



Denkei R&D (Shanghai) Co.,Ltd

CNAS Accredited Testing Laboratory No. L3746

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Denkei R&D(Shanghai) joint stock company is formerly known as Denkei R&D(Shanghai) Ltd.. It is the joint venture of the Nihon Denkei and the staff of the Denkei China. It belongs to the Group of Denkei China, it provides all kinds of professional and technical services of the entrusted test center, especially for the automotive industry customers. The testing business covers environmental reliability test, electrical performance test, VOC test, material test, test failure analysis and new energy vehicle test, etc. The calibration business includes optical equipment calibration, electrical equipment calibration, test equipment calibration and other aspects.

In 2017, Denkei R&D established a new test center branch in southern Jinqiao area, Pudong district, Shanghai, which greatly improved its test capacity. In the second half of 2018, it introduced new energy vehicle testing projects, mainly for performance and reliability testing of battery, motor and electric control projects. In addition to expanding its business scope and improving its hardware capabilities, Denkei R&D was successfully passed the CMA certification in 2018.

In 2019, Denkei R&D cooperated with Japan's RESONIC company to test the inertial characteristics of the core components of the vehicle in China. In addition, it plans to import advanced Japanese technology, to discuss the development of automobile body disintegration, as well as the analysis of motor performance and materials in China, so as to enhance the added value of services and expand various new testing fields to provide more professional and high quality services.

In 2020, Alliance Testing (Suzhou) Co.Ltd. was formally incorporated into Denkei R&D, officially operated as Denkei R&D(Suzhou) Co.Ltd.. It provides services to the vast number of customers in Jiangsu and Anhui regions.

Denkei R&D provides technical service for all customers through the innovation of the management system of IOT. It corporates with Denkei Trade with the instruments and environmental testing equipment sales, maintenance and etc. Denkei China Group is committed to provide the general customers the one step services of ' sales + test + calibration and maintenance, to establish the unique image of Denkei China Group, and strive to become a best technical partners with our clients .

* Minhang Testing Lab



* Pudong Testing Lab



* Suzhou Subsidiary



[Http://www.sh-denkei-rnd.cn](http://www.sh-denkei-rnd.cn)

Minhang Testing Lab:

Address: No.609, Ziri Road, Zizhu Science-Based Industrial Park, Shanghai, China, 200241

Tele phone: 021-58205887 Fax: 021-34293305

Pudong Testing Lab:

Address: No.786, Wangqiao Road, Pudong New Area, Shanghai, China, 201201

Tele phone: 021-58205887 Fax: 021-34293305

Suzhou Subsidiary

Address: No.521, Zhujiang Road, High-tech zone, Suzhou

Telephone: 0512-66902378 Fax: 0512-66902398

Environmental Test Equipment List

1 Minhang Testing Lab

Environment Test Lab	Thermal Shock Chamber	ETAC	NT530W/NT12	5	set
	Thermal Shock Chamber	ZUNDAR	ZTS045L	1	set
	Thermal Shock Chamber	Partner	TS3065W	2	set
	Thermal Shock Chamber	Partner	TSV20065W	1	set
	Power Temperature Cycle Chamber	ESPEC	EGNX12-6CAL	2	set
	Power Temperature Cycle Chamber	ZUNDAR	ZT050UK	1	set
	Power Temperature Cycle Chamber	Partner	PHR710W-L15	3	set
	Low Temperature & Humidity Chamber	ETAC	FX734/424	3	set
	Low Temperature & humidity chamber	ETAC	TH403	2	set
	Low Temperature & Humidity Chamber	ZUNDAR	ZTH050U	2	set
	Bench-Top Type Temp & humidity chamb	ESPEC	SH-241	1	set
	Highly Accelerated Stress Test chamber(H	ETAC	PM420	1	set
	High Temperature Test Chamber	ESPEC	PH101	3	set
	High Temperature Test Chamber	ESPEC	PV212/231/331	7	set
	Temperature & Humidity Chamber	ESPEC	PR-2KP	1	set
	Temperature Cycling Chamber	ESPEC	SET-Z-021UF	1	set
	Temperature Cycling Chamber	ESPEC	MC-711P	1	set
	Dust Test Chamber	ZUNDAR	ZSC100B2	1	set
	Dust Test Chamber	SUGA	DT-1F	1	set
	Water Test Chamber	ZUNDAR	ZLY100BF	1	set
	Water Test Chamber	ZUNDAR	AZRA2250-B5	1	set
	Temperature & Humidity Air pressure Cha	ZUNDAR	ZTHVA010R	1	set
Vibration / Mechanical shock Test Lab	0.3T Vibration Test System	EMIC	F-3K/30FA	1	set
	3T Vibration Test System	EMIC	F-33000	1	set
	5T Vibration Test System	STI	DC-5000-50	2	set
	6T Vibration Test System	STI	DC-6000-60	1	set
	12T Vibration Test System	STI	DC-12000-120	1	set
	3T Combined Enviroment Test System	EMIC+ZUNDAR	F-33000	1	set
	5T Combined Enviroment Test System	STI+ZUNDAR	DC-5000-50	2	set
	6T Combined Enviroment Test System	STI+ZUNDAR	DC-6000-60	1	set
	12T Combined Enviroment Test System	STI+ZUNDAR	DC-12000-120	1	set
	Mechanical Shock Test System	STI	CL-300	1	set

	Drop Test System	STI	DLJ-100	1	set
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SUGA Test Lab	Combined Cyclic Corrosion Test Instrumer	SUGA	CCT-1L	1	set
	Combined Cyclic Corrosion Test Instrumer	SUGA	CYP-90	3	set
	Combined Cyclic Corrosion Test Instrumer	SUGA	CYP-230Z	1	set
	Xenon Weather Meter	SUGA	GX-75	1	set
	Flowing Mixed Gas Gorrosion Test Instrum	SUGA	GT-100	1	set
	Universal Testing Instrument	SHIMADZU	AGS-1000NX	1	set
	Digital Force Gauge	NIDEC-SHIMPO	FGP-50	1	set

2 Pudong Testing Lab

Environment Test Lab	Thermal Shock Chamber	ZUNDAR	AZTS300U-2T-S	1	set
	Thermal Shock Chamber	ZUNDAR	AZTS500U-2T	2	set
	Thermal Shock Chamber	ZUNDAR	AZTS1000U-2T	2	set
	Power Temperature Cycle Chamber	ZUNDAR	EXTH1000U-15-ESS-SP	2	set
	Power Temperature Cycle Chamber	ZUNDAR	EXTH2000U-15-ESS	4	set
	Low Temperature & Humidity Chamber	ZUNDAR	EEXTH600U	1	set
	Low Temperature & humidity chamber	ZUNDAR	EEXTH1500U	4	set
	Low Temperature & Humidity Chamber	ZUNDAR	ZTH020L	1	set
	Dewing Test Chamber	ZUNDAR	EXTH1000U-SP	1	set
	Temperature Cycling Chamber(Walking Ch	ZUNDAR	AZTH8U	1	set
	Temperature Cycling Chamber(Walking Ch	ZUNDAR	AZTH12U	1	set
	Ice Water Impact Splash Water Test Cham	ZUNDAR	AZRA 1000-SP	1	set
Vibration / Mechanical shock Test Lab	Gravel Multi-Function Impact Testing Mac	Q-lab	MTG	1	set
	5T Vibration Test System	STI	DC-5000-50	1	set
	6T Vibration Test System	STI	DC-6000-60	2	set
	8T Vibration Test System	STI	DC-8000-80	1	set
	12T Vibration Test System	STI	DC-12000-120	1	set
	5T Combined Enviroment Test System	STI+ZUNDAR	DC-5000-50	1	set
	6T Combined Enviroment Test System	STI+ZUNDAR	DC-6000-60	2	set
	8T Combined Enviroment Test System	STI+ZUNDAR	DC-8000-80	1	set
	12T Combined Enviroment Test System	STI+ZUNDAR	DC-12000-120	1	set
Electric Test Lab	Electrostatic Discharge Simulator	NOISEKEN	ESS-S3011/GT-30R	1	set
	Withstand voltage & Insulation Resistance Test System	KIKUSUI	TOS9201	1	set

	Intelligent Bi-Polar Power Supplies	KIKUSUI	PBZ Series	16	set
	Moment Disconnection Tester	NAC	NMS10	1	set

New Energy Laboratory	Walk-in Constant Temperature & Humidity Chamber	ZUNDAR	AZWTH12U-1	2	set
		ZUNDAR	AZWTH12U-5	1	set
	Walk-in Alternation Salt Spray Test Chamber	ZUNDAR	AZWTH12R-CC	2	set
	Power Battery Assembly Charge-Discharge Test Equipment	Dlgatron	EVT200-1000	3	set
		MKLtech	BPT2-300-100	2	set
	Mechanical Shock Test System	STI	QCL-1000A	1	set
	Large Gas Corrosion Testing Machine	SUGA	GS-UVZ	1	set
	20T Vibration Test Equipment	STI	DC-20000-200	1	set
	20T Combined Environment Reliability Test System	STI+ZUNDAR	DC-20000-200	1	set
	Programmable DC Power	Chroma	62012P-600-8	10	set
	Battery Test Device	Hangke	LIT-05360A	1	set
	Power Recycle Battery modular Test System	Chroma	MODEL17030	2	set
Center of the Mass	Battery Charge/Discharge Test System	Chroma	MODEL17011	1	set
	Inertial characteristic measuring device	RESONIC	RESONIC 350	1	set

3. Suzhou Subsidiary Equipment list

Total: 23

Vibration Test	3-Comprehensive Vibration Test	EMIC	F-16000BDH/LA16AW VC-102DAFX (43) P3N	1	set
	3-Comprehensive Vibration Test	EMIC+ZUNDAR	F-35000BDH/LA36AW/AZW18TH1800U	1	set
Environment Lab	Power Temperature Cycle Chamber	HITACHI	EC-25EXHH	2	set
	Power Temperature Cycle Chamber	HITACHI	EC-85EXH	1	set
	High/Low Temperature & Humidity Chamber	HITACHI	EC-86MHHPE	1	set
	High/Low Temperature & Humidity Chamber	HITACHI	EC-46MHHPE	1	set
	High/Low Temperature & Humidity Chamber	HITACHI	EC-86MHPH	1	set
	High/Low Temperature & Humidity Chamber	GWINSTEK	GEC-85MHHPM	2	set
	High/Low Temperature & Humidity Chamber	GWINSTEK	ETH-040B	1	set
	Thermal Shock Chamber	HITACHI	ES-106LH-R	1	set
	Thermal Shock Chamber	HITACHI	ES-206EX-R	1	set
	Thermal Shock Chamber	HITACHI	ES-206LHH-R	1	set
	Thermal Shock Chamber	HITACHI	ES-1006LH-R	2	set
	Thermal Shock Chamber	HITACHI	ES-206EX	1	set
	Thermal Shock Chamber	HITACHI	ES-206LHS	1	set
	Basket Type Thermal Shock Chamber	GWINSTEK	GST-030C	1	set
	Cycle Salt Spray Test	ASCOTT	CC450iP	1	set
	Large-Scale Cycle Salt Spray Test	MUNEE	M/SS-2000	1	set

Mechanical Test	Arms type Drop Test System	Guang Jun	GSH-415	1	set
	Drop ball impact test machine	Lixin	LX-5621	1	set

Name: _____

Thermal Shock Chamber
WINTECH Series

Qty: _____

NT1230W	*	2
NT530W	*	3

Applicable standards: _____

* IEC 60068-2-14 Na



Equipment Name		Air-to-Air Thermal Shock Chamber	
Manufacturer		ETAC	
Temperature Switching Method		Hot and cold air switching system by dampers(Stationary specimen method)	
Type of Test		3-zone temperature cycle tests	
Model No.		NT1230W	NT530W
Qty		2	3
Performance			
Temp range for low temp test		-65~0℃	
Temp range for high temp test		+60℃~200℃	
Low temp room	Precooling temp range	-75~-5℃	
High temp room	Preheating temp range	+70℃~225℃	
Body	Room Structure	3 zone system (LT, RT, HT)	
	Test room Internal dimension (W*H*D mm)	650*500*400	370*330*400

Shanghai Minhang Testing Lab

2-Zone Thermal Shock Chamber

Name: _____

2-Zone
Thermal Shock Chamber

Qty: _____

ZTS045L * 1

Applicable standards: _____

* IEC 60068-2-14 Na



Equipment Name		2-Zone Thermal Shock Chamber
Manufacturer		ZUNDAR
Model No.		ZTS045L
Qty		1
Performance		
Temp range for test		-60℃~+180℃
High temp room	Preheating temp range	RT+10℃~+190℃
	Temp ramp-up rate	+25℃~+190℃: within 35min
Low temp room	Precooling temp range	-75~-10℃
	Temp ramp-down rate	+25℃~-75℃: within 60min
Body	Test room Internal dimension (W*H*D mm)	800*800*600
	bracket dimension (W*H*D mm)	600*600*400

3-Zone Thermal Shock ChamberName:Thermal Shock ChamberQty:TS3065W * 2Applicable standards:

* IEC 60068-2-14 Na



Equipment Name		Air-to-Air Thermal Shock Chamber
Manufacturer		Partner
Type of Test		3-zone temperature cycle tests
Model No.		TS3065W
Qty		2
Performance		
Temp range for low temp test		-70~0℃
Temp range for high temp test		RT+20℃~200℃
Body	Room Structure	3 zone system (LT, RT, HT)
	Test room Internal dimension (W*H*D mm)	900 * 580 * 580

Shanghai Minhang Testing Lab

2-Zone Thermal Shock Chamber

Name: _____

Thermal Shock Chamber

Qty: _____

TSV20065W * 1

Applicable standards:

