



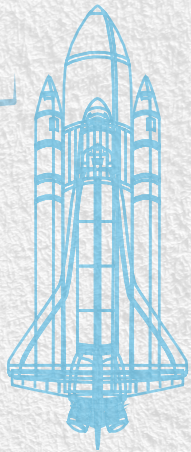
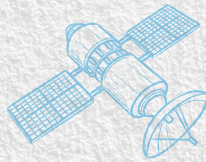
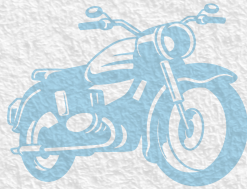
WORLD ONE INSTRUMENTS PVT LTD

Environmental Testing & Calibration Centre

ISO 9001 : 2015 Certified Company

522, 4th Cross, 10th Main, 4th Phase Peenya, Industrial Area, Bengaluru - 560058

Email: worldonetesthouse@wois.in | worldonetesthouse@gmail.com | Ph: 9900099913 | 9900126533



Combined
Temperature &
Vibration
Testing



Altitude
Testing



Centrifuge
Acceleration
Testing



Thermal
Cycling Testing



Vibration
Testing



Salt Spray
Testing



Bump Testing



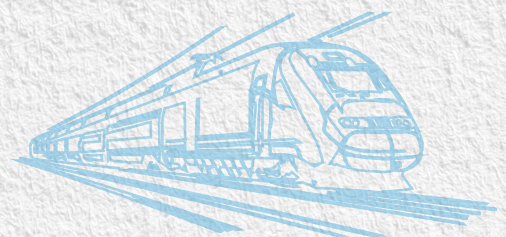
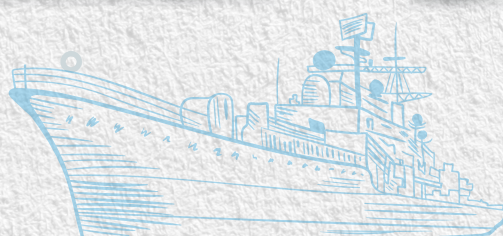
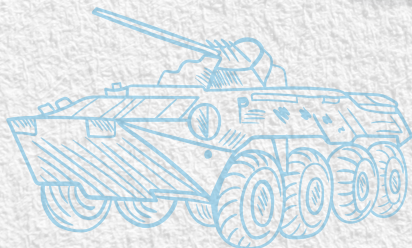
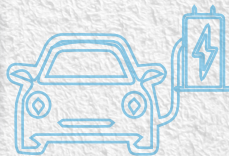
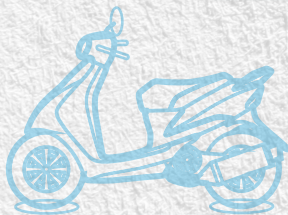
Battery Testing



Shock Testing



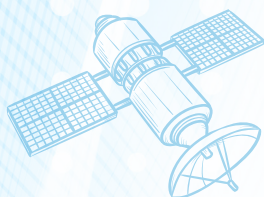
IP Testing





WORLD ONE INSTRUMENTS PVT LTD

Environmental Testing & Calibration Centre



ABOUT US



We, World One instruments Pvt. Ltd is an Environmental Testing laboratory for Verifying, Testing and Validating the Products related to Aerospace, Automobile, Defence, Automotive Components from many industries like Electrical, Electronic, Mechanical and Medical etc.

We are provide testing services like Combined Temperature & Vibration Testing, Centrifuge Acceleration Testing, Vibration Testing, Bump Testing, Shock Testing, Altitude Testing, Thermal Cycling Testing, Thermal Shock Testing, and High Temperature Storage cum Operation Testing, Low Temperature Storage Cum Operation Testing, Damp Heat Testing, Tropical Exposure Testing, Salt Spray Testing, Battery Testing, Drop Testing, and IP Testing.

Our Understanding in the Environmental Testing helps the customer to ease the process of testing and delivering the foremost Products on Time.

