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esmo Raises the Bar for Automated Microchip Testing with talos Handler 2021



Rosenheim, Germany, 14 Apr 2021 — [esmo group \(esmo\)](#) — a full-service systems integrator that provides innovative and advanced engineering services — has rolled out [upgrades and additional features](#) for the [talos 2021 system](#). First launched in 2019, the talos engineering handler is a reliable and easy-to-use handling system for semiconductor test applications, and is esmo’s solution to the industry’s need to cost-effectively test increasingly compact and complex devices within a shorter period of time.

At the core of the talos engineer handler is its state-of-the-art active thermal control system (ATC), which allows manufacturers to carry out multiple test temperature cycles and achieve the highest temperature accuracy.

“Our talos engineering handler provides semiconductor companies with the most stringent quality control and assurance, ensuring products are tested to specification,” shared Joseph Weinberger, Business Unit Manager (Semicon). “A highly flexible and cost-effective test system, the talos platform helps manufacturers achieve faster time-to-yield with higher overall equipment efficiency. Furthermore, its remote control and monitoring feature also allows customers to remotely manage and conduct device handling.”

The talos system supports the testing of devices with any site pitch dimension, which allows semiconductor companies to use already existing production load boards and sockets seamlessly. Its tray or tube loading and unloading feature also makes it possible for manufacturers to run the talos system in a mixed media operation. As such, loading trays, tubes, and tapes can be combined with their unloading counterparts, and devices can even be sorted from one media to another, such as from tube to tray.

Designed to meet both test and production floor requirements, the talos handling system features a highly accurate pick-and-place robot system and a standard docking interface that is compatible

with all testers. The talos can also be employed as a basic, kit-less test handler, or as an advanced test handling system with its expansive selection of [optional modules](#).

Key features of the talos:

- -60°C to +175°C (-76°F to +347°F) device testing temperature with ATC — Temperature is measured and controlled at the contact plunger to ensure highest accuracy levels
- Junction regulation option available — Users can control the device's core temperature, compensating power dissipation for highest temperature accuracy
- Low test time — Minimal adjustment and conversion efforts required
- High contact force of 450 N and above
- Multiple automated test cycles at different temperatures within a short timeframe
- High system uptimes and power-on times achievable at lower maintenance costs
- Compact test cell footprint (in combination with esmo's [phoenix cart](#))
- Moveable and modular system
- Remote control available via Ethernet

The talos handling system is available globally.

For more information, please visit: www.esmo-group.com/semicon/handling-systems

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Notes to the Editor

About esmo group

Established in 2001, the esmo group is an international enterprise that provides innovative and advanced engineering services to different sectors across a variety of industries:

- esmo automation is a full-service provider that offers a comprehensive range of product and service offerings for the plant engineering and automation technology industries.
- esmo semicon is one of the leading suppliers of manipulators, docking and interfacing components, and handling systems for the global semiconductor industry.
- flextos, a subsidiary of the esmo group, specializes in customized solutions for the drywall and interior construction industry.

We develop customized solutions at an excellent price-performance ratio for our customers globally. Our strong portfolio of leading-edge technology, state-of-the-art machinery, innovative production engineering and efficient processes allows us to meet even the most challenging requirements within short timeframes. Our extensive experience, competence, and colleagues' motivation and commitment make up the strong and reliable framework behind our customers' success.

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