* IEC 60068-2-14 Na



Equipment Name		2-Zone Thermal Shock Chamber
Manufacturer		Partner
Type of Test		2-zone temperature cycle tests
Model No.		TSV20065W
Qty		1
Performance		
Test room	Temp range for low temp test	-70~0℃
	Temp range for high temp test	RT+20℃~200℃
	Temp range for test	-65℃~+150℃
Body	Test room Internal dimension (W*H*D mm)	570*550*650
	Basket internal capacity	200 liters

Shanghai Minhang Testing Lab

Power Temperature Cycle Chamber

Name: _____

Power Temperature Cycle Chamber

Qty: _____

EGNX12-6CA * 2

Applicable standards:

- * IEC 60068-2-1
- * IEC 60068-2-2
- * IEC 60068-2-78
- * IEC 60068-2-30
- * IEC 60068-2-14 Nb
- * Various PTC tests



Equipment Name		Power Temperature Cycle Chamber
Manufacturer		ESPEC NORTH AMERICA
Model No.		EGNX12-6CAL
Qty		2
Performance		
Temperature range		-70℃~+180℃
Temperature Fluctuation		≤±0.5℃
Temperature Gradient		≤±2℃
Humidity Range		10%~95%RH
Humidity Fluctuation		≤3.0%RH
Humidity Gradient		≤5.0%RH
Temperature Rate of Change	Heating	-40℃ ~ +85℃:10℃/min
	Cooling	+85℃ ~ -40℃:10℃/min
Test room Internal dimension (W*H*D mm)		600*850*734

Shanghai Minhang Testing Lab

Power Temperature Cycle Chamber

Name: _____

Power Temperature Cycle Chamber

Qty: _____

ZT050UK * 1

Applicable standards:

- * IEC 60068-2-1
- * IEC 60068-2-2
- * IEC 60068-2-14 Nb
- * Various PTC tests



Equipment Name		Power Temperature Cycle Chamber
Manufacturer		ZUNDAR
Model No.		ZT050UK
Qty		1
Performance		
Temperature range		-60℃~+150℃
Temperature Fluctuation		≤±0.5℃
Temperature Gradient		≤±2℃
Temperature Rate of Change	Heating	-50℃ ~ +120℃: 10℃/min
	Cooling	+120℃ ~ -50℃: 10℃/min
Test room Internal dimension (W*H*D mm)		700*950*750

Shanghai Minhang Testing Lab

Power Temperature Cycle Chamber

Name: _____

Power Temperature Cycle Chamber

Qty: _____

PHR710W-L15 * 3

Applicable standards:

- * IEC 60068-2-1
- * IEC 60068-2-2
- * IEC 60068-2-78
- * IEC 60068-2-30
- * IEC 60068-2-14 Nb
- * Various PTC tests



Equipment Name		Power Temperature Cycle Chamber
Manufacturer		Partner
Model No.		PHR710W-L15
Qty		3
Performance		
Temperature range		-70℃~+150℃
Temperature Fluctuation		≤±1℃
Temperature Gradient		≤±2℃
Humidity Range		10%~98%RH
Humidity Fluctuation		≤3.0%RH
Humidity Gradient		≤5.0%RH
Temperature Rate of Change	Heating	-55℃ ~ +125℃:20℃/min
	Cooling	+125℃ ~ -55℃:20℃/min
Test room Internal dimension (W*H*D mm)		1000*1000*1000

Shanghai Minhang Testing Lab

Low Temperature & Humidity Chamber

Name: _____

Low Temperature & Humidity Chamber

Qty: _____

FX734PH * 1

FX424PH * 2

Applicable standards:

- * IEC 60068-2-1
- * IEC 60068-2-2
- * IEC 60068-2-78
- * IEC 60068-2-30
- * IEC 60068-2-38



Equipment Name	Low Temperature & Humidity Chamber	
Manufacturer	ETAC	
Model No.	FX734PH	FX424PH
Qty	1	2
Temperature range	-70~150℃	-40~150℃
Humidity range	20%~98%RH	
Temperature ramp-up rate	-70->150℃ Within 100min	-40->150℃ Within 60min
Temperature ramp-down rate	20->-70℃ Within 100min	20->-40℃ Within 70min
Temperature & Humidity Fluctuation	±0.5℃/±3%RH	±0.3℃/±2.5%RH
Temperature & Humidity Gradient	±2℃/±5%RH	±0.5℃/±3%RH
Internal dimension (W*H*D)	1000 * 1000 * 800	700 * 950 * 700

Shanghai Minhang Testing Lab

Temperature & Humidity Chamber

Name: _____

Temperature & Humidity Chamber

Qty: _____

TH403A * 1

TH403E * 1

Applicable standards: _____

- * IEC 60068-2-1
- * IEC 60068-2-2
- * IEC 60068-2-78
- * IEC 60068-2-30
- * IEC 60068-2-38



Equipment Name	Temp & Humidity Chamber	
Manufacturer	ETAC	
Model No.	TH403A	TH403E
Qty	1	1
Temp range	-40~150℃	-40~100℃
Humidity range	20%~98%RH	
Temperature ramp-up rate	-40->150℃ Within 60min	-40->150℃ Within 60min
Temperature ramp-down rate	20->-40℃ Within 70min	20->-40℃ Within 60min
Temperature & Humidity Fluctuation	±0.5℃/±2.5%RH	
Temperature & Humidity Gradient	±0.5℃/±3%RH	
Internal dimension (W*H*D)	W*H*D = (500 * 350 * 350 mm)×3	

Shanghai Minhang Testing Lab

Low Temperature & Humidity Chamber

Name: _____

Low Temperature & Humidity Chamber

Qty: _____

ZTH050U * 2

Applicable standards:

- * IEC 60068-2-1
- * IEC 60068-2-2
- * IEC 60068-2-78
- * IEC 60068-2-30
- * IEC 60068-2-38



Equipment Name	Low Temperature & Humidity Chamber
Manufacturer	ZUNDAR
Model No.	ZTH050U
Qty	2
Temperature range	-70~150℃
Humidity range	20%~98%RH
Temperature & Humidity Fluctuation	±0.3℃/±2.5%RH
Temperature & Humidity Gradient	±0.5℃/±3%RH
Internal dimension (W*H*D)	700 * 950 * 750

Bench-Top type Temperature & Humidity Chamber

Name: _____

Bench-Top type Temperature & Humidity Chamber

Qty: _____

SH-241 * 1

Applicable standards:

- * IEC 60068-2-1
- * IEC 60068-2-2
- * IEC 60068-2-78
- * IEC 60068-2-30
- * IEC 60068-2-38



Equipment Name	Bench-Top type Temperature & Humidity Chamber
Manufacturer	ESPEC
Model No.	SH-241
Qty	1
Temp range	-40~150℃
Humidity range	30%~95%RH
Temperature ramp-up rate	-40->150℃ Within 60min
Temperature ramp-down rate	20->-40℃ Within 50min
Temperature & Humidity Gradient	±0.5℃/±3%RH
Internal dimension (W*H*D)	300 * 300 * 250 mm

Shanghai Minhang Testing Lab

Highly Accelerated Stress Test Chamber

Name: _____

Highly Accelerated Stress Test Chamber

Qty: _____

PM420 * 1

Applicable standards: _____

* IEC 60068-2-66



Equipment Name	Highly Accelerated Stress Test Chamber
Manufacturer	ETAC
Model No.	PM420
Qty	1
Pressure range	0.0196 ~ 0.392 Mpa
Temperature range	+105 ~ +162 °C
Humidity range	75%~100%RH
Temperature Gradient	±0.5 °C (100%RH) , ±0.7 °C (75%RH)
Temperature & Humidity Fluctuation	±0.5 °C/±3%RH
Pressure accuracy	±2%FS
Pressurization Time	0 ~ 0.39MPa approx 60min
Internal dimension (W*H*D mm)	270 * 300 * 300
Capacity	24.3L

Shanghai Minhang Testing Lab

High Temperature Test Chamber

Name: _____

High Temperature Test Chamber

Qty: _____

PH101 * 3

Applicable standards: _____

* IEC 60068-2-2



Equipment Name	High Temperature Test Chamber
Manufacturer	ESPEC
Model No.	PH101
Qty	3
Temperature range	RT~200℃
Temperature ramp-up rate	R.T.->200℃
	Within 40min
Temperature Fluctuation	±0.2℃
Internal dimension (W*H*D)	450 * 450 * 450

Shanghai Minhang Testing Lab

High Temperature Test Chamber

Name: _____

High Temperature Test Chamber

Qty: _____

PV-212 * 1

PV-231 * 1

PV-331 * 5

Applicable standards:

* IEC 60068-2-2



Equipment Name	High Temperature Test Chamber		
Manufacturer	ESPEC		
Model No.	PV-212	PV-231	PV-331
Qty	1	1	5
Temperature range	RT~300℃	RT~200℃	
Temperature ramp-up rate	R.T.->300℃	R.T.->200℃	
	Within 40min		
Temperature Fluctuation	±0.2℃		
Temperature Gradient	±1℃/100℃，±2℃/200℃		
Internal dimension（W*H*D）	600 * 600 * 600	600 * 1200 * 600	800 * 1200 * 800

Shanghai Minhang Testing Lab

Temperature & Humidity Chamber

Name: _____

Temperature & Humidity Chamber

Qty: _____

PR-2KP * 1

Applicable standards: _____

- * IEC 60068-2-1
- * IEC 60068-2-2
- * IEC 60068-2-78
- * IEC 60068-2-30
- * IEC 60068-2-38



Equipment Name	Temp & Humidity Chamber
Manufacturer	ESPEC
Model No.	PR-2KP
Qty	1
Temperature range	-20℃~100℃
Humidity range	20%~95%RH
Internal dimension (W*H*D)	500 * 750 * 600

Shanghai Minhang Testing Lab

Temperature Cycling Chamber

Name: _____

Temperature Cycling Chamber

Qty: _____

SET-Z-021UF * 1

Applicable standards:

- * IEC 60068-2-1
- * IEC 60068-2-2
- * IEC 60068-2-14 Nb



Equipment Name	Temperature Cycling Chamber
Manufacturer	ESPEC
Model No.	SET-Z-021UF
Qty	1
Temperature range	-70℃~150℃
Temperature ramp-up rate	-70->150℃ Within 70min
Temperature ramp-down rate	20-> -70℃ Within 80min
Temperature Fluctuation	High Temp ≤±0.5℃ , Low Temp ≤±1℃
Temperature Gradient	≤±2℃
Internal dimension (W*H*D)	500 * 750 * 600

Shanghai Minhang Testing Lab

Temperature Cycling Chamber

Name: _____

Temperature Cycling Chamber

Qty: _____

MC-711P * 1

Applicable standards:

- * IEC 60068-2-1
- * IEC 60068-2-2
- * IEC 60068-2-14 Nb



Equipment Name	Temperature Cycling Chamber
Manufacturer	ESPEC
Model No.	MC-711P
Qty	1
Temperature range	-70℃~100℃
Temperature Fluctuation	High Temp $\leq \pm 0.5^{\circ}\text{C}$, Low Temp $\leq \pm 1^{\circ}\text{C}$
Temperature Gradient	$\leq \pm 2^{\circ}\text{C}$
Internal dimension (W*H*D)	400 * 400 * 400

Shanghai Minhang Testing Lab

Dust Chamber(IEC/ISO Standard)

Name: _____

Dust chamber

Qty: _____

ZSC100B2 * 1

Applicable standards:

- * IEC60529 IP5K/6K
- * ISO20653 IP5K/6K
- * IEC60068-2-68(La)
- * DIN40050-9 IP5K/6K



Equipment Name	Dust Chamber
Manufacturer	ZUNDAR
Model No.	ZSC100B2
Qty	1
Temperature range	RT~+10℃~ +70℃ (Dust dring: +70℃)
Humidity range	45%~75%RH (natural ambient humidity without control)
Dust concentration	3000mg/m ³ (2kg/m ³)
Test wind speed	≤2m/s
Internal dimension (W*H*D)	1000mm×1000mm×1000mm

Shanghai Minhang Testing Lab

Dust Chamber(JIS Standard)

Name: _____

Dust chamber

Qty: _____

DT-1F * 1

Applicable standards:

- * JIS D 0207
- * JIS D 5500
- * SAE J575



Equipment Name	Dust Chamber
Manufacturer	DT-1F
Model No.	ZSC100B2
Qty	1
Dust mode	F1,F2,F3
Dust concentration	60000,3000,100mg/m ³
Dust quantity	10kg/m ³ ,2kg/m ³ ,400g/m ³
Internal dimension (W*H*D)	1200mm×1200mm×1200mm

Name: _____

Water Test Chamber

Qty: _____

ZLY100BF * 1

Applicable standards:

- * IEC60529 IPX1~X4K
- * ISO20653 IPX1~X4K
- * IEC60068-2-18
- * DIN40050-9 IPX1~X4K
- * JIS-0203 R1/R2/S1/S2



Equipment Name	Water Test Chamber		
Manufacturer	ZUNDAR		
Model No.	ZLY100BF		
Qty	1		
Internal dimension	W*H*D = 1000mm×1000mm×1000mm		
Protection grade	IPX1 IPX2	IPX3 IPX4 IPX4K	R1 R2 S1 S2
Spray pressure		80~400Kp (adjustable)	10~300Kp (adjustable)
Spray flow rate	1~3mm/min	2.5~15L/min	1.9~39.2L/min
Swivel tube radius		Φ 400mm	
Nozzle diameter	Φ 0.4mm	Φ 0.4~0.8mm	R1/R2: Φ1.2mm S1/S2: Φ0.5mm*8
Nozzle pitch	20mm	50mm	
Dripping range	600mm*600mm		
Swivel range		±60°/90°/180°	360°
Swivel speed		approx 60°/s	23r/min
Turntable diameter	Φ 400mm	Φ 400mm	Φ 400mm
Turntable rotational speed	1r/min	5r~20r/min	5r~20r/min
Turntable load capacity	≤15KG	≤15KG	≤15KG
Turntable tilting angle	0~15°		