Environmental Testing Facility

➤ Combined Temperature & Vibration Testing

➤ Centrifuge Acceleration Testing

➤ Vibration Testing

- Sinusoidal Vibration
- Random Vibration
- Mixed Mode Vibration

➤ Bump Testing

➤ Shock Testing

➤ Altitude Testing

➤ Drop Test

➤ Thermal Testing

- Thermal Cycling Testing
- Thermal Shock Testing
- High Temperature Storage Cum Operation Testing
- Low Temperature Storage Cum Operation Testing
- Damp Heat Testing
- Tropical Exposure Testing

➤ Tensile and Compressive Strength

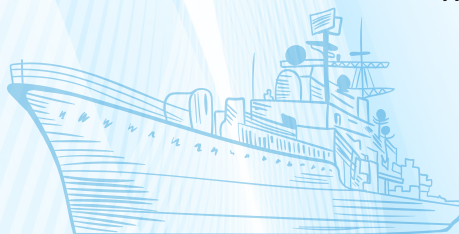
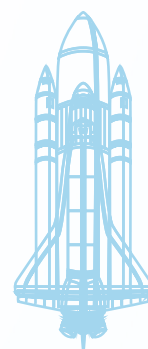
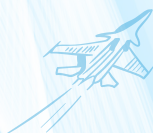
➤ Bending Test on Cables

➤ Salt Spray Testing

➤ Battery Testing

➤ IP Testing

- Dust
- Water



**WORLD ONE INSTRUMENTS PVT LTD****Environmental Testing & Calibration Centre****Combined Temperature & Vibration Testing****Machine Details****Environmental Test Chamber Specification**

Chamber Dimensions : 1000 X 1100 X 950mm
 Temperature Range : -70°C to 180°C
 Humidity Range : 20 to 98 % Rh
 Temperature Tolerance : $\pm 2^{\circ}\text{C}$
 Humidity Tolerance : $\pm 03\%$ Rh
 Maximum Ramp Rate : $15^{\circ}\text{C}/\text{min}$

3500 Kgf Vibration Shaker Specification

Acceleration : 100g
 Velocity : 1.8 m/sec
 Displacement : 51mm pk-pk
 Frequency Range : 1-3000 Hz
 Payload capacity : 375kg
 Slip Table : 800 X 800mm
 Head Expander : 800 X 800 & 1000 X 1000mm

➤ **SCOPE: ISO 16750-3****Centrifuge Acceleration Testing****Machine Details**

Machine Platform : Rotating / Boom
 Machine Size : 700mm *1900mm
 Platform/Boom Size : 450 to 950 mm
 Acceleration Range : 01 to 100g
 Maximum payload : 100KG

**Scope**

- IEC 60068-2-78:2012
- IEC 60068-2-30:2008
- IEC 60068-2-67:1995
- IS 9000(Part4):2008
- IS 9000 (Part 5):1981 (RA 2007), MIL 810H:2019
- JSS 55555 REV.03 (Test No.10): 2012,
- IEC 60068-2-27
- JSS-5855-11 (test no. 06):2019
- IS 9000 (PART 6)
- IEC 60571sub C(Edition 3.0): 2012, Clause No 10.2.11
- MIL - STD 810 C
- JSS 55555: Rev 2-Test Number 10:2000
- RTCA DO-160F add section6
- IS 10236 (Part 5):Reaffirmed 2016,
- RTCA/DO-160G (Section 6):2010
- IEC 60068-2-78: 2012
- IS 9000 (Part 5 Sec 1 & 2):Reaffirmed 2019,
- IS 10236 (Part 4):Reaffirmed 2016
- IEC 60068-2-30 (Edition 3.0):2005,
- RTCA/DO-160G (Section 6): 2010
- JSS 55555: Rev 2-Test Number 10:2020
- JSS-0256-01, Rev 1, Test Number : 1
- DIN EN 60068-2-38 Z/AD
- MIL-STD-810F: section 507.4

