



**Lifetime**  
> 1 billion cycle



**Peak force**  
29 N



**Dynamics**  
Acceleration 30 g

# TUCANA

## Short Stroke Actuators

 For semiconductor applications

**Introducing TUCANA, an actuator that fulfils the requirements of applications that demand force, throughput, durability and reliability, all in a compact form factor. It is particularly suitable for independent Z-axes for testing handlers with high performances.**

This is a versatile solution that can be used in various scenarios where precision and high dynamic are paramount. With a total stroke of 10 mm, it delivers a peak force of 29 N and a continuous force of 11.5 N, ensuring robust performance in various tasks.

Its impressive acceleration capability of up to 30 g reaching a speed of up to 1 m/s further enhance its usefulness in dynamic applications. When paired with the Accuret+ control unit, Tucana delivers best-in-class force control at the touch point, as well as precise position control without overshoot.

### LONG LIFETIME

A mechanically design guarantees long-term friction behaviour, and minimises undesirable fluctuations in movement and settlement.

### COMPACT DESIGN

The small form factor offers space-saving benefits without compromising on performance, making it suitable for installations where space is limited.

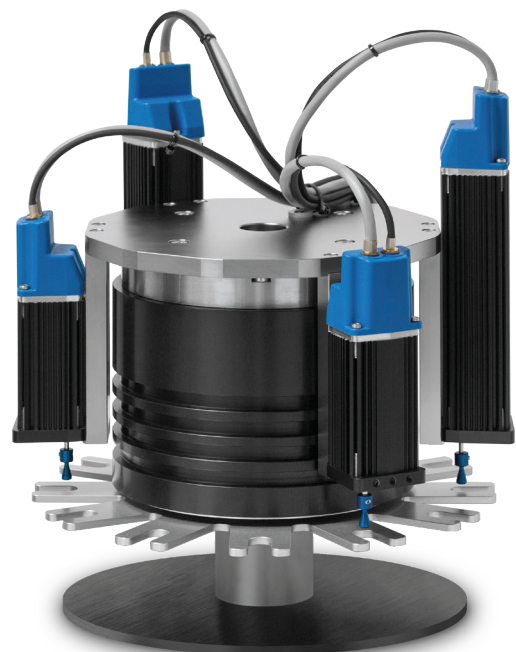
### ENHANCED FORCE CONTROL PERFORMANCES

With capabilities to handle smaller nominal forces down to 0.5 N, improve force accuracy, reduce force overshoot, and increase acceleration, it delivers superior force control.

### VERSATILE APPLICATION

Designed specifically for back-end semiconductor final inspection applications, it improves the handling of the tested component in various processes such as tray/tube/tray removal and deposition, transfer to/from the table, test bonding, visual inspection, and laser marking.

## Integration example



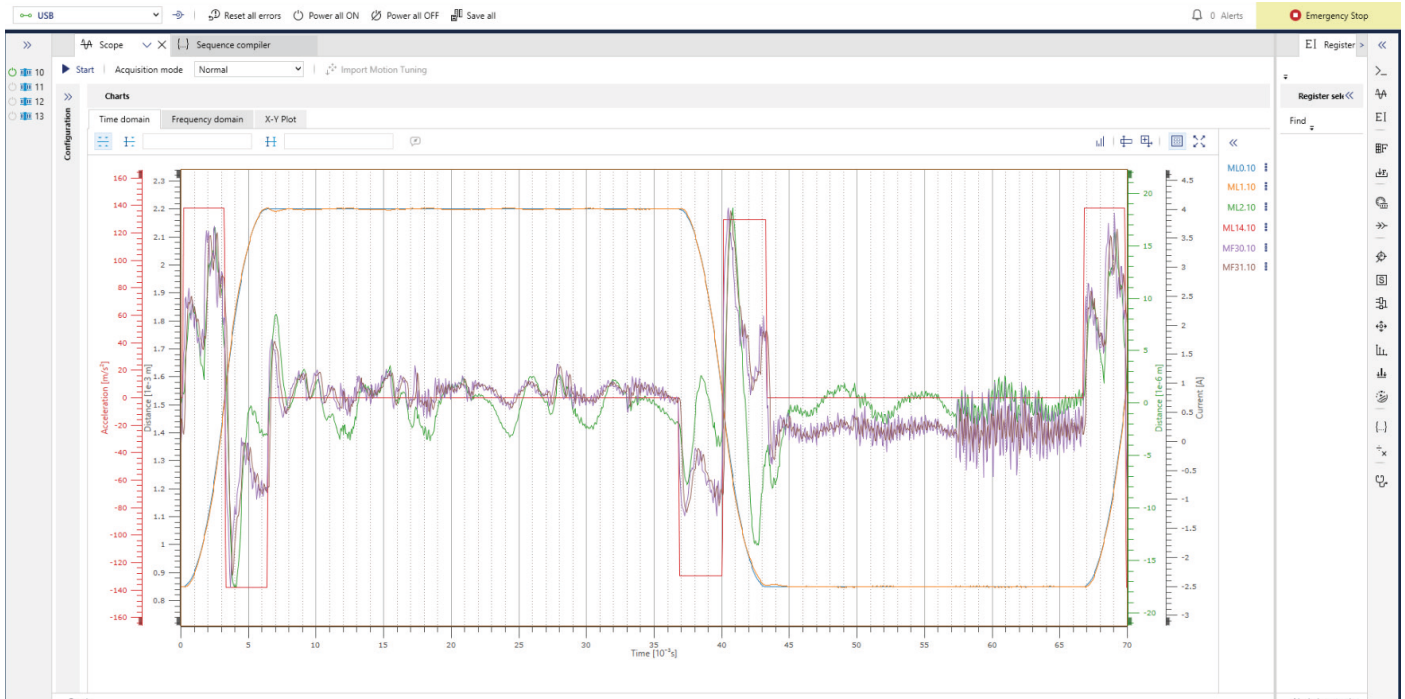
> Total stroke: 10 mm

> Speed: Up to 1 m/s

> Continuous force: 11.5 N

> Move and settle time: 2.8 mm within  $\pm 10 \mu\text{m}$  in 7 ms

## Move and settle course



More info