Name: _____

Water Test Chamber

Qty: _____

AZRA2250-B5 * 1Applicable standards:

- * IEC60529 IP9K
- * GB/T 2423.38
- * DIN40050 IP9K



Equipment Name	Water Test Chamber
Manufacturer	ZUNDAR
Model No.	AZRA2250-B5
Qty	1
Internal dimension	W*H*D = 1500mm×1500mm×1000mm
Protection grade	IP9K
Spray pressure	8000Kpa~10000Kpa(adjustable)
Spray flow rate	14L/min~16L/min
Nozzle diameter	Reference IP9K Standard
Nozzle number	4个(0°, 30°, 60°, 90°)
Spray distance	100mm~150mm, adjustable
Test platform height	manually adjustable distance 180mm
Turntable diameter	Φ 500mm
Turntable rotational speed	4~17rpm
Turntable load capacity	≤15KG

Shanghai Minhang Testing Lab

Temperature & Humidity Air pressure Chamber

Name: Temperature & Humidity Air pressure Chamber

Qty: ZTHVA010R * 1

Applicable standards:

- * IEC 60068-2-13
- * IEC 60068-2-40
- * IEC 60068-2-41
- * IEC 60068-2-39
- * GB/T 2423.21
- * GB/T 2423.25
- * GB/T 2423.26
- * GB/T 2423.27



Equipment Name		Temperature & Humidity & Low Air pressure Chamber
Manufacturer		ZUNDAR
Model No.		ZTHVA010R
Qty		1
Performance		
Temperature range		-20℃~+120℃
Humidity range		+15~+85℃, +25~+98%RH
Temperature Gradient		≤±2℃
Temperature Fluctuation		≤±0.5℃
Temp & Humid Fluctuation		≤±2.0℃/+2, -3%RH
Temperature Rate of Change	Heating	-25℃ ~ +120℃: Within 45min
	Cooling	25℃ ~ -20℃: Within 40min
Low air pressure range		50KPa (0.6kg/cm ²): same as 5000M
Time of reduce pressure		101kpa~50KPa: ≤7min
Time of increase pressure		50kpa~101KPa: ≤10min
Test room Internal dimension (W*H*D mm)		450mm×450mm×550mm

Shanghai Minhang Testing Lab

Vibration Test System

Name: Vibration Test System

Qty: F-3K/30FA * 1

Applicable standards:

- * IEC 60068-2-6
- * IEC 60068-2-64



Equipment Name		Vibration Test System					
Manufacturer		EMIC					
Model No.		F-3K/30FA					
Dimension		Maxium 400mm * 400mm					
Qty		1					
Spec							
Maximum Exciting Force		Frequency range	Maximum acceleration speed	Maximum displacement	Maximum velocity	Mass of moving coil	Maximum payload
Sine	Random	5~2kHz	68G	30mm	1.6m/s	4.5kg	200kg
3K N0-P	3K N _{rms}						

Shanghai Minhang Testing Lab

Vibration Test System

Name: Vibration Test System

F-33000BD/LA36AP

Qty: * 1

Applicable standards:

- * IEC 60068-2-6
- * IEC 60068-2-27
- * IEC 60068-2-29
- * IEC 60068-2-50
- * IEC 60068-2-51
- * IEC 60068-2-64



Equipment Name			Vibration Test System						
Manufacturer			EMIC						
Model No.			F-33000BD/LA36AP						
Dimension			Maxium 1000mm * 1000mm						
Qty			1						
Spec									
Maximum Exciting Force			Frequency range	Maximum acceleration speed	Maximum displacement	Maximum velocity	Mass of moving coil	Maximum payload	
Sine	Random	Shock	5~2.2kHz	102G	60mm	1.25m/s	33kg	400kg	
33K No-P	26.4K Nrms	82.5K No-P							

Shanghai Minhang Testing Lab

Vibration Test System

Name: Vibration Test System

Qty: DC-5000-50 * 2



Applicable standards:

- | | |
|------------------|------------------|
| * IEC 60068-2-6 | * IEC 60068-2-50 |
| * IEC 60068-2-27 | * IEC 60068-2-51 |
| * IEC 60068-2-29 | * IEC 60068-2-64 |

Equipment Name			Vibration Test System						
Manufacturer			STI						
Model No.			DC-5000-50						
Dimension			Maxium 600mm * 600mm						
Qty			2						
Spec									
Maximum Exciting Force			Frequency range	Maximum acceleration speed	Maximum displacement	Maximum velocity	Mass of moving coil	Maximum payload	
Sine	Random	Shock	1~2500Hz	100G	60mm	2m/s	50kg	1000kg	
49K No-P	49K Nrms	49K No-P							

Shanghai Minhang Testing Lab

Vibration Test System

Name: Vibration Test System

Qty: DC-6000-60 * 1



Applicable standards:

- | | |
|------------------|------------------|
| * IEC 60068-2-6 | * IEC 60068-2-50 |
| * IEC 60068-2-27 | * IEC 60068-2-51 |
| * IEC 60068-2-29 | * IEC 60068-2-64 |

Equipment Name			Vibration Test System						
Manufacturer			STI						
Model No.			DC-6000-60						
Dimension			Maxium 800mm * 800mm						
Qty			1						
Spec									
Maximum Exciting Force			Frequency range	Maximum acceleration speed	Maximum displacement	Maximum velocity	Mass of moving coil	Maximum payload	
Sine	Random	Shock	2~2500Hz	100G	76mm	2m/s	58kg	500kg	
58.8K N0-P	58.8K Nrms	58.8K N0-P							

Shanghai Minhang Testing Lab

Vibration Test System

Name: Vibration Test System

Qty: DC-12000-120 * 1



Applicable standards:

- | | |
|------------------|------------------|
| * IEC 60068-2-6 | * IEC 60068-2-50 |
| * IEC 60068-2-27 | * IEC 60068-2-51 |
| * IEC 60068-2-29 | * IEC 60068-2-64 |

Equipment Name			Vibration Test System						
Manufacturer			STI						
Model No.			DC-12000-120						
Dimension			Maxium 1500mm * 1500mm						
Qty			1						
Spec									
Maximum Exciting Force			Frequency range	Maximum acceleration speed	Maximum displacement	Maximum velocity	Mass of moving coil	Maximum payload	
Sine	Random	Shock	1~2500Hz	100G	76mm	2m/s	100kg	2000kg	
117.6K N0-P	117.6K Nrms	117.6K N0-P							

Name: 3T Combined Environment Relibility Test System

Qty: F-33000BD * 1

Applicable standards:

- * IEC 60068-2-6
- * IEC 60068-2-27
- * IEC 60068-2-29
- * IEC 60068-2-50
- * IEC 60068-2-51
- * IEC 60068-2-64



Equipment Name			Combined Environment Relibility Test System					
Manufacturer			EMIC / ZUNDAR					
Model No.			F-33000BD/LA36AP + ZTH050LF					
Qty			1					
Vibration Testing System Spec								
Maximum Exciting Force			Frequency range	Maximum acceleration speed	Maximum displacement	Maximum velocity	Mass of moving coil	Maximum payload
Sine	Random	Shock	5~2.2kHz	102G	60mm	1.25m/s	33kg	400kg
33K No-P	26.4K Nrms	82.5K No-P						
Chamber Spec								
Test system dimension			500mm×500mm					
Internal dimension			W*H*D = 800mm×800mm×800mm					
Temperature range			-60~130℃					
Humidity range			20%~98%RH					
Temperature rate			2℃/min(-40℃~110℃)					

Name: 5T Combined Environment Relibility Test System

Qty: DC-5000-50 * 2

Applicable standards:

- * IEC 60068-2-6
- * IEC 60068-2-27
- * IEC 60068-2-29
- * IEC 60068-2-50
- * IEC 60068-2-51
- * IEC 60068-2-64



Equipment Name			Combined Environment Relibility Test System					
Manufacturer			STI + ZUNDAR					
Model No.			DC-5000-50 + ZTH100UF			DC-5000-50 + AZVIBTH1800U		
Qty			2					
Vibration Testing System Spec								
Maximum Exciting Force			Frequency range	Maximum acceleration speed	Maximum displacement	Maximum velocity	Mass of moving coil	Maximum payload
Sine	Random	Shock	1~2.5KHz	100G	60mm	2m/s	50kg	1000kg
49K N _{0-P}	49K Nrms	49K N _{0-P}						
Chamber Spec			ZTH100UF			AZVIBTH1800U		
Test system dimension			600*600			600*600		
Internal dimension			1000*1000*1000			1100*1000*1200		
Temperature range			-70℃~150℃			-70℃~180℃		
Humidity range			20%~98%			20%~98%		

Name: 6T Combined Environment Relibility Test System

Qty: DC-6000-60 * 1

Applicable standards:

- * IEC 60068-2-6
- * IEC 60068-2-27
- * IEC 60068-2-29
- * IEC 60068-2-50
- * IEC 60068-2-51
- * IEC 60068-2-64



Equipment Name			Combined Environment Relibility Test System					
Manufacturer			STI + ZUNDAR					
Model No.			DC-6000-60 + AZVIBTH1800U					
Qty			1					
Vibration Testing System Spec								
Maximum Exciting Force			Frequency range	Maximum acceleration speed	Maximum displacement	Maximum velocity	Mass of moving coil	Maximum payload
Sine	Random	Shock	2~2500Hz	100G	76mm	2m/s	58kg	500kg
58.8K N _{0-P}	58.8K Nrms	58.8K N _{0-P}						
Chamber Spec								
Test system dimension			800mm×800mm					
Internal dimension			W*H*D = 1300mm×1000mm×1400mm					
Temperature range			-70~180℃					
Humidity range			20%~98%RH					

12T Combined Environment Reliability Test System

Name: 12T Combined Environment Reliability Test System

Qty: DC-12000-120 * 1

Applicable standards:

- * IEC 60068-2-6
- * IEC 60068-2-27
- * IEC 60068-2-29
- * IEC 60068-2-50
- * IEC 60068-2-51
- * IEC 60068-2-64



Equipment Name			Combined Environment Relibility Test System					
Manufacturer			STI DC-12000 + ZUNDAR ZTH640UF					
Model No.			DC-12000-120					
Qty			1					
Vibration Testing System Spec								
Maximum Exciting Force			Frequency range	Maximum acceleration speed	Maximum displacement	Maximum velocity	Mass of moving coil	Maximum payload
Sine	Random	Shock	1~2500Hz	100G	76mm	2m/s	100kg	2000kg
117.6K N _{0-P}	117.6K Nrms	117.6K N _{0-P}						
Chamber Spec								
Test system dimension			1500mm×1500mm					
Internal dimension			W*H*D = 2000mm×1600mm×2000mm					
Temperature range			-70~150℃					
Humidity range			20%~98%RH					

Shanghai Minhang Testing Lab

Mechanical Shock Test System

Name: Mechanical Shock Test System

Qty: CL-300 * 1

Applicable standards:

* IEC 60068-2-27



Equipment Name		Mechanical Shock Test System					
Manufacturer		STI					
Model No.		CL-300					
Qty		1					
Shock Test System Spec							
Maximum payload	Pulse duration	Acceleration range (m/s^2)			Table Size (mm)	Frequency range	Measurement precision
		Half sine	Post peak sawtooth	Trapezoidal			
300 Kg	50-1ms	150-6000	150-500	150-500	1000 * 800	DC~2200Hz	0.1dB

Drop Test System

Name: Drop Test System

Qty: DLJ-100 * 1

Applicable standards:

- * GB/T 2423.8
- * IEC 60068-2-32



Equipment Name		Drop Test System		
Manufacturer		STI		
Model No.		DLJ-100		
Qty		1		
Drop Test System Spec				
Maximum payload	Drop height	Max size of sample package	Drop method	Drop dimension
100 Kg	350 ~ 1500 mm	800 * 600 * 600 mm	Free drop	1800 * 1200 mm

Shanghai Minhang Testing Lab

Combined Cyclic Corrosion Test Instrument

Name: Combined Cyclic Corrosion Test Instrument

Qty: CCT-1L * 1

Applicable standards:

- * IEC 68 -2 -11
- * IEC 68 -2 -52:1996
- * JASO / M609 · M610 / ISO



Equipment Name	Combined Cyclic Corrosion Test Instrument
Manufacturer	SUGA
Model No.	CCT-1L
Qty	1
Performance	
Salt Spray	35~50℃±1℃
Dry	20℃ ~ 70℃±1℃, 25%RH±5%
Wet	50~70℃±1℃ 60~95%RH±5%
Salt Immersion	(Ambient Temp + 10℃) ~60℃±1℃ (Solution Temp)
No-controlled air introduced from outside	The air as it is (Without temperature & Humidity control)
Low Temperature	-20℃ ~ 20℃
Quantity of specimen(150*70mm)	96 pieces (To be held at the angle of 15 degrees or 20 degrees to the perpendicular)
Internal dimension (W*H*D mm)	960*860*610

Shanghai Minhang Testing Lab

Combined Cyclic Corrosion Test Instrument

Name: Combined Cyclic Corrosion Test Instrument

Qty: CYP-90 * 3

Applicable standards:

- * IEC 68 -2 -11
- * IEC 68 -2 -52:1996
- * JASO / M609 · M610 / ISO



Equipment Name	Combined Cyclic Corrosion Test Instrument
Manufacturer	SUGA
Model No.	CYP-90
Qty	3
Performance	
Salt Spray	35~50℃±1℃
Dry	20℃ ~ 70℃±1℃, 25%RH±5%
Wet	50~70℃±1℃ 60~95%RH±5%
No-controlled air introduced from outside	The air as it is (Without temperature & Humidity control)
Quantity of specimen (150*70mm)	48 pieces (To be held at the angle of 15 degrees or 20 degrees to the perpendicular)
Internal dimension (W*H*D mm)	900*500*600

Shanghai Minhang Testing Lab

Combined Cyclic Corrosion Test Instrument

Name: Combined Cyclic Corrosion Test Instrument

Qty: CYP-230Z * 1

Applicable standards:

- * IEC 68 -2 -11
- * IEC 68 -2 -52:1996
- * JASO / M609 · M610 / ISO



Equipment Name	Combined Cyclic Corrosion Test Instrument
Manufacturer	SUGA
Model No.	CYP-230Z
Qty	1
Performance	
Salt Spray	35~50℃±1℃
Dry	(RT+10℃) ~70℃±1℃
Wet	(RT+10℃) ~50℃ 60~95%RH±5%
No-controlled air introduced from outside	The air as it is (Without temperature & Humidity control)
Quantity of specimen (150*70mm)	240 pieces (To be held at the angle of 15 degrees or 20 degrees to the perpendicular)
Internal dimension (W*H*D mm)	2300*1000*500

Shanghai Minhang Testing Lab

Xenon Weather Meter

Name: Xenon Weather Meter

Qty: GX-75 * 1

Applicable standards:

- * GB/T 1865 / ISO 11341
- * ISO 4892-2
- * SAE J2527
- * ASTM G155



Equipment Name	Xenon Weather Meter		
Manufacturer	SUGA		
Model No.	GX-75		
Qty	1		
Performance			
Light Source	7.5kW Water-cooled Xenon Lamp		
Filter	Daylight filter & Windows glass filter		
Test Condition	Light-on, Light-on and surface spray, Lifht-off, Light-off and back spray, Light-off and surface and back spray		
Irradirance	40~120W/m^2 （300~400nm）		
Temperature and Humidity Range	Light-on	BPT:	63~110℃±2℃
		Humidity	50±5%RH
	Light-off	CAT	38℃±2℃
		Humidity	95±5%RH
Number of Specimen	Maxium 54 pieces (150*70*1mm)		

Shanghai Minhang Testing Lab

Flowing Mixed Gas Gorrosion Test

Name: Flowing Mixed Gas Gorrosion Test

Qty: GT-100 * 1

Applicable standards:

- * GB/T 2423.51
- * IEC 60068-2-60
- * ISO 10062
- * JIS H 8502
- * EIA-364-65A



Equipment Name	Flowing Mixed Gas Gorrosion Test Instrument		
Manufacturer	SUGA		
Model No.	GT-100		
Qty	1		
Performance			
Gas	SO ₂ ,H ₂ S,NO ₂ ,Cl ₂		
Gas Concentration	SO2： 0.1～200ppm		
	H2S： 0.01～200ppm		
	NO2： 0.1～20ppm		
	Cl2： 0.01～20ppm		
Temperature and Humidity Range	Temperature	20～65℃	
	Humidity	20℃	65～95%RH
		65℃	30～95%RH
Internal dimension（W*H*D mm）	500*400*500		

Shanghai Minhang Testing Lab

Universal Testing Instrument

Name: Universal Testing Instrument

Qty: AGS-X 1kN * 1

Applicable standards:

* JIS/ISO/ASTM



Equipment Name	Universal Testing Instrument
Manufacturer	SHIMADZU
Model No.	AGS-X 1kN
Qty	1
Performance	
Load capacity	1KN
Testing speed	0.0001~1000mm/min
Speed precision	±0.1%
Return speed	1500 mm/min
Position detect resolution	0.033μm
Position control precision	±0.1%
Data sampling interval	1ms

Name: Digital Force Gauges

Qty: FGP-50 * 1

Applicable standards:

* JIS/ISO/ASTM



Equipment Name	Digital Force Gauges
Manufacturer	NIDEC-SHIMPO
Model No.	FGP-50
Qty	1
Performance	
Load capacity	500N
Resolution	0.1N
Measurement modes	Standard, Compression Peak, Tension Peak
Display rate	1/2/3/5/10/20 times per second
Sampling rate	1000 times per second
Overload	200% of full scale

Shanghai Pudong Testing Lab

2-Zone Thermal Shock Chamber

Name: _____

Thermal Shock Chamber

Qty: _____

AZT300U-2T-SP * 1

Applicable standards: _____

* IEC 60068-2-14 Na



Equipment Name		2-Zone Thermal Shock Chamber
Manufacturer		ZUNDAR
Type of Test		2-zone temperature cycle tests
Model No.		AZT300U-2T-SP
Qty		1
Performance		
Test room	Temp range for low temp test	-70~-10℃
	Temp range for high temp test	RT+20℃~180℃
	Temp range for test	-70℃~+180℃
	Basket transfer time	<10s
Body	Test room Internal dimension (W*H*D mm)	700*600*700
	Basket internal capacity	300 liters
	Maximum basket load	35kg

Shanghai Pudong Testing Lab

2-Zone Thermal Shock Chamber

Name: _____

2-Zone
Thermal Shock Chamber

Qty: _____

AZTS500U-2T * 2

Applicable standards: _____

* IEC 60068-2-14 Na



Equipment Name		2-Zone Thermal Shock Chamber	
Manufacturer		ZUNDAR	
Type of Test		2-zone temperature cycle tests	
Model No.		AZTS500U-2T	AZTS500U-2T-SP
Qty		1	1
Performance			
Test room	Temp range for low temp test	-70~-10℃	
	Temp range for high temp test	RT+20℃~180℃	
	Temp range for test	-70℃~+180℃	
	Basket transfer time	<10s	
Body	Test room Internal dimension (W*H*D mm)	900*700*800	750*900*750
	Basket internal capacity	500 liters	
	Maximum basket load	80kg	

Shanghai Pudong Testing Lab

2-Zone Thermal Shock Chamber

Name: _____

2-Zone
Thermal Shock Chamber

Qty: _____

AZTS1000U-2T * 2

Applicable standards: _____

* IEC 60068-2-14 Na



Equipment Name		2-Zone Thermal Shock Chamber	
Manufacturer		ZUNDAR	
Type of Test		2-zone temperature cycle tests	
Model No.		AZTS1000U-2T	AZTS1000U-2T-SP
Qty		1	1
Performance			
Test room	Temp range for low temp test	-70~-10℃	
	Temp range for high temp test	RT+20℃~180℃	
	Temp range for test	-70℃~+180℃	
	Basket transfer time	<10s	
Body	Test room Internal dimension (W*H*D mm)	1100*800*1100	1000*1200*800
	Basket internal capacity	960 liters	
	Maximum basket load	80kg	

Shanghai Pudong Testing Lab

Power Temperature Cycle Chamber

Name: _____

Power Temperature Cycle Chamber

Qty: _____

EXTH1000U-15-ESS-SF * 2

Applicable standards: _____

- * IEC 60068-2-1
- * IEC 60068-2-2
- * IEC 60068-2-14 Nb
- * Various PTC tests



Equipment Name		Power Temperature Cycle Chamber
Manufacturer		ZUNDAR
Model No.		EXTH1000U-15-ESS-SP
Qty		2
Performance		
Temperature range		-70℃~+150℃
Humidity Range		10%~98%RH
Temperature Fluctuation		≤±0.5℃
Temperature Gradient		≤±2℃
Humidity Fluctuation		≤3.0%RH
Humidity Gradient		≤5.0%RH
Temperature Rate of Change	Heating	-55℃ ~ +125℃:15℃/min
	Cooling	+125℃ ~ -55℃:15℃/min
Test room Internal dimension (W*H*D mm)		1000*1000*1000

Shanghai Pudong Testing Lab

Power Temperature Cycle Chamber

Name: _____

Power Temperature Cycle Chamber

Qty: _____

EXTH2000U-15-ESS * 4

Applicable standards: _____

- * IEC 60068-2-1
- * IEC 60068-2-2
- * IEC 60068-2-14 Nb
- * Various PTC tests



Equipment Name		Power Temperature Cycle Chamber
Manufacturer		ZUNDAR
Model No.		EXTH2000U-15-ESS
Qty		4
Performance		
Temperature range		-70℃~+180℃
Humidity Range		10%~98%RH
Temperature Fluctuation		≤±0.5℃
Temperature Gradient		≤±2℃
Humidity Fluctuation		≤3.0%RH
Humidity Gradient		≤5.0%RH
Temperature Rate of Change	Heating	-55℃ ~ +125℃:15℃/min
	Cooling	+125℃ ~ -55℃:15℃/min
Test room Internal dimension (W*H*D mm)		1200*1300*1300

Shanghai Pudong Testing Lab

Low Temperature & Humidity Chamber

Name: _____

Low Temperature & Humidity Chamber

Qty: _____

EEXTH600U * 1

Applicable standards:

- * IEC 60068-2-1
- * IEC 60068-2-2
- * IEC 60068-2-78
- * IEC 60068-2-30
- * IEC 60068-2-38



Equipment Name	Low Temperature & Humidity Chamber
Manufacturer	ZUNDAR
Model No.	EEXTH600U
Qty	1
Temperature range	-70~150℃
Humidity range	10%~98%RH
Temperature & Humidity Fluctuation	±0.5℃/±3%RH
Temperature & Humidity Gradient	±2℃/±5%RH
Internal dimension (W*H*D)	850 * 900 * 750

Shanghai Pudong Testing Lab

Low Temperature & Humidity Chamber

Name: _____

Low Temperature & Humidity Chamber

Qty: _____

EEXTH1500U * 4

Applicable standards:

- * IEC 60068-2-1
- * IEC 60068-2-2
- * IEC 60068-2-78
- * IEC 60068-2-30
- * IEC 60068-2-38



Equipment Name	Low Temperature & Humidity Chamber
Manufacturer	ZUNDAR
Model No.	EEXTH1500U
Qty	4
Temperature range	-70~180℃
Humidity range	10%~98%RH
Temperature & Humidity Fluctuation	±0.5℃/±3%RH
Temperature & Humidity Gradient	±2℃/±5%RH
Internal dimension (W*H*D)	1300 * 1100 * 1300

Shanghai Pudong Testing Lab

Low Temperature & Humidity Chamber

Name: _____

Low Temperature & Humidity Chamber

Qty: _____

ZTH020L * 1

Applicable standards:

- * IEC 60068-2-1
- * IEC 60068-2-2
- * IEC 60068-2-78
- * IEC 60068-2-30
- * IEC 60068-2-38



Equipment Name	Low Temperature & Humidity Chamber
Manufacturer	ZUNDAR
Model No.	ZTH020L
Qty	1
Temperature range	-40~150℃
Humidity range	20%~98%RH
Temperature & Humidity Fluctuation	±0.5℃/±3%RH
Temperature & Humidity Gradient	±2℃/±5%RH
Internal dimension (W*H*D)	600 * 700 * 600

Shanghai Pudong Testing Lab

Dewing Test Chamber

Name: _____

Dewing Test Chamber

Qty: _____

EXTH1000U-SP * 1

Applicable standards:

- * IEC 60068-2-1
- * IEC 60068-2-2
- * IEC 60068-2-78
- * IEC 60068-2-30
- * IEC 60068-2-38



Equipment Name	Dewing Chamber
Manufacturer	ZUNDAR
Model No.	EXTH1000U-SP
Qty	1
Temperature range	-70℃~130℃
Humidity range	10%~98%RH
Dewing Point Range	+3.5℃~+83℃
Wather Bath Temperature range	+10℃~+80℃
Wather Bath Temperature Rate of Change	0.5℃/min (+10℃~+80℃)
Internal dimension (W*H*D)	1000 * 920 * 1000

Shanghai Pudong Testing Lab

Temperature and Humidity Test Chamber

(Walking Chamber)

Name: _____

Temperature and Humidity Test Chamber
(Walking Chamber)

Qty: _____

AZTH8U * 1

Applicable standards: _____

- * IEC 60068-2-1
- * IEC 60068-2-2
- * IEC 60068-2-14 Nb



Equipment Name	Temperature and Humidity Test Chamber (Walking Chamber)
Manufacturer	ZUNDAR
Model No.	AZTH8U
Qty	1
Temperature range	-60℃~150℃
Humidity range	20%~98%RH
Internal dimension (W*H*D)	2000 * 2000 * 2000

Shanghai Pudong Testing Lab

Temperature and Humidity Test Chamber (Walking Chamber)

Name: _____

Temperature and Humidity Test Chamber
(Walking Chamber)

Qty: _____

AZTH12U * 1

Applicable standards: _____

- * IEC 60068-2-1
- * IEC 60068-2-2
- * IEC 60068-2-14 Nb



Equipment Name	Temperature and Humidity Test Chamber (Walking Chamber)
Manufacturer	ZUNDAR
Model No.	AZTH12U
Qty	1
Temperature range	-60℃~150℃
Humidity range	15%~98%RH
Internal dimension (W*H*D)	2000 * 2000 * 3000

Shanghai Pudong Testing Lab

Ice Water Impact Splash Water Test Chamber

Name:

Ice Water Impact Splash Water Test Chamber

Qty:

AZRA1000-SP * 1

Applicable standards:

* ISO16750-2



Equipment Name	Ice Water Impact Splash Water Test Chamber
Manufacturer	ZUNDAR
Model No.	AZRA 1000-SP
Qty:	1
Temperature range:	0°C ~ 140°C
Heating rate:	2°C/min
Cooling rate:	1°C/min
Water temperature range:	0°C ~ 4°C
Splash flow:	3~4L
Splash time:	3s
Internal dimension (W*H*D mm)	1000*1000*1000