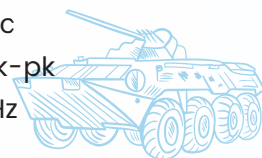


Vibration Testing

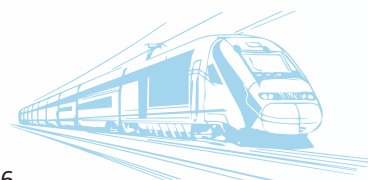


Machine Details

Shaker Force Range	: 3500 kgf
Acceleration	: 100g
Velocity	: 1.8 m/sec
Displacement	: 51mm pk-pk
Frequency Range	: 1-3000 Hz
Payload capacity	: 375kg
Slip table	: 800 X 800mm
Head Expander	: 800 X 800 & 1000 X 1000mm

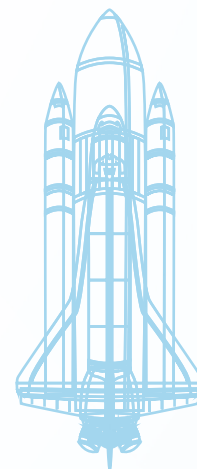


Scope



- Sine: IS 9000 (part 8) (RA 2003)
- IEC 60068-2-6:2007
- JSS 50101 1996(RA 2001)
- JIS D1601:2005
- Mixed mode: IEC 60068-2-80 (Part 2):2005
- MIL STD -810H 2019
- Random: IEC 60068-2-64:2008
- IEC 61373
- MIL-STD-2164A:1996
- ASTM D 999: 1996 method-A,B,C
- JSS-5855-11 (test no.19):2019
- MIL-STD-810F Method 514.5
- IEC 60068-2-80-Part 280
- JSS 55555: Test Number 28 2012
- DIN EN 60068-Part 26
- ISO 12405
- JSS 50101:
- IS 9000(Part8)
- IEC 60571
- IEC 61373
- IEC 60068-53
- ISTA 1A, 2A, 3A, 3E
- JSS 50101, Test number 23 & 24
- IS 9001 part 8: 2021

- ISTA 1A, Sequence 1
- ISTA 2A, Sequence 4 & 6
- ISTA 3A, Block 4&7
- JIS D 1601
- JSS 55555, Rev 3 Test Number 28: 2012
- JSS-0256-01, Rev 1 Test Number: 15
- MIL STD 810G, Method 514.6
- MIL STD 810H, Method 514.8
- MIL STD-810F, Section 514.5
- MIL-PRF-28800F Class 3, clause 4.5.5.3
- RTCA DO-160F, Section 8.0
- ASTM D 7386-16, Schedule D
- ASTM D4169, SCHEDULE D,E,F
- IEC 60068-2-6
- IEC 60068-2-64
- IEC 60068-2-80, mixed mode
- IEC 60571, clause 12.2.12
- IEC 61373
- IS 9000(Part 8)
- ISO 16750-3, clause 4.1
- ISO 2247
- ASTM 999-08, Method A1
- Is 10236 part 11:2016





WORLD ONE INSTRUMENTS PVT LTD

Environmental Testing & Calibration Centre

Shock Testing



Machine Details

Maximum Acceleration	: 200g
Mount Table	: 750mm X 750mm
Pulse Duration	: 03 to 30ms
Maximum Payload	: 300Kgs

