

VIBRATION TESTER TRANSPORTATION TESTER



CNOF-2059

IDEX CO., LTD

Transportation Tester

BF-50UT BF-50FT BF-100UT

It only takes 20 minutes to reproduce condition equivalent to distance of 1000km by a truck

BF-50UT

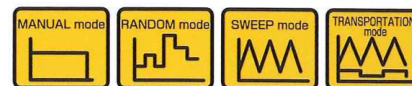
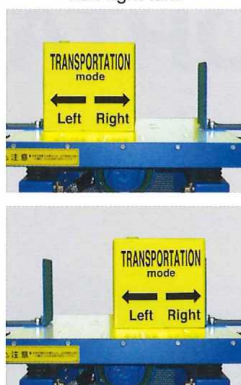


3-axis vibration

- Possible to reproduce 3-axis (X·Y·Z) simultaneous vibration same as real transportation conditions and simulate left-right turn by a truck
- No need for general construction
Installation space requires only 1m³
- Low noise 72dB or below



Left-right turn



[Specifications]

Vibration direction / Up/down, right/left, front/rear
(3-axis simultaneous vibration)

Adjustable displacement range / 0.2~2.6mmP-P

Vibration table / 500 x 600mm with L-type jig

Frequency range / 10~67Hz (0.1Hz unit)

Acceptable acceleration range / 98m/s²(10G)

Maximum loading weight / 50kg

Operation mode / MANUAL/RANDOM/SWEEP/
TRANSPORTATION

Temperature and humidity / 0~40°C

(No condensation)

Power source / AC200~240V 3phase 50/60Hz

(1 phase required, please specify)

Dimensions and weight /

500(W) x 600(D) x 650(H)mm / Approx. 80kg

Wide temperature range -30°C~60°C apply to transportation environment test

BF-50FT

3-axis vibration

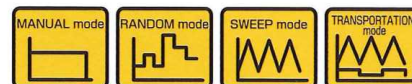
- Test for subfreezing conditions in the winter and high temperature in the summer
- Just placing the tester in a freezer or chamber
- It is utilized as the model BF-50UT without the sub-table

Purpose

- Friction
- Puncture
- Deposition
- Functional decline of cushioning material
- Damage
- Pin-hole
- Separation
- Cracking etc



It is capable of testing in a freezer or chamber



[Specifications]

Vibration direction / Up/down, right/left, front/rear
(3-axis simultaneous vibration)

Adjustable displacement range / 0.2~2.0mmP-P

Vibration table / 500 x 600mm with L-type jig

Frequency range /

Normal temperature: 10~67Hz (0.1Hz unit)

Subfreezing temperature: 10~40Hz (0.1Hz unit)

Acceptable acceleration range / 98m/s²(10G)

Maximum loading weight / 50kg

Operation mode / MANUAL/RANDOM/SWEEP/
TRANSPORTATION

Temperature and humidity /

Vibration unit: -30°C~60°C (No condensation)

Control unit: 0~40°C (No condensation)

Power source / AC200~240V 3phase 50/60Hz

(1 phase required, please specify)

Dimensions and weight /

Vibration unit: 500(W) x 600(D) x 670(H)mm / Approx. 85kg

Control unit: 650(W) x 460(D) x 900(H)mm / Approx. 60kg

* Height of a signal tower is not included

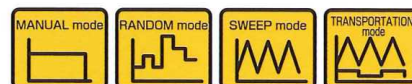
Load up to 120kg / Great capacity table 1000 x 800 mm

BF-100UT



3-axis vibration

- For vibration proof test of large equipment
- For verification of outer packaging friction by loading test objects in parallel
- Several tests under the same conditions are possible
- No need for general construction / Just use leveler to install



[Specifications]

Vibration direction / Up/down, right/left, front/rear
(3-axis simultaneous vibration)

Adjustable displacement range / 0.4~2.5mmP-P

Vibration table / 1000 x 800mm with L-type jig

Frequency range / 10~50Hz (0.1Hz unit)

Acceptable acceleration range / 49m/s²(5G)

Maximum loading weight / 120kg

Operation mode / MANUAL/RANDOM/SWEEP/
TRANSPORTATION

Temperature and humidity / 0~40°C

(No condensation)

Air source / 0.4~0.6MPa (4~6kgf/cm²) (*1)

Power source / AC200~240V 3phase 50/60Hz

(1 phase required, please specify)

Dimensions and weight /

Vibration unit: 1000(W) x 800(D) x 445(H)mm / Approx. 180kg

Control unit: 650(W) x 460(D) x 900(H)mm / Approx. 60kg

* Height of a signal tower is not included
(*1) If there is no compressed air supply, please use a compact air compressor

Vibration Tester

BF-50UD BF-45UA-E BF-70UA-E BF-70UA-E-T BF-25H-100/200 BF-100PS/200PS

Multipurpose 2-axis vibration

BF-50UD

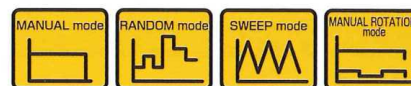


2-axis
vibration

- Quality evaluation test for electronics-related products
- Screening of initial failure and total inspection under production line

Purpose

- Notebook computer • LCD television
- Car navigation system • Various electronic parts
- Mobile phone • Mounting board
- Various measurement instrument
- Damage, Cracking, etc.