Shanghai Pudong Testing Lab

Gravel Multi-Function Impact Testing Machine

Name: _____

Gravel Multi-Function Impact Testing Machine

Qty: _____

MTG * 1

Applicable standards:

- * SAE
- * ASTM
- * VDA
- * JIS



Equipment Name	Gravel Multi-Function Impact Testing Machine
Manufacturer	Q-lab
Qty:	1
Inner diameter of the compressed air pipe	SAE:3/4 inch; VDA:1/2 inch
Sound pressure level	130dBA
Air tank volume	30gallon
Gun barrel inner diameter	SAE J400: 52.6mm; VDA: 30mm
Test distance	SAE J400: 349.25mm; VDA: 290mm
Sample holder effective area	92mm*143mm
Test sample mounting angle	SAE J400: 45°or 90°; VDA: 54°or 90°
Internal dimension (W*H*D mm)	1000mm×1000mm×1000mm

Shanghai Pudong Testing Lab

Vibration Test System

Name: Vibration Test System

Qty: DC-5000-50 * 1



Applicable standards:

- | | |
|------------------|------------------|
| * IEC 60068-2-6 | * IEC 60068-2-50 |
| * IEC 60068-2-27 | * IEC 60068-2-51 |
| * IEC 60068-2-29 | * IEC 60068-2-64 |

Equipment Name			Vibration Test System					
Manufacturer			STI					
Model No.			DC-5000-50					
Dimension			Maxium 600mm * 600mm					
Qty			1					
Spec								
Maximum Exciting Force			Frequency range	Maximum acceleration speed	Maximum displacement	Maximum velocity	Mass of moving coil	Maximum payload
Sine	Random	Shock	1~2500Hz	100G	60mm	2m/s	50kg	1000kg
49K N0-P	49K Nrms	49K N0-P						

Shanghai Pudong Testing Lab

Vibration Test System

Name: Vibration Test System

Qty: DC-6000-60 * 2



Applicable standards:

- | | |
|------------------|------------------|
| * IEC 60068-2-6 | * IEC 60068-2-50 |
| * IEC 60068-2-27 | * IEC 60068-2-51 |
| * IEC 60068-2-29 | * IEC 60068-2-64 |

Equipment Name			Vibration Test System						
Manufacturer			STI						
Model No.			DC-6000-60						
Dimension			(1)Max: 600mm * 600mm; (2)Max:1200mm * 1200mm						
Qty			2						
Spec									
Maximum Exciting Force			Frequency range	Maximum acceleration speed	Maximum displacement	Maximum velocity	Mass of moving coil	Maximum payload	
Sine	Random	Shock	2~2500Hz	100G	76mm	2m/s	58kg	500kg	
58.8K N0-P	58.8K Nrms	58.8K N0-P							

Shanghai Pudong Testing Lab

Vibration Test System

Name: Vibration Test System

Qty: DC-8000-80 * 1



Applicable standards:

- | | |
|------------------|------------------|
| * IEC 60068-2-6 | * IEC 60068-2-50 |
| * IEC 60068-2-27 | * IEC 60068-2-51 |
| * IEC 60068-2-29 | * IEC 60068-2-64 |

Equipment Name			Vibration Test System						
Manufacturer			STI						
Model No.			DC-8000-80						
Dimension			Maxium 1000mm * 1000mm						
Qty			1						
Spec									
Maximum Exciting Force			Frequency range	Maximum acceleration speed	Maximum displacement	Maximum velocity	Mass of moving coil	Maximum payload	
Sine	Random	Shock	2~2600Hz	100G	51mm	2m/s	80kg	500kg	
78.4K N0-P	78.4K Nrms	78.4K N0-P							

Shanghai Pudong Testing Lab

Vibration Test System

Name: Vibration Test System

Qty: DC-12000-120 * 1



Applicable standards:

- | | |
|------------------|------------------|
| * IEC 60068-2-6 | * IEC 60068-2-50 |
| * IEC 60068-2-27 | * IEC 60068-2-51 |
| * IEC 60068-2-29 | * IEC 60068-2-64 |

Equipment Name			Vibration Test System						
Manufacturer			STI						
Model No.			DC-12000-120						
Dimension			Maxium 800mm * 800mm						
Qty			1						
Spec									
Maximum Exciting Force			Frequency range	Maximum acceleration speed	Maximum displacement	Maximum velocity	Mass of moving coil	Maximum payload	
Sine	Random	Shock	2~2600Hz	100G	76mm	2m/s	100kg	1500kg	
117.6K N0-P	117.6K Nrms	117.6K N0-P							

Name: 5T Combined Environment Relibility Test System

Qty: DC-5000-50 * 1

Applicable standards:

- * IEC 60068-2-6
- * IEC 60068-2-27
- * IEC 60068-2-29
- * IEC 60068-2-50
- * IEC 60068-2-51
- * IEC 60068-2-64



Equipment Name			Combined Environment Relibility Test System					
Manufacturer			STI + ZUNDAR					
Model No.			DC-5000-50 + AZVIBTH1320L00UF					
Qty			1					
Vibration Testing System Spec								
Maximum Exciting Force			Frequency range	Maximum acceleration speed	Maximum displacement	Maximum velocity	Mass of moving coil	Maximum payload
Sine	Random	Shock	1~2.5KHz	100G	60mm	2m/s	50kg	1000kg
49K N0-P	49K Nrms	49K N0-P						
Chamber Spec			AZVIBTH1320L					
Test system dimension			600*600					
Internal dimension			1100*1000*1200					
Temperature range			-70℃~150℃					
Humidity range			20%~98%					

Name: 6T Combined Environment Reliability Test System

Qty: DC-6000-60 * 2

Applicable standards:

- * IEC 60068-2-6
- * IEC 60068-2-27
- * IEC 60068-2-29
- * IEC 60068-2-50
- * IEC 60068-2-51
- * IEC 60068-2-64



Equipment Name			Combined Environment Relibility Test System					
Manufacturer			STI + ZUNDAR					
Model No.			DC-6000-60 + AZVIBTH1320U			DC-6000-60 + AZVIBTH5200U		
Qty			2					
Vibration Testing System Spec								
Maximum Exciting Force			Frequency range	Maximum acceleration speed	Maximum displacement	Maximum velocity	Mass of moving coil	Maximum payload
Sine	Random	Shock	2~2500Hz	100G	76mm	2m/s	58kg	500kg
58.8K N _{0-P}	58.8K Nrms	58.8K N _{0-P}						
Chamber Spec								
Test system dimension			800mm×800mm			800mm×800mm		
Internal dimension			1100*1000*1200			1800*1700*1700		
Temperature range			-70℃~180℃			-70℃~180℃		
Humidity range			20%~98%RH			20%~98%RH		

Name: 8T Combined Environment Reliability Test System

Qty: DC-8000-80 * 1

Applicable standards:

- * IEC 60068-2-6
- * IEC 60068-2-27
- * IEC 60068-2-29
- * IEC 60068-2-50
- * IEC 60068-2-51
- * IEC 60068-2-64



Equipment Name			Combined Environment Relibility Test System					
Manufacturer			STI + ZUNDAR					
Model No.			DC-8000-80 + AZVIBTH2250U					
Qty			1					
Vibration Testing System Spec								
Maximum Exciting Force			Frequency range	Maximum acceleration speed	Maximum displacement	Maximum velocity	Mass of moving coil	Maximum payload
Sine	Random	Shock	2~2600Hz	100G	51mm	2m/s	80kg	500kg
78.4K N0-P	78.4K Nrms	78.4K N0-P						
Chamber Spec								
Test system dimension			1000mm×1000mm					
Internal dimension			1500*1000*1500					
Temperature range			-70~150℃					
Humidity range			20%~98%RH					

12T Combined Environment Reliability Test System

Name: 12T Combined Environment Reliability Test System

Qty: DC-12000-120 * 1

Applicable standards:

- * IEC 60068-2-6
- * IEC 60068-2-27
- * IEC 60068-2-29
- * IEC 60068-2-50
- * IEC 60068-2-51
- * IEC 60068-2-64



Equipment Name			Combined Environment Relibility Test System					
Manufacturer			STI + ZUNDAR					
Model No.			DC-12000-120 + AZVIBTH1800U					
Qty			1					
Vibration Testing System Spec								
Maximum Exciting Force			Frequency range	Maximum acceleration speed	Maximum displacement	Maximum velocity	Mass of moving coil	Maximum payload
Sine	Random	Shock	2~2600Hz	100G	76mm	2m/s	100kg	1500kg
117.6K N0-P	117.6K Nrms	117.6K N0-P						
Chamber Spec								
Test system dimension			800mm×800mm					
Internal dimension			1300*1000*1400					
Temperature range			-70~180℃					
Humidity range			20%~98%RH					

Shanghai Minhang Testing Lab

Electrostatic Discharge Simulator

Name: Electrostatic Discharge Simulator

Qty: ESS-S3011 / GT-30R * 1

Applicable standards:

- * GB 17626.2
- * GB/T 19951
- * ISO10605
- * IEC 61000-4-2



Equipment Name	Electrostatic Discharge Simulator
Manufacturer	Noiseken
Model No.	ESS-S3011 / GT-30R
Qty	1
Performance	
Output Polarity	Positive / Negative
Output Voltage	200V~30kV
Discharge Time	1~60,000 times
Exert Mode	Contact discharge / Air discharge
Radiation Level Mode	NORMAL / EXTRA
Trigger Mode	Gun Trigger / Body Trigger / Remote Trigger / Exterior Trigger

AC/DC Withstand voltage & Insulation Resistance Test System

Name: AC/DC Withstand voltage & Insulation Resistance Test System

Qty: TOS9201 * 1

Applicable standards:
* ISO16750-2



Equipment Name	AC/DC Withstand voltage & Insulation Resistance Test System
Manufacturer	KIKUSUI
Model No.	TOS9201
Qty	1
Performance	
Withstand voltage test	AC 0.05kV~5.00kV
	DC 0.05kV~6.00kV
Maximum Rating Current	100mA (AC) / 10mA (DC)
Insulation Resistance	Contact discharge / Air discharge

Shanghai Minhang Testing Lab

Intelligent Bi-Polar Power Supplies

Name: AC/DC Withstand voltage & Insulation Resistance Test System

Qty: PBZ 20-20 * 13
PBZ 40-10 * 3

Applicable standards:

- * ISO 16750-2
- * ISO 7637



Equipment Name		Intelligent Bi-Polar Power Supplies	
Manufacturer		KIKUSUI	
Model No.		PBZ 20-20	PBZ 40-10
Qty		13	3
Performance			
Output	CV(V)	±20	±40
	CC(A)	±20	±10
Wave function		Sine wave, Square wave, Pyramidal wave, 16 waves	
Raise time / Decline time (CC)		35us/100us/350us/1ms TYP	70us/100us/350us/ 1ms TYP

Moment Disconnection Tester

Name: Moment Disconnection Tester

Qty: NMS10 * 1

Applicable standards:

- * ISO 16750-2
- * ISO 7637



Equipment Name	Moment Disconnection Tester
Manufacturer	NAC
Model No.	NMS10
Qty	1
Performance	
Detection voltage	DC12V±10%
Detection current	1A/100mA/10mA±10%
Resistance Value	1A:1Ω~50Ω±0.5Ω+10%
	100mA:5~500Ω±0.5Ω+10%
	10mA:50~5kΩ±0.5Ω+10%
Moment Disconnection Detection range	0.1μsec~99.9μsec±0.1μsec
Detection of playback time	MAX 10msec
Test time	1s~999h59min59s

Shanghai Pudong Testing Lab

Walk-in Constant Temperature & Humidity Chamber

Name :

Walk-in Constant Temperature & Humidity Chamber

Qty :

AZTH12U-1K * 2

Applicable standards :

- * GB/T31467.3
- * GB/T31485
- * IEC 60068-2-2
- * GB/T2423.2
- * IEC 60068-2-78
- * GB/T2423.3
- * IEC 60068-2-30
- * GB/T2423.4
- * IEC 60068-2-1
- * IEC 60068-2-38
- * GB/T 2423.34
- * GB/T2423.1



Equipment Name	Walk-in Constant Temperature and Humidity Chamber
Manufacturer	ZUNDAR
Model No.	AZTH12U-1K
Qty:	2
Temperature range	-40~+100℃
Humidity range	10%~98%RH
Temperature & Humidity Gradient	±2℃/±5%RH
Temperature & Humidity Fluctuation	±0.5℃/±3%RH
Temperature rise and fall rate	1K/min (-35℃~+75℃)
Internal dimension (W*H*D)	3000 * 2000 * 2000

Shanghai Pudong Testing Lab

Walk-in Constant Temperature & Humidity Chamber

Name : Walk-in Constant Temperature & Humidity ChamberQty : AZTH12U-5K * 1

Applicable standards :

- * GB/T31467.3
- * GB/T31485
- * IEC 60068-2-2
- * GB/T2423.2
- * IEC 60068-2-78
- * GB/T2423.3
- * IEC 60068-2-30
- * GB/T2423.4
- * IEC 60068-2-1
- * IEC 60068-2-38
- * GB/T 2423.34
- * GB/T2423.1



Equipment Name	Walk-in Constant Temperature and Humidity Chamber
Manufacturer	ZUNDAR
Model No.	AZTH12U-5K
Qty:	1
Temperature range	-40~+100℃
Humidity range	10%~98%RH
Temperature & Humidity Gradient	±2℃/±5%RH
Temperature & Humidity Fluctuation	±0.5℃/±3%RH
Temperature rise and fall rate	5K/min (-35℃~+75℃)
Internal dimension (W*H*D)	3000 * 2000 * 2000