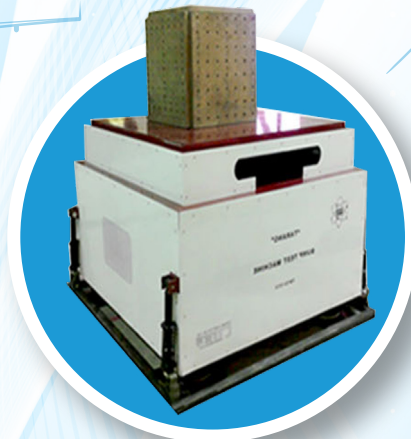
Scope

- IEC 60571 edition 03: 2012 Sub Clause No 10.2.11
- MIL-STD-810H: 2019
- ISO 9022-3:1998
- IS 9000 Part 7: Sec 1: 2018
- JSS-50101: 2001 (Test No.12)
- JSS-5855-11(Test No.16):2019
- ISO 15003: Sec 5.5.2
- IEC 60068 -2-27
- IEC 60571 Sub Clause No 12.2.12
- RTCA DO-16F Section 7
- JSS 55555 Test Number 24, Clause 3.3.2, & Procedure: 2
- IEC 61373(Edition 2.0): 2010
- JSS 55555 Rev No: 03(Test NO.24):2012
- ISO 16750-3:2012
- DIN EN 60068-2-27:1987
- MIL-PRF-28800F Class 3, Clause 4.5.5.4.1
- ISO 12405-1 :(E) Sec 8.4
- JSS-0256-01, Rev 1 Test Number: 18
- MIL STD 810F Method 516.5, Procedure I, V
- MIL STD 810G Method 516.6, Procedure I, V
- MIL STD 810H Method 516.8, Procedure IV
- IS 10236 (Part 12): Reaffirmed 2016
- RTCA/DO-160G (Section 7):2010
- JSS 55555 Rev NO: 04(Test No.24):2020
- JSS 55555 Rev NO: 02(Test No.24):2000

Bump Testing

Machine Details

Platform	: 750 X 750 dimensions
Load Capacity	: 350 Kg including fixture
Acceleration	: 03 to 60g
Pulse Range	: 03 to 18ms
Pulse Duration	: 01 to 03 bumps per second



Scope

- IS 9000-7(Sec II to Sec IV)
- IEC-60571-Sub Clause No 10.2.11:
- JSS-5855-11: Test No.03:2019
- JSS 55555:2012 Rev3-Test Number 5:2012
- JSS-0256-01 REV 1 TEST NUMBER: 21
- JSS 55555 Rev No: 04 (Test No.05):2020
- IS 10236 PART 10:2016
- JSS-5855-11: Test No.03:2009



WORLD ONE INSTRUMENTS PVT LTD

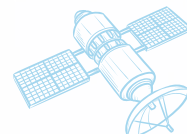
Environmental Testing & Calibration Centre

Altitude Testing



Chamber Details:

Altitude Pressure	: From ambient to 01 mbar
Chamber Dimensions	: 650 litres
Temperature Range	: -70°C to 180°C
Temperature Tolerance	: $\pm 2^\circ\text{C}$
Humidity Range	: 10 to 98% Rh
Humidity Tolerance	: $\pm 0.3\%$ Rh



Scope

- JSS 55555: 2012,
- DO-160 G(Section 4.0):2010
- MIL STD 810H:2019, UN 38.3
- JSS-5855-11 (Test no. 01): 2019
- JSS 55555: Test Number 3:2012
- ISO 15003: Sec 5.9
- MIL-STD-810F-Section 500.4
- IEC 60068-2-13
- ISO 15003, clause 5.9
- MIL STD 810G, Method 500.5, Procedure 1,2,4.5.2,4.5.3
- MIL STD 810 H, 500.6, Procedure I & II
- RTCA DO-160F Section 4, Clause 4.6.1, 4.6.3
- IEC 60068-2-13
- ASTM D 4169-16, Schedule I
- IS 10236 (Part9):Reaffirmed 2016
- IS 9000 (Part 13): Reaffirmed 2019,
- ASTM D 4169-16, Schedule I
- IS 9000 (Part 31):Reaffirmed 2019,

Salt Spray Testing

Machine Details

Chamber Dimensions	: 600 ltrs
Temperature Range	: Ambient to 65°C
Humidity Range	: ambient to 98% Rh
Temperature Tolerance	: $\pm 0.2^\circ\text{C}$
Humidity Tolerance	: $\pm 0.3\%$ Rh



Scope

- IEC 60068-2-11:1981,
- IEC 60068-2-52:1996,
- IS 9000 (Part 1):2016 (method K)
- ASTM B117 Rev:2007a
- ASTM B117 Rev:2019
- JIS Z 2731
- JSS-55555 : 2012 (test no.09)
- JSS-5855-11: 2019 (Test no.05)
- IEC 60571 Clause No 10.2.10
- MIL 1344A METHOD 1001.1
- JIS C 0023
- ISO 9227
- MIL STD 810H: Method 509.7:2019
- JSS-0256-01:2008 REV02 (TEST No.12)
- ASTM 999-08, Method A1
- RTCA DO-160F section 14
- IS 9000(Part 11) Procedure 1
- IEC 60571 (Edition 3.0):2012,
- ISO 10236 Part 6 : 2016
- ASTM B 117
- ISO 15003: Sec 5.7
- ISO 3768



