

Fukuda presents...
[Fukuda Test Environment Solution]
Proposing testing conditions and environmental settings that are appropriate for achieving a long-term high cost-effectiveness and stability of equipments in conducting fluid testing.

For Hermetically Sealed Electronic Components Leak Test System

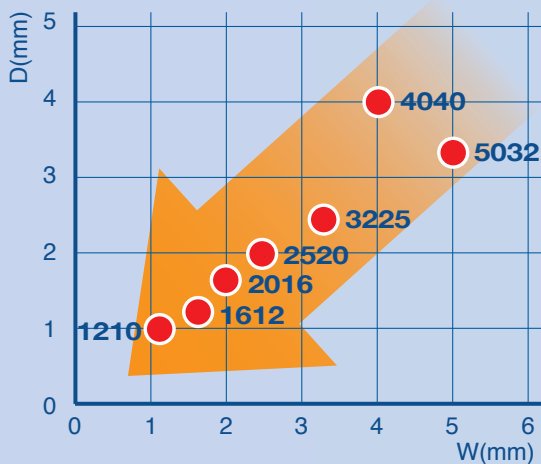
MSX-6100 series

- Leak test of micro size SMD (equivalent to 1210) in fully automatic operation!

World's first

Possible to measure minute leak to large leak of 1210 (internal volume equivalent to 0.05mm^3)!

Electronic parts such as SMD and SAW filters are being further miniaturized.



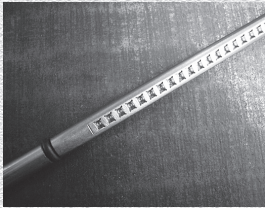
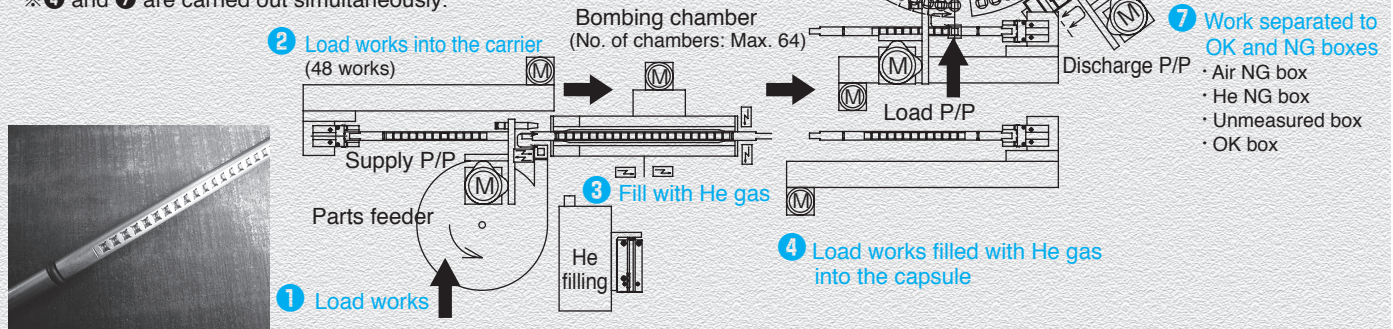
Product with leak is detected through measurement while controlling He charge and gross/ fine leak test conditions.

Fukuda's pursuit of miniaturization will continue further.

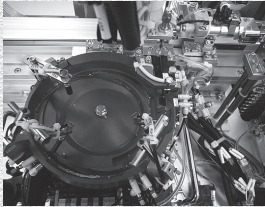
Full Automatic Air Leak Test System MSX-6100 System Operation

- ① Load works into the parts feeder
- ② Load works into the carrier using the parts feeder (48 works)
- ③ Move the carrier to the bombing chamber (No. of chambers: Max. 64) and fill it with He gas
- ④ Move the carrier of works filled with He gas from the bombing chamber and load works into the capsule
- ⑤ Detect gross leak through air leak test
- ⑥ Detect fine leak through He leak test
- ⑦ Gross leak NG, fine leak NG and OK works separated and dropped into relevant boxes

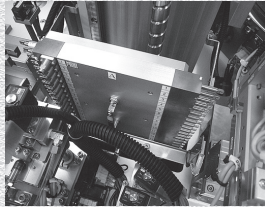
※④ and ⑦ are carried out simultaneously.



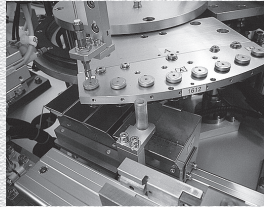
▲ Carrier



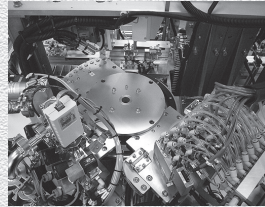
▲ Parts feeder



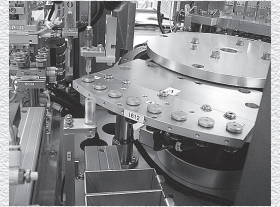
▲ Bombing chamber



▲ Load works into the capsule



▲ Measurement



▲ OK and NG separation boxes

Product Specification

Target Work	1210 (SMD)
Process Capacity	1.2 sec/ piece (including work transportation)
Bombing Time	Max. 60 min (adjustable)
Judgment Level	Gross: 2×10^{-7} Pam ³ /sec (equivalent standard leak) Fine: 1×10^{-9} Pam ³ /sec (He)
Pneumatic Pressure Source	Dry air Minimum assured pressure 0.5 MPa or more

Helium Source	0.6MPa or more Purity 99% Adjust the pressure to less than 1MPa when connecting from a high-pressure tank
Power Source	AC 220V \pm 10% 3-phase 50/60 Hz 4kVA
External Dimensions	1775(H) \times 1780(W) \times 1130(D) mm (Signal tower and HEPA filter excluded)

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※ Signifies ISO applications not met by Fukuda.