Shanghai Pudong Testing Lab

Walk-in Alternation Salt Spray Test Chamber

Name:

Walk-in Alternation Salt Spray Test Chamber

Qty:

AZWTH12R-CCT * 2

Applicable standards:

- * GB/T31467.3
- * IEC 60068 -2 -11
- * GB/T2423.18
- * IEC 60068 -2 -52
- * JASO / M609 ▪ M610 / ISO
- * GB/T2423.17



Equipment Name	Walk-in Alternation Salt Spray Test Chamber
Manufacturer	ZUNDAR
Model No.	AZWTH12R-CCT
Qty:	2
Salt Spray	15°C ~ 70°C
Dry	50°C ~ 55°C
Wet	40°C~50°C 、 90% R H
Static normal temperature	25°C
Internal dimension (W*H*D mm)	2000*2000*3000

Shanghai Pudong Testing Lab

Power Battery Assembly Charge-Discharge Test Equipment

Name: _____

Power Battery Assembly Charge-Discharge Test Equipment

Qty: _____

EVT200-1000-3 * 3

Applicable standards:

- * GB/T 31485-2015
- * GB/T 31486-2015
- * GB/T 31484-2015
- * GB/T 31467.1-2015
- * GB/T 31467.2-2015
- * GB/T 31467.3-2015



Equipment Name	Power Battery Assembly Charge-Discharge Test Equipment
Manufacturer	Dlgatron
Model No.	EVT200-1000-3
Qty:	3
voltage range	(50~1000) V Resolution: 1mV
Current range	Single channel: (-200~ + 200) A Resolution: 1mA
Power range	Single channel: 80KW 、 Support parallel between channels

Shanghai Pudong Testing Lab

Power Battery Assembly Charge-Discharge Test Equipment

Name :

Power Battery Assembly Charge-Discharge Test Equipment

Qty :

BPT2-300-1000 * 2

Applicable standards :

- * GB/T 31485-2015
- * GB/T 31486-2015
- * GB/T 31484-2015
- * GB/T 31467.1-2015
- * GB/T 31467.2-2015
- * GB/T 31467.3-2015



Equipment Name	Power Battery Assembly Charge-Discharge Test Equipment
Manufacturer	MKLtech
Model No.	BPT2-300-1000
Qty :	2
voltage range	(50~1000) V Resolution: 1mV
Current range	Single channel: (-300~ + 300) A Resolution: 1mA
Power range	Single channel: 160kW 、 Support parallel between channels

Shanghai Pudong Testing Lab

Mechanical Shock Test System

Name :

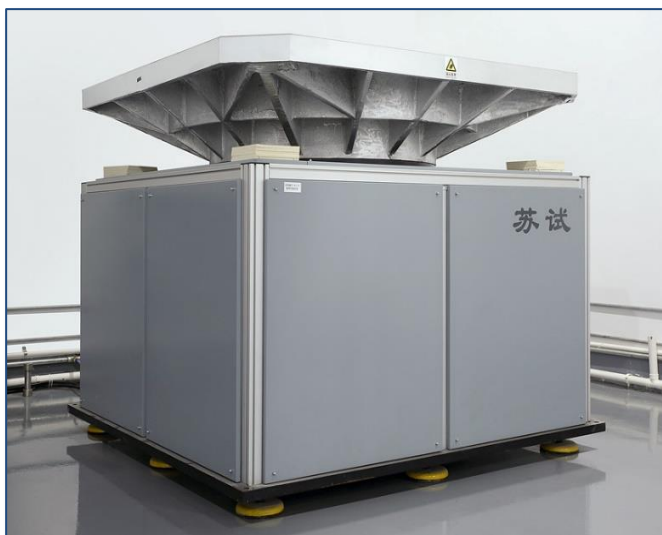
Mechanical Shock Test System

Qty :

QCL-1000 A *1

Applicable standards :

- * GB/T31467.3
- * IEC 60068-2-27
- * JB/T 6868
- * GJB-360
- * GB/T2423.6



Equipment Name		Mechanical Shock Test System				
Manufacturer		STI				
Model No.		QCL-1000A				
Qty:		1				
Shock Test System Spec						
specified load (kg)	impact Pulse waveform	Drive mode	Peak acceleration range(g)	pulse duration	Key indicators	Table Size(mm)
1000	Semi-positive	Fully automatic Air pressure	15~50	6~30ms	25g~15ms	2000*2000

Shanghai Pudong Testing Lab

Large Gas Corrosion Test Instrument - GS-UVZ

Name: _____

Large Gas Corrosion Test Instrument

Qty: _____

GS-UVZ * 1

Applicable standards:

- * GB/T 2423.51
- * IEC 60068-2-60
- * ISO 10062
- * JIS H 8502
- * EIA-364-65A



Equipment Name	Large gas corrosion test instrument		
Manufacturer	SUGA		
Model No.	GS-UVZ		
Qty:	1		
Gas	SO ₂ , H ₂ S, NO ₂ , Cl ₂		
Gas Concentration	SO ₂ : 0.01~200ppm		
	H ₂ S: 0.01~200ppm		
	NO ₂ : 0.2~20ppm		
	Cl ₂ : 0.01~20ppm		
Temperature and Humidity Range	Temperature	25~30℃	
	Humidity	75%RH	25℃ ≤ T < 30℃
		70%RH	30℃
Internal dimension (W*H*D mm)	1200*1200*800		

Shanghai Pudong Testing Lab

20T Vibration Test Equipment-DC-20000-200

Name: _____

Vibration Test Equipment

Qty: _____

DC-20000-200 * 1

Applicable standards:

- * GB/T31467.3
- * IEC 60068-2-27
- * GB/T 2423.6
- * IEC60068-2-29
- * GB/T2423.5
- * GB/T 2423.10
- * IEC 60068-2-6
- * GB/T 2423.56
- * IEC 60068-2-64



Equipment Name			Vibration Test Equipment				
Manufacturer			STI				
Model No.			DC-20000-200				
Level			2500*2500mm				
Vertical			2500*2000mm				
Qty:			1				
Maximum thrust			Frequency range	Acceleration	Displacement	Speed	Maximum load
Sine	random	impact	2~2200 Hz	100g	76mm	2m/s	2000kg
200 kN	200 kN rms	400 kN					

Name :

20T Combined Environment Reliability Test System

Qty :

DC-20000-200 + AZWTH17U-VIB

Applicable standards :

- * GB/T31467.3
- * IEC 60068-2-50,IDT
- * GB/T 2423.36
- * IEC 60068-2-51,IDT
- * GB/T 2423.35



Specification

Equipment Name		20T Combined Environment Reliability Test System					
Manufacturer		STI + ZUNDAR					
Model No.		DC-20000-200 + AZWTH17U-VIB					
Qty:		1					
Vibration Testing System Spec							
Maximum thrust			Frequency range	Acceleration	Displacement	Speed	Maximum load
Sine	Random	Shock	2~2200 Hz	100g	76mm	2m/s	2000kg
200 kN	200 kN rms	400 kN					
Level (L*W mm)			2500*2500				
Vertical (L*W mm)			2500*2000				
Internal dimension (W*H*D)			3000*1800*3100				
Temperature range			-40℃~+100℃				
Humidity range			20%~98%RH				

Shanghai Pudong Testing Lab

Programmable DC Power-CHROMA62012

Chroma 62000P series programmable DC power supply provides many unique features for ATE integration and testing. These include a constant power operating range, accurate output current and voltage measurements, output trigger signals, and the ability to simulate complex DC transient waveforms for instantaneous breakdowns, voltage rises, and deviations from other voltages. Multiple voltage and current combinations are allowed to output 600V / 8A / 1200W under constant power operation.

1. Multiple sets can be freely combined
2. It is suitable for DC/DC converter and inverter, voltage drop test, motor start simulation, automatic battery charging, life

Name: Programmable DC Power

Qty: * 10Sets

Suitable standards:

- * GB/T 31485-2015
- * GB/T 31486-2015
- * GB/T 31484-2015
- * GB/T 31467.1-2015
- * GB/T 31467.2-2015
- * GB/T 31467.3-2015



Specification

Product Name		Programmable DC Power								
Suitable Test		Motor start-up simulation, automatic battery charging, life cycle testing of electronic products								
Manufacture		CHROMA								
Model No.		62012P-600-8								
Set		1								
Specification										
Voltage Output	Current Output	Power Output	Voltage Test		Current Test		The voltage rises/down time	High Power factor		
0-600V	0-8A	1200W	Range	Accuracy	Range	Accuracy	10ms-99hours	0.95		
			120V/600V	0.05% + 0.05%F.S	1.6A/8A	0.1% + 0.1%F.S				
Specification										
Control interface			Standard RS-232&USB control interface , GPIB or Ethernet optional							
Control driver			LabView and Labwindows Control driver Programme							
Simulate serial number control interface			APG							
The voltage compensation			5V							
Operating temperature			0~40℃							

Shanghai Pudong Test Center

Hangke Battery Test Device

Hangzhou LIT series battery test system is designed for single lithium ion battery charging and discharging high accuracy test devices, it is suitable for the battery life cycle test, the quality of outgoing inspection, incoming quality control inspection, material test, pre-production test, material properties research, it contains the battery life, capacity test, DCIR tests, etc. The system consists of the equipment host, battery tray fixture or battery bracket, and control computer. The system control software mainly includes the functions of test process editing, capacity statistics, real-time data recording/analysis, historical data statistics and analysis. The equipment is composed of 12 independent channel control charge and discharge control boxes and a power supply control box.

1. Suitable for charge and discharge test of single battery
2. It has multiple safety designs
3. Programmable charge and discharge control test

Name: Hangke Battery test Device

Qty: * 1set

Suitable Standard:

- * GB/T 31485-2015
- * GB/T 31486-2015
- * GB/T 31484-2015
- * GB/T 31467.1-2015
- * GB/T 31467.2-2015
- * GB/T 31467.3-2015



Specification

Specification

Product Name	Battery TestDevice							
Suitable Test	Cell charge/discharge test							
Manufacture	Hangke							
Model Size.	1790mm (High) ×766mm (Width) ×1025mm(Depth)							
Set	1							
Input Voltage	Communica tion Port	Power Output	Output Voltage		Output Voltage		Channel Qty	Temperature range
AC380V±10%	Ethernet	0.15W ~ 1800W	Range	Accuracy	Range	Accuracy	12	minus20℃ ~+120℃
			0~5V	±0.05%FS	0.1A ~ 360A	±0.05%FS		

Shanghai Pudong Testing Lab

Energy Recycling Battery Modular Test System-CHROMA 17030

Chroma 17030 system has working conditions of simulated function (dynamic current, waveform simulation testing), the use of the battery pack is fast and not specifications of the current state, through the working condition of simulation function, the use of the battery status can be real reaction on the battery, the hardware have seamless type conversion to charge and discharge function, can fast charge and cut in, not to delay in the process of transformation, set the simulation programming quick charging and discharging mode, can simulate the battery state of actual use. Support the testing requirements of FUDS

1. Industrial large current charge and discharge test, dynamic current charge and discharge function, actual road current waveform test
2. It is suitable for battery management system test and

Name: Energy Recycling Battery
Moduler Test System

Qty: 17030 * 2sets

Suitable standards:

- * GB/T 31485-2015
- * GB/T 31486-2015
- * GB/T 31484-2015
- * GB/T 31467.1-2015
- * GB/T 31467.2-2015
- * GB/T 31467.3-2015



Specification

Specification								
Product Name		Energy Recycling Battery Muduler Test System						
Suitable Test		Battery management system test/ Battery pack endurance test, etc						
Manufacture		CHROMA						
Model No.		17030						
set		1						
Size、Parameters								
Dimension 90"Hx79"Wx24"D								
V Range	V Accuracy	Max. Current	Current		Power		current rise/down time	AC Input
19-900Vdc	0.1%FS	500A	Accuracy	Resolution	maximum power	Resolution	10ms (10% to 90%)	3Phases 380±5% VLL
			0.2%FS	25mA	210KW	25W		

Shanghai Pudong Testing Lab

Programmable Battery Charge/Discharge Test System-CHROMA 17011

Chroma 17011 programmable battery charging and discharging system is designed for lithium ion secondary battery and electric double layer capacitor (EDLC) testing and development of high precision equipment, support channel parallel output function, can do more flexible combination of current test, application range covers all kinds of size of monomer lithium ion battery test, or larger capacity battery module characteristic test.

1. Ability to output and measure records quickly
2. High precision specifications to ensure test quality
3. It is suitable for battery life test and battery

Name: Programmable Battery Charge/Discharge Test System

Qty: 17011 * 1set

Suitable standards:

- * GB/T 31485-2015
- * GB/T 31486-2015
- * GB/T 31484-2015
- * GB/T 31467.1-2015
- * GB/T 31467.2-2015
- * GB/T 31467.3-2015

Specification



Product Name	Qty.	unit	note
Programmable charge and discharge testerChroma 17200(Frame+Modules)	2	set	The configuration depends on the number of channels and the parallel state
Modular DCpower supplyChroma 62000B(Frame+Modules)	1	set	The number of modules is configured according to the power requirement
Safety control panel	1	group	Emergency stop switch, power start button, system power indicator
HUB	1	set	Select the number of Hub ports depending on the number of channels
DC Power Supply to 17200 wiring	1	group	Configure depending on the number of 17200 modules
Panel	1	group	The number of Bresker is determined by the number of frames
Easy manual	1	set	Chinese
Easy manual disc	1	set	Chinese/English

Specifications

Chroma17200 can carry CC、CC-CV、CP-CV、CR、WAVEFROM、DCR、C、DCIR charge/discharge modes, It can be used to test battery and capacitance。

Size: 222mmH x 428mmW x 643mmD

The power input: DC 23.8-24.5V

Consumed power: 2KW

Working temperature:23°C±5°C, 20%-70%RH

Specifications and temperature: 5°C-45°C, 20%-90%RH,clean class 1000K

Shanghai Pudong Testing Lab

Inertial characteristic measuring device-RESONIC 350F

Using the new measurement scheme developed by RESONIC, the inertial characteristics can be measured more precisely by measuring the free vibration of 5 or 6 degrees of freedom.

