



# Battery Test Solutions

Lithium-ion Battery Testing Systems of Yamaha



# Yamaha Quality

## New reliability in new age Battery.

For all people working with Lithium-ion Battery

As electric cars are becoming more popular, the demand for high quality Lithium-ion Battery is increasing.

To produce batteries that are safer and more efficient than existing ones, testing at each stage of work is indispensable.

Yamaha is putting forward a testing machine optimal for new age batteries.

### Battery Can Leak Tester

**No.1**  
performance  
Notice 1

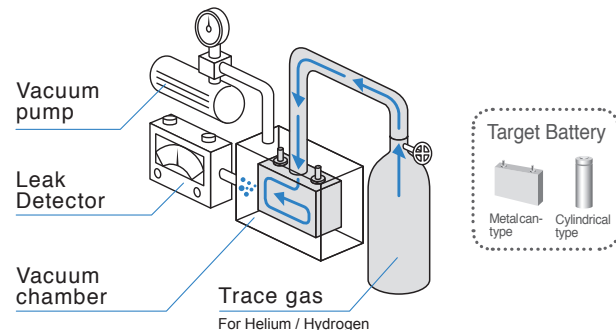
Have you been conducting leak testing after can sealing?

Gas-type automatic testing system that detects minute Lithium-ion Battery case leaks with high accuracy.

FOR Helium Hydrogen



- Feature**
- 1 Accurate detection of minute leaks
  - 2 Cycle time 3 seconds or less<sup>Notice 2</sup>
  - 3 Space-saving device size



#### Option



#### Recycle unit

Equipment for collecting and reusing trace gas.

**Merit** Recycling reduces risk of gas supply shortage and rising price

Notice1 : Helium-type leak testing system As of February 2019 Domestic delivery record (according to our data)

Notice2 : Helium 4-chamber type

### Hydrogen Gas Generator **New**

Have you taken measures against gas supply shortage?

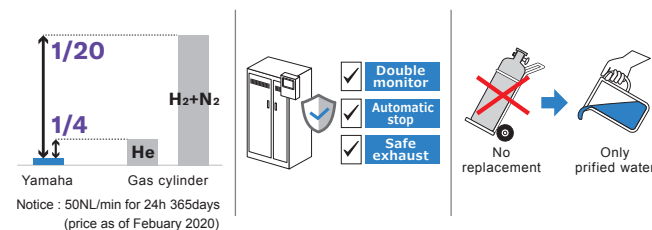
Provides a new automatic leak inspection system replaces conventional method.

Replaceable from Helium



YMHN-50

- Feature**
- 1 Reduces running costs
  - 2 Advanced safety system
  - 3 No need to change cylinders<sup>Notice 1</sup>



#### Combination



YHLD-100

#### Hydrogen leak detector

Detect hydrogen trace gas to identify leak amount and leak location.

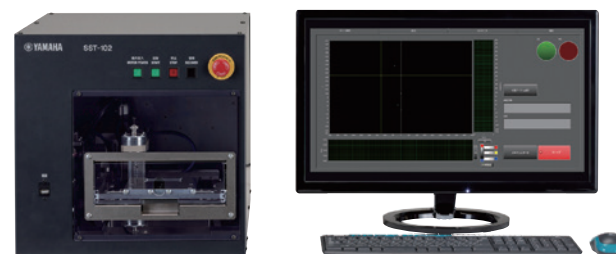
**Feature** High sensitivity and high speed response by MEMS hydrogen sensor

Notice1 : Daily gas cylinder replacement when gas cylinders are used for inspection

### TAB Welding Tester

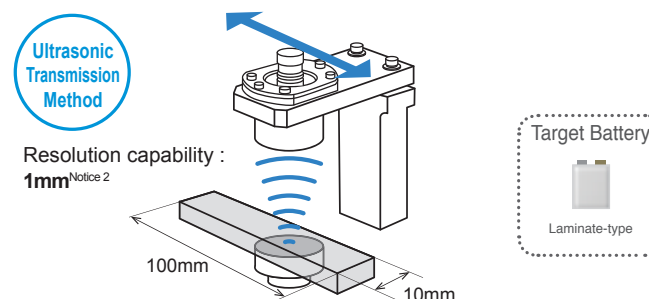
Have you been conducting 100% testing after TAB electrode welding?

Tests for defects originating from air layer of TAB electrode welding part of Lithium-ion Battery.



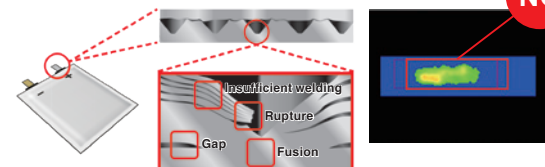
SST-102

- Feature**
- 1 Desktop type saves space
  - 2 Visualize and detect defects
  - 3 High-speed test in 4.5 sec.<sup>Notice 1</sup>



#### Solution example

#### Visualize and detect defects



Notice1 : Range described Notice2 : Minimum defect size detectable with standard head

### Residual Gas Tester

Have you been testing for degassing failure after liquid filling?

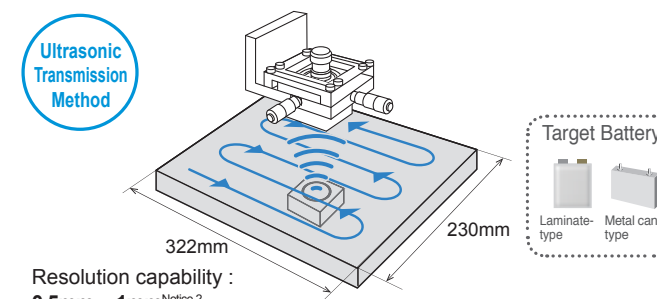
Non-contact inspection of residual air inside lithium-ion battery and impregnation state of electrolyte.



SST-304

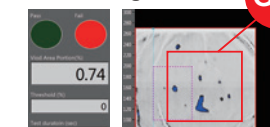
Supports inline SST-304C

- Feature**
- 1 Meet a wide range of demand
  - 2 Clear visualization of results
  - 3 Support mass production line<sup>Notice 1</sup>



#### Solution example

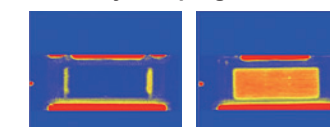
#### Residual gas



Quantitative testing with any threshold setting possible

Notice1 : Custom design Notice2 : Minimum defect size detectable with standard head

#### Electrolyte impregnation



Before impregnation After impregnation



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