[Specifications]

Vibration direction / Up/down, right/left
(2-axis simultaneous vibration)
Adjustable displacement range / 0.2~3.0mmP-P
Vibration table / 450 x 516mm
Frequency range / 10~67Hz (0.1Hz unit)
Acceptable acceleration range / 98m/s² (10G)
Maximum loading weight / 50kg
Operation mode / MANUAL/RANDOM/SWEEP/
MANUAL ROTATION
Temperature and humidity / 0~40°C
(No condensation)
Power source / AC200~240V 3phase 50/60Hz
(1 phase required, please specify)
Dimensions and weight /
450(W) x 516(D) x 650(H)mm / Approx. 77kg



[Specifications]

Vibration direction / Up/down
Adjustable displacement range /
45UA-E: 1.2~3.5mmP-P
70UA-E: 0.8~3.0mmP-P
70UA-E-T: 0.8~2.8mmP-P
Vibration table / 45UA-E: 530 x 582mm
70UA-E: 550 x 622mm
70UA-E-T: 650 x 722mm
Frequency range / SWEEP: 10~67Hz (0.1Hz unit)
MANUAL, RANDOM: 15~67Hz (0.1Hz unit)
Acceptable acceleration range / 98m/s² (10G)
Maximum loading weight / 45UA-E: 45kg
70UA-E, -T: 100kg
Operation mode / MANUAL/RANDOM/SWEEP
Temperature and humidity / 0~40°C
(No condensation)
Power source / AC200~240V 3phase 50/60Hz
(1 phase required, please specify)
Dimensions and weight /
45UA-E: 530(W) x 582(D) x 650(H)mm / Approx. 105kg
70UA-E: 550(W) x 622(D) x 650(H)mm / Approx. 115kg
70UA-E-T: 650(W) x 722(D) x 650(H)mm / Approx. 125kg

1-axis (Up/down) vibration tester

BF-45UA-E BF-70UA-E BF-70UA-E-T

- Best suited for screening of mounting board and various types of electronics
- Load up to 100kg
Characteristic of vibration direction can be understood



Vibration proof / Endurance test



Compact Vibration Tester

BF-25H-100/200

- AC100V/200V
- Load up to 25kg



Desktop type

Purpose

- Bad solder • Removal of dust
- Poor contact of connector, etc.



[Specifications]

Vibration direction / Up/down
Adjustable displacement range / 0~1.5mmP-P
Vibration table / 450 x 350mm
Frequency range / Fixed frequency type (50 or 60Hz)
Acceptable acceleration range
50Hz type: 73.5m/s² (7.5G)
60Hz type: 98m/s² (10G)
Maximum loading weight / 25kg
Operation mode / Timer, continuous operation
Temperature and humidity / 0~50°C (No condensation)
Power source specify / AC100V 50 or 60Hz (*2)
AC200V 50 or 60Hz (*2)
Dimensions and weight /
400(W) x 373(D) x 310(H)mm / Approx. 30kg
(*2) Please specify when you order

OPTION

Wide variety of options suitable for your purpose

Digital Vibration Meter 1332B-S2



It is used as a standard instrument when setting displacement and acceleration.

- Acceleration range 1~199.9m/s²
- Displacement range 0.01~19.99mmP-P
- AC output ±2V(MAX)
- Power source AA battery x 2 pc
- Traceability / Calibration certificate

Step-up transformer



It is used to increase voltage from 100V to 200V when the power source is not 3 phase or single phase 200V 50/60Hz.

- Input voltage 100V
- Noise reduction
- Output voltage 200V
- Capacity 1KVA

Jig for up/down vibration



It is possible to control horizontal vibration by using the jig. It is compliant with JIS & IEC.

Cubic shape jig



Up/down vibration and horizontal vibration are available for once operation by setting electronic parts and unit on 3 to 5 surface of the jig.

INTRODUCTION EXAMPLES

	DESIGN / DEVELOPMENT / QC	ACCEPTANCE TEST	PRODUCTION LINE	TRANSPORTATION / ENVIRONMENT TEST	TRANSPORTATION TEST / QUALITY GUARANTEE
	•Endurance / Vibration proof test •Performance / Safety check	•PC board, assembly parts •Removal of wire rod / solder ball	•Pre-inspection •Aging / Sampling test •Burn-in •Completion test	•Transportation packaging test •Scratching, stain, pin-hole •Damage check for instruments and packaging	•Subfreezing / High temperature environment test •Deposition •Puncture •Damage •Separation •Pin-hole •Cracking
	UA	25H	UD	UT	FT
3-axis					
2-axis					
1-axis					

Manufacturer



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Made in Japan