at the end of the movement.



ETEL's short stroke actuators are suitable for all applications requiring pure axial movement over a short stroke, especially when high dynamics and a small footprint are key requirements. Such applications include touch pad calibration, chip shooters, die ejectors, and many more.

Coupled to ETEL's RTMB+ indexing tables and ACCURET controllers, the TUCANA ST and AQUARIUS ST are a perfect solution for the stringent requirement of Turret testing handlers.



RTMB+

Short stroke actuators

ACCURET