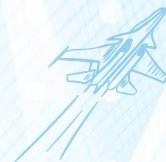
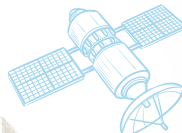


WORLD ONE INSTRUMENTS PVT LTD

Environmental Testing & Calibration Centre

Thermal Cycling Testing/Battery Testing Chambers

(Thermal Shock Testing | High Temperature | Low Temperature Storage
Cum Operation | Damp Heat (Humidity Test) | Tropical Exposure Test)



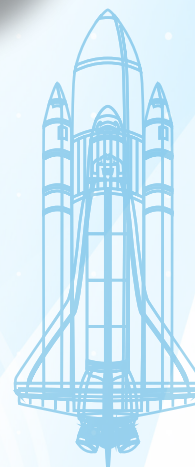
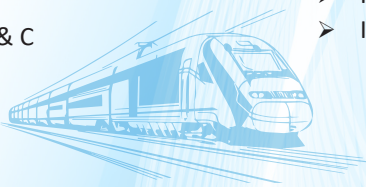
Machine Details

Chamber Dimensions	: 1000X1000X1000mm
Temperature Range	: -70°C to 180°C
Humidity Range	: 20 to 98% Rh
Temperature Tolerance	: $\pm 2^{\circ}\text{C}$
Humidity Tolerance	: $\pm 0.3\%$ Rh
Maximum Ramp Rate	: $15^{\circ}\text{C}/\text{min}$



Scope

- IS-9000 (Part 14/Sec I & II)
- IS 9000 (PART 6)
- IEC 60068-2-14 (Edition 6.0):2009 (Test Na, Test Nb)
- IEC 60068-2-38
- ISO 15003: Sec 5.2.1
- RTCA DO-160F section 5, Category B & C
- MIL-STD-2164: 1985,
- MIL-HDBK-344A: 1993
- MIL-STD-2164A: 1996
- RTCA/DO-160G (Section 5) :2010
- ISO 16750-4, Clause 5.2, 5.3
- Is 10236 (part 8): 1983



FOR MORE DETAILS PLEASE VISIT: www.wois.in

IP Testing Water and Dust Ingress Testing



IPX1-IPX2



IPX3-IPX4



IPX5-IPX6



IPX7-IPX8



IPX9K



JSS 55555/IS9000



JIS D 0203

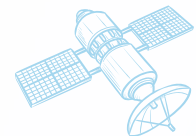
WATER: IPX1 | IPX2 | IPX3 | IPX4 | IPX5 | IPX6 | IPX6k | IPX7 | IPX8 | IPX9k

DUST TESTS: IP1X, IP2X, IP3X, IP4X, IP5X & IP6X

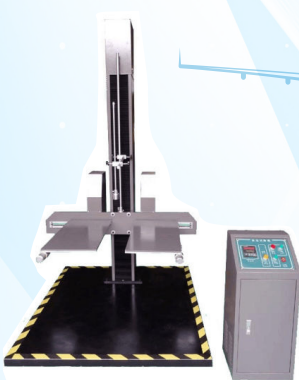


Scope:

- IEC-60529 : 2013
- ISO-20653 : 2013

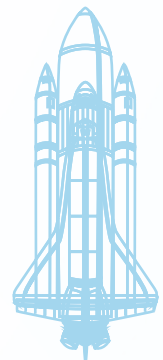


DROP TEST



Scope:

ASTM D 7386, MIL STD 810,
ASTM D4169, ASTM D5276, IEC 60068,
IS 16750-4, IS 9000, ISTA 1A, 2A, 3A,
ISO 16750, JSS 0256, JSS 55555



WORLD ONE INSTRUMENTS PVT LTD

Environmental Testing & Calibration Centre

ISO 9001 : 2015 Certified Company

522, 4th Cross, 10th Main, 4th Phase Peenya, Industrial Area, Bengaluru-560058

Email: worldonetesthouse@wois.in | worldonetesthouse@gmail.com | Ph: 9900099913 | 9900126533