The device has no complex movable parts, no need to change the position during the measurement process, and can be used for high-precision measurement safely.

- 1. Used for measuring the center of mass and center of gravity of engine, compressor and other products
- 2. High precision data based on CAE software model
- 3. Suitable for engine, compressor and other suspension shock absorber design



Name: Inertial characteristic measuring device

Qty: Resonic 350F * 1set

Remarks:

- * The motion characteristics of an object are mainly the three important parameters of mass, the center of gravity and the moment of inertia, which are collectively referred to as the inertia characteristics. With these three quantities obtained, the prediction control of the motion of rigid bodies (bodies that do not deform during movement) can be realized.



Specification & Testing Principle

Specification & Testing Principle					
Product Name	Inertial characteristic measuring device				
Suitable Test	Measure the center of mass and center of gravity of engine, transmission device and other auto part				
Manufacture	RESONIC				
Model No.	RESONIC 350F				
Size	65cmH x 86cmW x 75cmD				
set	1				
Test Principle	The total inertia characteristic of "Measuring object + Fixture + Loading platform" is measured first, and then the part of "Fixture + Loading platform" is removed from it, and the net value of inertia characteristic is calculated.The net worth is calculated automatically by the corresponding software.If necessary, three-dimensional measurement can be made, and then the coordinate system can be converted according to the customer's needs.				
Parameters					
Center of gravity position accuracy		Accuracy of moment of inertia	Product of inertia accuracy	Weight range	The net weight
Horizontal direction	Vertical direction	< 0.1%Maximum moment of inertia	< 0.1%Maximum moment of inertia	20kg-350kg	100kg
0.5mm	1.0mm				

Test Procedure:

- 1 Move the center of gravity of the object to the center of the device
- 2 Use weights to test the position of the center of gravity in the horizontal direction
- 3 The vibration is applied based on 5 or 6 degrees of freedom so that it can be measured
- 4 Measure the free vibration of each mode
- 5 The inertia characteristic is determined by using the natural vibration number of each mode

Suzhou Subsidiary

3-Comprehensive Test Chamber-EMIC

Simulation of main environmental conditions such as the engine's sine vibration, the random vibration, mechanical shock caused by handling or bump road. Comprehensive environmental test system mainly climate box and the comprehensive vibration test rig, when the test temperature (high or low temperatures) humidity, vibration, (sinusoidal vibration and random vibration) in accordance the electric stress cycle integrated applied to the sample in the same climate chamber temperature and humidity on the vibration of the comprehensive test. Compared with the single factor, it is the defect of the new product and it is an important test method in the whole process from the development of the new product, the prototype test to the product qualification test.

- 1 "Vibration+Temperature+Humidity" Combined
2. Parts, products corresponds
- 3 Vibration, temperature/humidity individual

Name: 3-Comprehensive Test Chamber

Qty: * 1set

Suitable standards:

- * GB/T 2423.35
IEC 60068-2-50, IDT
- * GB/T 2423.36
IEC 60068-2-51, IDT



Specification

Specification							
Product Name			Vibration, Temperature, Humidity3-Comprehensive Test Chamber				
Suitable Test			Vibration, Temperature, Humidity3-Comprehensive Test				
Manufacture			Vibration Device: EMIC temperature/humidity chamber: EMIC				
Model No.			F-16000BDH/LA16AW + VC-102DAFX(43)P3N				
set			1set(3axis vibrostand 1set+temperaturechamber1set)				
Vibrostand+Temperature Specification							
Max.Inpulse			Frequency range	Max. displacement	Temperature	Temperature range	Inner Capacity
Sine	Random	Shock	1-3kHz	56mm	-55~200℃	20~95%RH	1000L
16K	12.8K	40K					
No-P	Nrms	No-P					
Specification							
Vibrostand size (L*W mm)			800*800				
Temperature chamber innner capacity (W*H*D mm)			1000*1000*1000				

Suzhou Subsidiary

3-Comprehensive Test Chamber-EMIC+ZUNDAR

Simulation of main environmental conditions such as the engine's sine vibration, the random vibration, mechanical shock caused by handling or bump road. Comprehensive environmental test system mainly climate box and the comprehensive vibration test rig, when the test temperature (high or low temperatures) humidity, vibration, (sinusoidal vibration and random vibration) in accordance the electric stress cycle integrated applied to the sample in the same climate chamber temperature and humidity on the vibration of the comprehensive test. Compared with the single factor, it is the defect of the new product and it is an important test method in the whole process from the development of the new product, the prototype test to the product qualification test.

- 1 "Vibration+Temperature+Humidity" Combined
2. Parts, products corresponds
- 3 Vibration, temperature/humidity individual

Name: 3-Comprehensive Test Chamber

Qty: * 1set

Suitable standards:

- * GB/T 2423.35
IEC 60068-2-50, IDT
- * GB/T 2423.36
IEC 60068-2-51, IDT



Specification

Product Name		Vibration\Temperature\Humidity3-Comprehensive Test Chamber					
Suitable Test		Vibration\Temperature\Humidity3-Comprehensive Test					
Manufacture		Vibration device: EMIC Temperature/humidity box: ZUNDAR					
Model No.		F-35000BDH/LA36AW					
set		1set(3axes 1vibrationset+1chamberset)					
Vibration device+temperature chamber parameters							
Max. Inpulse			Frenquency Range	Max. displacement	Temperature	Warming	Humidity
Sine	Random	Shock	1-2.2kHz	60mm	-55~180°C	-40°C~150°C X51+Suzhou3comprehensive B44test deviceF16000BDH!Suzh	20-98%RH
35K No-P	28K Nrms	87.5K No-P					
Specification							
vibrostand size (L*W mm)			800*800				
temperature chamber inside dimensions (W*H*D mm)			1300*1400*1000				
Temperature chamber innner capacity(L)			1800L				

Suzhou Subsidiary

Fast Temperature Cycling Chamber-EC25EXHH

The temperature range is $-70^{\circ}\text{C} \sim +180^{\circ}\text{C}$. The temperature change rate is: $15^{\circ}\text{C}/\text{min}$.

1. Temperature range, $-70^{\circ}\text{C} \sim +180^{\circ}\text{C}$
2. Humidity: 20%~98%RH
3. Warming rate: $15^{\circ}\text{C}/\text{min}$,

Name: Temperature Cycling Chamber

Qty: EC-25EXHH * 2set

Suitable standards:

- * GB/T2423.1
- * GB/T2423.2
- * GB/T2423.3
- * GB/T2423.4
- * IEC 600688-2-14 Nb
- * GB/T 2423.22 Nb
- * All kinds of PTC tests



Specification

Product Name		Temperature Cycling Chamber
Suitable Test		All kinds of PTC tests
Manufacture		HITACHI
Model No.		EC-25EXHH-R
set		2
	Temperature Range	$-70^{\circ}\text{C} \sim +180^{\circ}\text{C}$
	Humidity Range	20%~98%RH
	Variable Temperature Speed	$15^{\circ}\text{C}/\text{min}$
Identity	Inner Size (W*H*D mm)	630mm×540mm×690mm
	Inner Capacity	235L

Suzhou Subsidiary

Temperature Cycling Chamber-EC85EXH

Fast temperature changing test chamber with humidity controlled,
Temperature Range:-70℃~+150℃。Variable temperature speed: 5℃/min, 。

- 1。 Temperature range, -70℃~+150℃
- 2。 Humidity : 20%~98%RH
- 3。 Warming rate: 5℃/min,

Name: Temperature Cycling Chamber

Qty: EC-85EXH-R * 1set

Suitable standards:

- * GB/T2423.1
- * GB/T2423.2
- * GB/T2423.3
- * GB/T2423.4
- * IEC 600688-2-14 Nb
- * GB/T 2423.22 Nb
- * All kinds of PTC tests



Specification

Product name		Temperature Cycling Chamber
Suitable test		Variety of PTC Test
Manufacture		HITACHI
Model No.		EC-85EXH
Set		1
	Temperature Range	-70℃~+150℃
	Humidity Range	20%~98%RH
	Varialbe Temperature Speed	5℃/min
Identity	Inner Size (W*H*D mm)	1000mm×800mm×1000mm
	Inner Capacity	800L

Suzhou Subsidiary

High/Low Temperature & Constant Humidity Cycling Chamber-EC86MHHPE

Standard constant temperature and humidity test chamber is suitable for parts or products. Various environmental tests can be carried out at constant temperature and humidity, as well as environmental tests with temperature and humidity changes, and all operations can be controlled by programme.

1. Temperature range
(-40℃~150℃)
2. Humidity 20-98%RH
3. Inner capacity 800L

Name: Temp & Humidity Chamber

Qty: EC-86MHHPE * 1set

Suitable standards:

- * IEC 60068-2-1
- * GB/T2423.1
- * IEC 60068-2-2
- * GB/T2423.2
- * IEC 60068-2-78
- * GB/T2423.3
- * IEC 60068-2-30
- * GB/T2423.4
- * IEC 60068-2-38
- * GB/T 2423.34



Specification

Product Name	Temp & Humidity Chamber	
Suitable test	High/Low Temperature & Constant Humidity Cycling Chamber	
Manufacture	HITACHI	
Model No.	EC86MHHPE	
Set	1	
	Temperature Range	-40~150℃
	Humidity Range	20%RH~98%RH
Inner Size(W*H*D mm)		1000* 800 * 1000

Suzhou Subsidiary

High/Low Temperature & Constant Humidity Cycling Chamber-EC-46MHHPE

Standard constant temperature and humidity test chamber is suitable for parts or products. Various environmental tests can be carried out at constant temperature and humidity, as well as environmental tests with temperature and humidity changes, and all operations can be controlled by programme.

1. Temperature range
(-40°C ~150°C)
2. Humidity: 20-98%RH
3. Inner capacity: 400L

Name: Constant temperature & Humidity
Test Chamber

Qty: EC-46MHHPE * 1set

Suitable standards:

- * IEC 60068-2-1
- * GB/T2423.1
- * IEC 60068-2-2
- * GB/T2423.2
- * IEC 60068-2-78
- * GB/T2423.3
- * IEC 60068-2-30
- * GB/T2423.4
- * IEC 60068-2-38
- * GB/T 2423.34



Specification

Product Name		Temp & Humidity Chamber
Suitable Test		High/Low Temperature & Constant Humidity Cycling Chamber
Manufacture		HITACHI
Model No.		EC46MHHPE
Set		1
	Temperature Range	-40~150°C
	Humidity Range	20%RH~98%RH
Inner Size(W*H*D mm)		630* 720 * 900

Suzhou Subsidiary

High/Low Temperature & Constant Humidity Cycling Chamber-EC-86MHPH

Standard constant temperature and humidity test chamber is suitable for parts or products. Various environmental tests can be carried out at constant temperature and humidity, as well as environmental tests with temperature and humidity changes, and all operations can be controlled by programme.

1. Temperature range
(-40°C ~150°C)
2. Humidity: 20-98%RH
3. Inner capacity: 800L

Name: Temp & Humidity Chamber

Qty: EC-86MHPH * 1Set

Suitable standards:

- * IEC 60068-2-1
- * GB/T2423.1
- * IEC 60068-2-2
- * GB/T2423.2
- * IEC 60068-2-78
- * GB/T2423.3
- * IEC 60068-2-30
- * GB/T2423.4
- * IEC 60068-2-38
- * GB/T 2423.34



Specification

Product Name		Temp & Humidity Chamber
Suitable test		High/Low Temperature & Constant Humidity Cycling Chamber
Manufacture		HITACHI
Model No.		EC-86MHPH
Set		1
	Temperature Range	-40~150°C
	Humidity Range	20%RH~98%RH
Inner Size(W*H*D mm)		1000* 800 * 1000

Suzhou Subsidiary

High/Low Temperature & Constant Humidity Cycling Chamber-GEC-85MHHPM

Standard constant temperature and humidity test chamber is suitable for parts or products. Various environmental tests can be carried out at constant temperature and humidity, as well as environmental tests with temperature and humidity changes, and all operations can be controlled by programme.

1. Temperature range
(-40℃~150℃)
2. Humidity 20-98%RH
3. Inner capacity 800L

Name: Temp & Humidity Chamber

Qty: GEC-85MHHPM * 2Sets

Suitable standards:

- * IEC 60068-2-1
- * GB/T2423.1
- * IEC 60068-2-2
- * GB/T2423.2
- * IEC 60068-2-78
- * GB/T2423.3
- * IEC 60068-2-30
- * GB/T2423.4
- * IEC 60068-2-38
- * GB/T 2423.34



Specification

Product Name		Temp & Humidity Chamber
Suitable test		High/Low Temperature & Constant Humidity Cycling Chamber
Manufature		HITACHI
Model No.		GEC-85MHHPM
Set		1
	Temperature Range	-40~150℃
	Humidity Range	20%RH~98%RH
Inner Size(W*H*D mm)		1000* 800 * 1000

Suzhou Subsidiary

High/Low Temperature & Constant Humidity Cycling Chamber-ETH-040B

Standard constant temperature and humidity test chamber is suitable for parts or products. Various environmental tests can be carried out at constant temperature and humidity, as well as environmental tests with temperature and humidity changes, and all operations can be controlled by programme.

