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Short Stroke Actuators

ETEL

version 1.4 - 02/20 - subject to modifications without previous notice

ETEL

TUCANA & AQUARIUS ACTUATORS

TUCANA and **AQUARIUS** short stroke actuators feature:

- ETEL high efficiency single phase motor
- Optimized form factor
- Built-in gravity compensator for move-up in case of power failure
- Highly accurate force control capabilities
- High dynamics
- Long lifetime
- Good thermal behavior thanks to built-in heatsink on the external housing
- Multi-point interface possibilities (front, back, bottom)
- ETEL mechanical fuse as an accessory

MAIN FEATURES

AQUARIUS

- Nominal stroke: 10 mm
- Peak force: 120 N
- Continuous force: 29.5 N
- Speed up to 1 m/s
- Acceleration up to 30 g

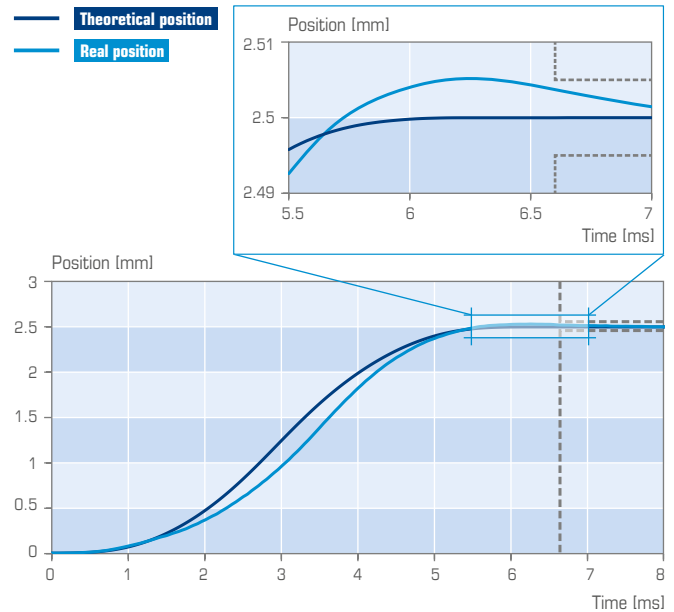


TUCANA

- Nominal stroke: 10 mm
- Peak force: 29 N
- Continuous force: 11.5 N
- Speed up to 1 m/s
- Acceleration up to 30 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 and AQUARIUS are a perfect solution for the stringent requirement of Turret Testing handlers.



RTMB[®]

Short stroke actuators

AccurET