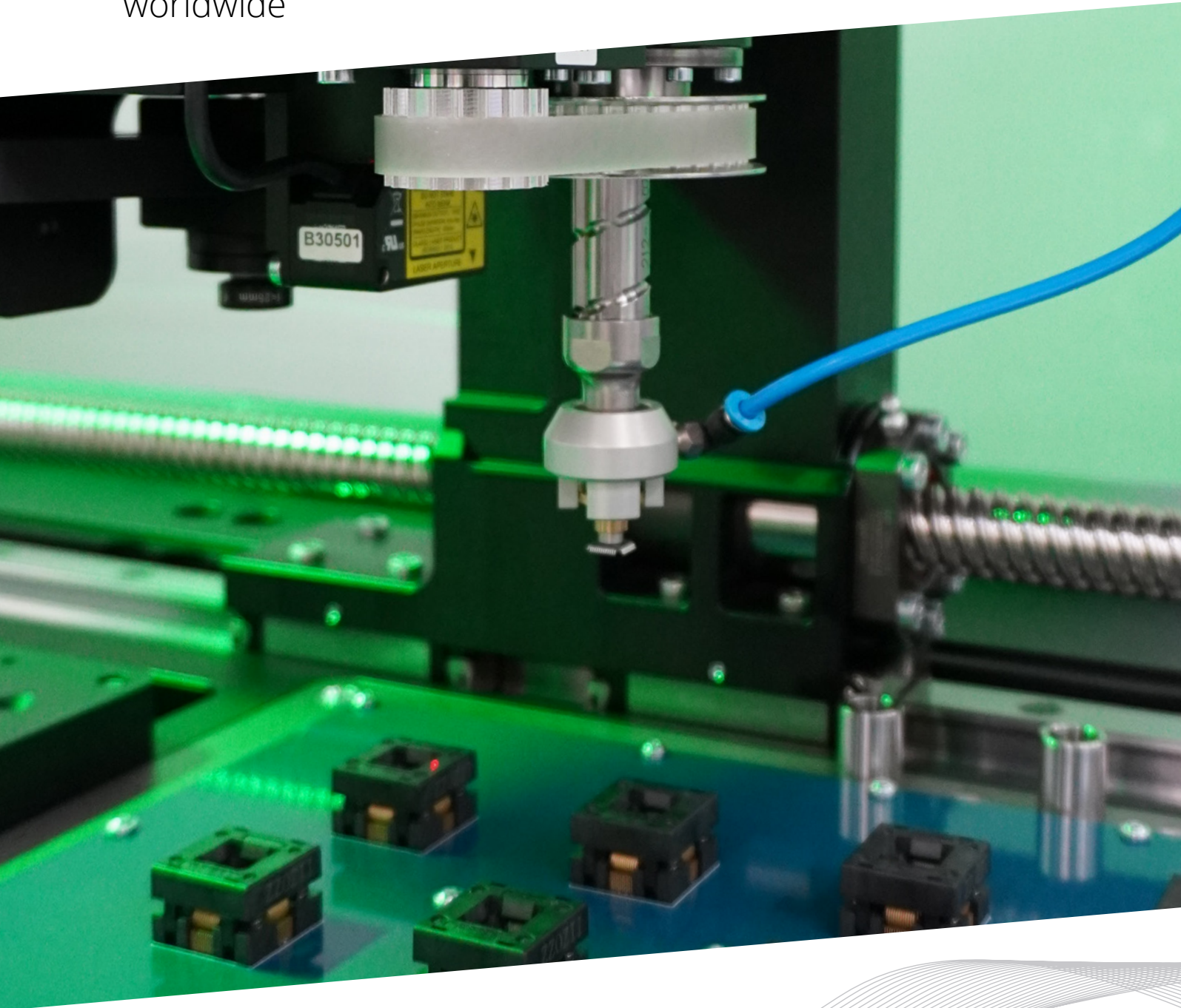


**engineering** innovations  
worldwide



**lykos**  
universal device loading |  
unloading system



**esmo**  
semicon



lykos universal loading | unloading  
device handling system



· for reliable device loading | unloading  
to avoid manual placement or orientation errors ( $\pm 0.05$  mm accuracy)

· device range from 1.0 x 1.0 x 0.4 mm (0.04" x 0.04" x 0.02")  
to 70.0 x 70.0 x 10.0 mm (2.76" x 2.76" x 0.4")

· modular pick & place device handling,  
easily convertible to your specific applications



small footprint, easily movable:  
1,115 x 1,749 mm (43.9" x 68.9")

- |   |  |   |  |
|---|--|---|--|
| 1 | 17.3" vertical HMI<br>with multi-touch capability  | 4 | integrated camera system<br>for pick & place position teaching |
| 2 | 4-axis portal robot<br>(x   y   z1   theta)  | 5 | transparent<br>front hatch cover                               |
| 3 | precentering (free Pin1<br>orientation device + socket) +<br>optional vision alignment<br>system | 6 | BIB with sockets<br>or other customized units                  |



# top priority: highest quality of device handling processes

In the semiconductor industry, the device handling plays a vital role in subjecting semiconductor components to rigorous temperature stress testing. To facilitate this procedure effectively, a burn-in-board (BIB) loading system becomes essential.

