

# AIOLOS

Wafer level test handler  
for environment sensors



**Pressure** >



**Humidity** >



**Temperature** >



**Combo** >

## AIOLOS - an automatic precision prober inside chamber

- > a combination of environment stimulus chamber, integrated tester electronics, temperature chuck, automatic material handling and Sequencer program for handler & tester control
- > structure provides stable and lightless testing environment
- > versions with high precision pressure controller available

## AIOLOS - for WL-CSP environment applications

- > for WL-CSP pressure sensors, humidity and gas sensors - testing on dicing tape
- > also for bare die and traditional packages (LGA, QFN, LCC, etc.)
- > up to 8" film frames
- > high flexibility - no need for product specific tooling

## AIOLOS for very high UPH and lowest Cost of Test

- > very high units per hour rate (120 000 UPH without test time)
- > std up to 64 DUTs parallel other TBN
- > short and smooth handling process - zero jam rate - high yield
- > cameras & active alignment for compensation of dicing process inaccuracy
- > short process - no pick & place process before final packaging
- > very low maintenance need
- > high uptime
- > low capex - COT below 1 cent

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## MAIN FEATURES

### PROBER PROPERTIES

- > X, Y- mechanics range 6" or 8" wafer
- > Theta correction range  $\pm 5^\circ$

### VERSIONS

- > 6" and 8" versions available
- > Barometric chamber 50..150 kPa abs
- > Mid-pressure chamber 50..1500 kPa abs
- > Other pressure ranges on request

### OPTIONS

- > Pressure fine controller
- > Humidity stimulus unit
  - > 20 ...80 % RH
- > Temperature Chuck
  - > ambient ... + 85 deg C
- > Other stimulus on request
- > Automatic wafer loading
- > Wafer ID-reader
- > Wafer magazine ID-reader

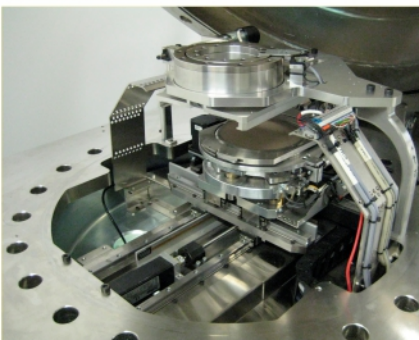
### TESTER AND USER INTERFACES

- > 19" 6U slot for ATE (others on request)
- > TCP/IP remote control interface
- > 17" color touchscreens (2), keyboard, mouse and joystick for prober manual control

### INFRASTRUCTURE

- > Dimensions WxDxH 2,5 x 1,1 x 2,1 m
- > Weight (fully equipped) 1200 kg
- > Pressurized air >6 bar
- > Vacuum <500 mBar abs
- > Power (Europa, China) 400 V / 16 A / 50 Hz
- > Option for power (US) 480 V / 16 A / 60 Hz

AIOLOS automatic  
prober mechanics



AIOLOS humidity  
stimulus unit



AIOLOS dimensions