1. Temperature range
(-40°C ~150°C)
2. Humidity 20~98%RH
3. Inner capacity: 408L

Name: Constant Temp & Humidity Chamber

Qty: ETH-040B * 1Set

Suitable standards:

- * IEC 60068-2-1
- * GB/T2423.1
- * IEC 60068-2-2
- * GB/T2423.2
- * IEC 60068-2-78
- * GB/T2423.3
- * IEC 60068-2-30
- * GB/T2423.4
- * IEC 60068-2-38
- * GB/T 2423.34



Specification

Product Name	Temp & Humidity Chamber	
Suitable test	High/Low Temperature & Constant Humidity Cycling Chamber	
Manufacture	HITACHI	
Model No.	ETH-040B	
Set	1	
	Temperature Range	-40~150°C
	Humidity Range	20%RH~98%RH
Inner Size(W*H*D mm)		600* 850 * 800

Suzhou Subsidiary

Thermal Shock Chamber (Cold&Hot) -ES106LH

Thermal Shock test chamber is the necessary test equipment for materials such as metal, plastic, rubber, electronic products, it is used for testing of composite material structure, in an instant by extremely high temperature and extremely low temperature, it can check samples' chemical or physical damage for heat bilges cold shrink in the shortest time.

1. Low temperature range (-70℃~0℃)
2. High temperature range (80℃~200℃)
3. Inner Capacity:200L

Name: Thermal Shock Chamber

Qty: ES-106LH * 1Set

Suitable standards:

- * GB/T2423.22
- * MIL-STD-883G
- * MIL-STD-202G
- * IEC60068-2-14
- * EIAJ-ED-4701



Specification

Product Name	Thermal Shock Chamber (Cold&Hot)	
Suitable test	Low/High Temperature	
Manufacture	HITACHI	
Model No.	ES-106LH	
Set	1	
	Temperature Range	-70℃~0℃
	Humidity Range	60~200℃
Inner Size(W*H*D mm)		470* 485* 460

Suzhou Subsidiary

Thermal Shock Chamber (Cold&Hot) -ES-206EX-R

Thermal Shock test chamber is the necessary test equipment for materials such as metal, plastic, rubber, electronic products, it is used for testing of composite material structure, in an instant by extremely high temperature and extremely low temperature, it can check samples' chemical or physical damage for heat bilges cold shrink in the shortest time.

1. Low temperature range (-70℃~0℃)
2. High temperature range (80℃~200℃)
3. Inner Capacity:200L

Name: Thermal Shock Chamber

Qty: ES-206EX-R * 1Set

Suitable standards:

- * GB/T2423.22
- * MIL-STD-883G
- * MIL-STD-202G
- * IEC60068-2-14
- * EIAJ-ED-4701



Specification

Product Name	Thermal Shock Chamber (Cold&Hot)	
Suitable test	Low /High Temperature	
Manufacture	HITACHI	
Model No.	ES-206EX-R	
Set	1	
	Low Temperature Range	-70℃~0℃
	High Temperature Rang	80~200℃
Inner Size(W*H*D mm)		630* 690* 460

Suzhou Subsidiary

Thermal Shock Chamber (Cold&Hot) -ES-206LHH

Thermal Shock test chamber is the necessary test equipment for materials such as metal, plastic, rubber, electronic products, it is used for testing of composite material structure, in an instant by extremely high temperature and extremely low temperature, it can check samples' chemical or physical damage for heat bilges cold shrink in the shortest time. The ES-206LHH belongs to high-speed type, and the required recovery time is within 3 minutes (-55°C/30min-125°C/30min).

1. Low temperature range (-70°C~0°C)
2. High temperature rang (60°C~200°C)
3. Inner Capacity 200L

Name: Thermal Shock Chamber

Qty: ES-206LHH * 1Set

Suitable standards:

- * GB/T2423.22
- * MIL-STD-883G
- * MIL-STD-202G
- * IEC60068-2-14
- * EIAJ-ED-4701



Specification

Product Name	Thermal Shock Chamber (Cold&Hot)	
Suitable test	Low/High Temperature	
Manufacture	HITACHI	
Model No.	ES-206EX-R	
Set	1	
	Low Temperature Range	-70°C~0°C
	High Temperature Rang	80~200°C
Inner Size(W*H*D mm)	630* 690* 460	

Suzhou Subsidiary

Thermal Shock Chamber (Cold&Hot) -ES-1006LH-R

Thermal Shock test chamber is the necessary test equipment for materials such as metal, plastic, rubber, electronic products, it is used for testing of composite material structure, in an instant by extremely high temperature and extremely low temperature, it can check samples' chemical or physical damage for heat bilges cold shrink in the shortest time. ES - 1006 LH-R special for large module, such as solar panels, car battery, large size LCD panel of 1080L large cold and hot shock tests cases, it can be used to test the material structure, after a very high temperature and a extremely low temperature under continuous repeated shocks, it can be used as the basis of product improvements.

1. Low temperature range (-65°C~-10°C)
2. High temperature range (60°C~200°C)
3. Inner Capacity 1080L

Name: Thermal Shock Chamber

Qty: ES-1006LHH * 2Sets

Suitable standards:

- * GB/T2423.22
- * MIL-STD-883G
- * MIL-STD-202G
- * IEC60068-2-14
- * EIAJ-ED-4701



Specification

Product Name	Thermal Shock Chamber (Cold&Hot)	
Suitable test	Low/High Temperature	
Manufacture	HITACHI	
Model No.	ES-1006LH-R	
Set	1	
	Low Temperature Range	-65°C~-10°C
	High Temperature Rang	60~200°C
Inner Size(W*H*D mm)	1450* 1000* 750	

Suzhou Subsidiary

Thermal Shock Chamber (Cold&Hot) -ES-206EX

Thermal Shock test chamber is the necessary test equipment for materials such as metal, plastic, rubber, electronic products, it is used for testing of composite material structure, in an instant by extremely high temperature and extremely low temperature, it can check samples' chemical or physical damage for heat bilges cold shrink in the shortest time.

1. Low temperature range (-70℃~0℃)
2. High temperature range (80℃~200℃)
3. Inner Capacity 200L

Name: Thermal Shock Chamber

Qty: ES-206EX * 1Set

Suitable standards:

- * GB/T2423.22
- * MIL-STD-883G
- * MIL-STD-202G
- * IEC60068-2-14
- * EIAJ-ED-4701



Specification

Product Name	Thermal Shock Chamber (Cold&Hot)	
Suitable test	Low/High Temperature	
Manufacture	HITACHI	
Model No.	ES-206EX	
Set	1	
	Low Temperature Range	-70℃~0℃
	High Temperature Rang	80~200℃
Inner Size(W*H*D mm)		630* 690* 460

Suzhou Subsidiary

Thermal Shock Chamber (Cold&Hot) -ES-206LHS

Thermal Shock test chamber is the necessary test equipment for materials such as metal, plastic, rubber, electronic products, it is used for testing of composite material structure, in an instant by extremely high temperature and extremely low temperature, it can check samples' chemical or physical damage for heat bilges cold shrink in the shortest time.

1. Low Temperature range (-70℃~0℃)
2. High Temperature range (60℃~200℃)
3. Inner capacity200L

Name: Thermal Shock Chamber

Qty: ES-206LHS * 1Set

Suitable standards:

- * GB/T2423.22
- * MIL-STD-883G
- * MIL-STD-202G
- * IEC60068-2-14
- * EIAJ-ED-4701



Specification

Product Name	Thermal Shock Chamber (Cold&Hot)	
Suitable test	Low/High temperature	
Manufacture	HITACHI	
Model No.	ES-206LHS	
Set	1	
	Low Temperature Range	-70℃~0℃
	High Temperature Rang	60~200℃
Inner Size(W*H*D mm)		630* 690* 460

Suzhou Subsidiary

Basket type cold and hot impact test Chamber-GST-030C

The cold and hot shock test box adopts the vertical box, two boxes structure, and adopts the method of carrying basket to change the test area , so as to achieve the purpose of cold and hot shock test.This structure minimizes the thermal load when the cold and hot shock occurs and shortens the temperature recovery time.

- 1. High/Low temperature switch time: <10S
- 2. Temperature recover time: <5min
- 3. Sample weight: ≤15KG

Name: Basket type cold and hot impact test Chamber

Qty: GST-030C * 1set

Suitable standards:

- * GB/T2423.1(IEC68-2-1)
- * GB/T2423.2(IEC68-2-2)
- * GB-2423.22



Specification

Product Name	Basket type cold and hot impact test Chamber	
Suitable Test	Two cases High/Low Temperature	
Manufacture	GWINSTEK	
Model No.	GST-030C	
Set	1	
	Low/High Temperature	-40℃ ~150℃
	Inlet Capacity	314L
Inner Size(W*H*D mm)		480* 480* 480

Suzhou Subsidiary

Cycling Salt-Spray Test Machine--CC450ip

No matter for parts or products, any combination test such as salt spray, condensation, drying and controlled humidity can be carried out through program control, or each test can be carried out separately. This test is used to check the corrosion resistance of electronic device material and surface coating to salt spray and salt water. Medium-sized salt spray, acetate spray, copper accelerated test and cyclic corrosion tests can be carried out.

1. Salt-Spray, air dry, condensation, Controlled Humidity 4 modes
2. Independent or Combined

Name: : Cycling Salt-Spray Test Machine

Qty: CC450ip * 1Set

Suitable standards:

- * GM954P/GMW14872
- * CCT1/CCT2/CCT3
- * CETP 00.00-L-467
- * D17 2028
- * P-VW1200、120901210
- * SAE J 2334
- * STD433-0014、TSH1555G、VCS1027
- * VDA 233-102、VDA 621-415、5100Z-SGO-A000



Specification

Product Name		Cycling Salt-Spray Test Machine
Suitable Test		Salt-Spary、Condensation、air dry、humidity control
Manufacture		ASCOTT
Model No.		CC450ip
Set		1
Identity	Temperature/Humidity range	RT-70°C/10%~100%
	Salt-spray deposition	0.5~25ml/80ml/h
	Inner Capacity	450L
	Inner Size(W*H*D mm)	1010*640*1140

Suzhou Subsidiary

Large Salt-Spary Test Chamber--MUNEE Salt-Spary test Chamber--M/SS2000

No matter for parts or products, any combination test such as Salt-spray, condensation, air drying and controlled humidity can be carried out through program control, or each test can be carried out separately.

This test is used to check the corrosion resistance of product material and surface coating to salt spray and salt water. The internal space of M/SS-2000 is up to 2000L, suitable for the Large components composite salt spray test."

1. Salt-Spray, air dry, condensation, Controlled Humidity 4 modes
2. Independent or Combined tests
3. Suitable for multi-Tests

Name: Large Salt-Spary Test Chamber

Qty: M/SS2000 * 1Set

Suitable standards:

- * GB/T2423.17
- * IEC 60068 -2 -11
- * GB/T2423.18
- * IEC 60068 -2 -52

Equivalent of Standards of MIL、DIN、ASTM etc.



Specification

Product Name		Large Salt-Spary Test Chamber
Suitable Test		Salt-Spary test, Salt-Spary、Cycling(NaCl liquar)test
Manufacture		MUNEE
Model No.		M/SS2000
Set		1
	Spary Way	Continuous/cycle (optional)
	Temperature Range	RT+10~80°C
	Humidity Range	20%~98%RH
	Salt-Spary deposition	1~2ml/80cm ² .hr
Identity	Inner Capacity	2000L
	Inner Size(W*H*D mm)	2000*1000*800

Suzhou Subsidiary

Double-arm drop tester

This test mainly meets the test of the ability of the product packaging to bear under the transportation shock condition, so as to improve the packaging design. GSH-415 adopts double column channel, spring buffer and height scale indication, which is stable and reliable, and can realize edge, surface and angle drop testing.

- 1. Max Test Load: 65kg
- 2. Drop Height: 400 ~ 1500mm

Name: Double-arm drop tester

Qty: GSH-415 * 1Set

Suitable standards:

- * GB/T 4857.5-1992
- * JB/7407-2008



Specification

Product Name	Double-arm drop tester			
Suitable Test	Drop Test			
Manufacture	Guangjun			
Model No.	GSH-415			
Set	1			
Parameters				
Max.Test Load	Drop Height	The max. dimension of the sample	The size of the bracket arm	Impact panel size
65 Kg	400 ~ 1500 mm	800 * 800 * 800mm	700*350mm	1400*1200mm

Suzhou Subsidiary

Drop Ball Impact Testing Machine

Place the test product on the test bed, drop the steel ball of the specified weight from the specified drop height on the product, impact the product, and then check the appearance and performance of the product. The machine for measuring electronic, electrical appliances, household appliances, plastic, communications and other products or components in the collision process of installation and design, so as to evaluate whether the product structure is bad or not, weight of steel ball at a certain regulation, to a certain height of free fall, hit the test materials, components, then product damage was observed.

The LX-5621 device is designed according to the «6.10 falling ball impact stripping performance method» in «GB/ T 9962-1998 glass materials for building-glass performance specifications and Test methods», and meets the requirements of impact testing for building.

1. Ball weight: 55kg、64kg、110kg、225kg、535kg
2. Drop Height: 130 ~ 1500mm

Name: : Drop ball impact testing machine

Qty: LX-5621 * 1set

Suitable standards:

- * JISR3205
- * ISO/DIS125421 12543-6
- * AS/NZS2208
- * GB/T9962



Specification

Specification		
Product Name	Drop ball impact testing machine	
Suitable Test	Drop ball impact test	
Manufacture	Lixin	
Model No.	LX-5621	
Set	1	
Parameters		
Ball Weight	Drop Height	Maximum size of test piece
55 Kg、 64 Kg、 110 Kg、 225Kg 、 535Kg	130~1500mm	400*350mm