When it comes to ensuring top-quality performance, esmo's lykos universal loading/unloading device handling system offers a range of benefits:

## 1. Elimination of Human Error:

- + exclusion of human error in device placement
- + accurate orientation of Device PIN 1
- + prevention of device damage during device insertion
- + optional opportunity to test contact sites for continuity

## 2. Handling of Devices Down to 1 x 1 mm:

- + efficient handling of devices as small as 1 x 1 mm

## 3. Resource Optimization:

- + avoidance of wasted resources caused by incorrect device insertion

## 4. Fully Automated Loading of Open Top Sockets (OTS):

- + streamlined and automated loading process for open top sockets

## 5. Automated Loading of Clamp Shell Sockets:

- + possibility of automated loading for clamp shell sockets

We prioritize quality in every aspect of our operations, and the lykos BIB loader/unloader is designed to deliver exceptional performance. Experience the convenience and reliability it offers today.

For more information or to discuss your specific requirements, please don't hesitate to contact us.

||| z1 picker with laser distance sensor plus optional available camera





## handling key features

highly accurate and reliable 4-axis portal  
pick-and-place robot system ( $\pm 0.05$  mm accuracy)

high MTBF values, low maintenance efforts

free PIN1 orientation

17.3" vertical HMI with multi-touch capability

integrated camera system for pick-and-place position teaching

customized tester communication, interfaces and functionalities possible

remote control via Ethernet

modular machine configurations and options  
as per specific/individual customer requirements

flexible device clamping for different sizes

easily moveable, even by one person

cost-efficient and easy-to-use conversion kits for different devices

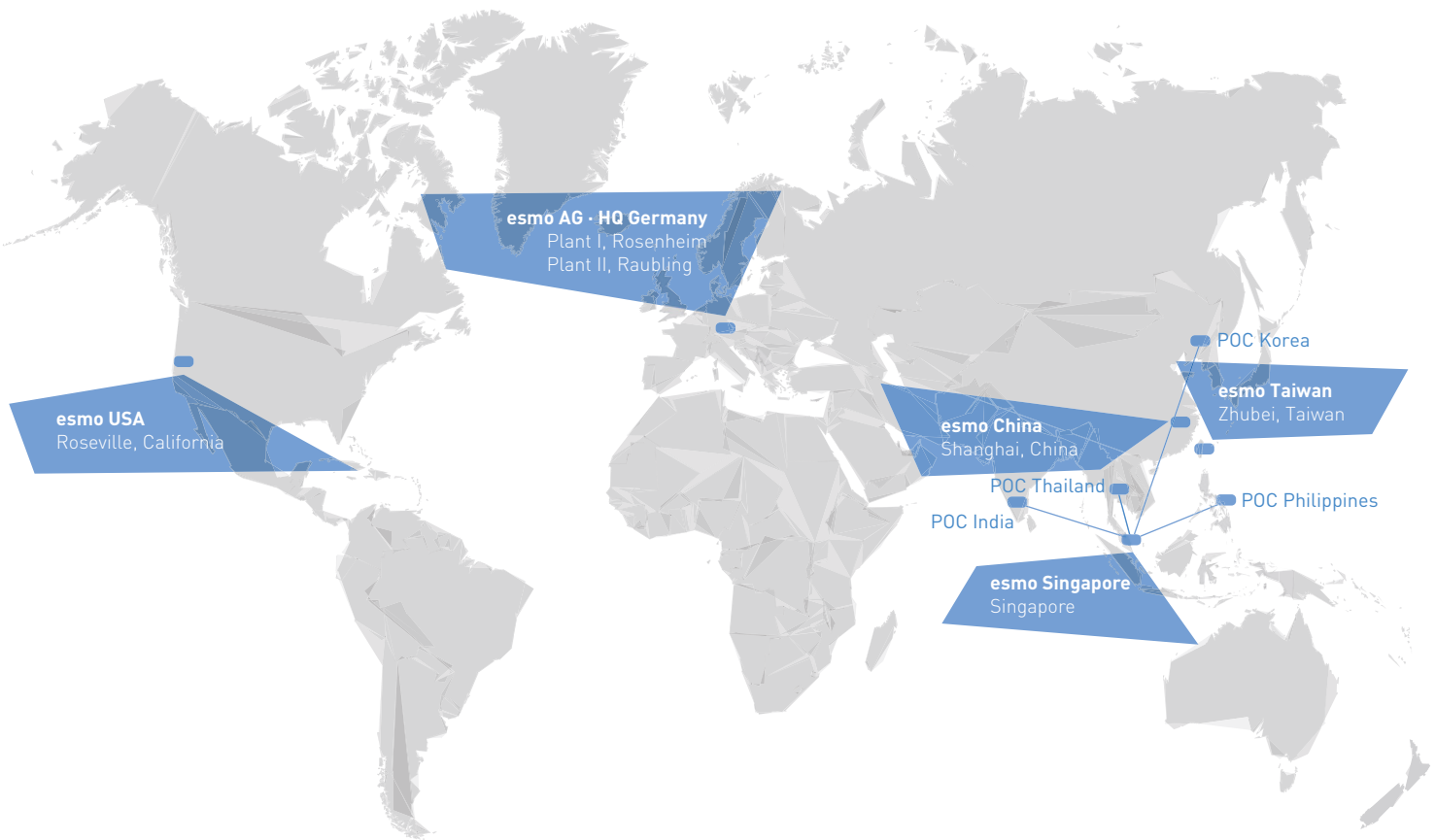
conversion time (incl. BIB change) less than 3 minutes

## easy to control – via touch screen (17.3") or mouse



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