

# Tailored Solutions to Address Specific Needs.

## Battery Materials

Materials	Cathode Material	Anode Materials	Electrolyte / Additives	Solid State Electrolyte
Lithium-Ion Battery Materials	Lithium Iron Phosphate Lithium Cobaltate Lithium Nickelate Lithium Manganate Nickel Cobalt Manganese Aluminum Precursor Nickel Cobalt Aluminum Precursor Nickel Cobalt Manganese Precursor Nickel Manganese without Cobalt Precursor	Natural Graphite Synthetic Graphite Silicon Carbon Soft Carbon Hard Carbon	LiBOB Lithium Salt LiPF <sub>6</sub> Electrolyte LiClO <sub>4</sub> Electrolyte LiTFSI Electrolyte Silicon-Carbon Electrode Electrolyte Pouch Cell High-Temperature/Low-Temperature/High-Pressure Electrolyte NaPF <sub>6</sub> Electrolyte	LAGP LLZO LLZTO LATP PEO LiPSCI LLZO LLZNO
Sodium-Ion Battery Materials	*Various Crystal Forms and Types Are Available: Nickel Manganese Sodium Acid Nickel Iron Manganese Sodium Acid Sodium Iron Phosphate NVP/OF Cathode Material (Carbon-Coated) Sodium Vanadium Phosphate Powder Sodium Prussian Blue Cathode Material	Soft Carbon Hard Carbon	NaClO <sub>4</sub> Electrolyte NaTFSI Electrolyte NaBF <sub>4</sub> Electrolyte	NASICON NPSCI
Materials for Zinc/Potassium/Magnesium/Aluminum Ion Batteries	Electrode materials/collectors Zinc Foil Aluminum Sheet Manganese Dioxide Vanadium Pentoxide Molybdenum Disulfide MXene Materials	Electrolyte Zinc Ion Battery Electrolyte (ZnCl <sub>2</sub> /SO <sub>3</sub> ) <sub>2</sub> , Zn(TFSI) <sub>2</sub> Magnesium Ion Battery Electrolyte (Mg(TFSI) <sub>2</sub> ) Potassium Ion Battery Electrolyte (KPF <sub>6</sub> , KCF <sub>3</sub> SO <sub>3</sub> , KTFSI, KFSI) Aluminum Ion Battery Electrolyte (AlCl <sub>3</sub> /SO <sub>3</sub> ) <sub>2</sub>		

## General-Purpose Materials

Diaphragm	PP/PE/PET Membrane Glass Fiber Membrane (Whatman) Conductive Ceramic Membrane	Binder	Polyvinylidene Fluoride (PVDF) Binder Lithium Polyacrylate (PAA-Li) Binder Lithium Aluminum Alloy (LA) Cathode Adhesive Sodium Carboxymethyl Cellulose (CMC) Binder Styrene-Butadiene Rubber Latex (SBR) Anode Binder Carboxylated Styrene-Butadiene Rubber Latex Binder
Conductive Agent	Ketjen Black Conductive Carbon Black Conductive Graphite Single-Walled Carbon Nanotubes TIMCAL Super P Li	Current Collector	Titanium Foil Copper Foam Aluminum Foil/Copper Foil Carbon-Coated Aluminum Foil/Carbon-Coated Copper Foil Microporous Aluminum Foil/Microporous Copper Foil Nickel Foil Nickel Foam Stainless Steel Foil Stainless Steel Mesh
Battery Assembly	Button-Type (Punched) Battery Shell (304/316 Stainless Steel Material) Spring Sheet / Washer Tab Aluminum Plastic Film Electrolytic Cell In-Situ Test Cell Electrode / Electrode Clip Solid-State Battery Test Fixture		

\*The picture is for reference only, please refer to the actual product

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## Measurement and Containers

Beakers	Reagent Bottle	Sample Bottle	Volumetric Flask
Wash Bottle	Weighing Bottle	Glass Petri Dish	Precision pH Test Paper

## Heating and Reaction

Ceramic Crucible	Crucible (Graphite/ Copper/ Molybdenum/ High-Purity Platinum)
PTFE Evaporating Dish	Asbestos Net
Microscale Distillation Apparatus	Hydrothermal Reaction Vessel

## Accessories and Tools

Tweezers	Stainless steel microspoon
Ear syringe	Glass rod
Adapter series	Tripod stand / Iron stand

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## Mixing and Separation

Centrifuge Tube	Filter Paper / Filter Membrane
Porcelain Buchner Funnel	Ball Mill Jar / Ball Milling Balls
Drying Tube Series	Needle Filter (Various Materials Available for Selection)

## Protective and Cleaning

Disposable Nitrile Gloves	Self-Sealing Bag
Lint-Free Wiping Cloth	Brush Series
Anti-Fog Chemical Goggles	Laboratory-Specific Sealing Film

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Simplify Procurement  
Facilitate Research

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Researchers Best

## Our Values

Simplify Complexity  
Act with Kindness

## About NEWARE

1998 Established in  
50,000+ Clients  
1,000+ Employees  
1,000+ Patents & Software Copyrights

Dedicated to providing support for Global Battery Manufacturers, Electric Vehicle Producers, Energy Storage Battery Manufacturers, as well as Enterprises, National Quality Inspection Departments, Universities, and Research Institutions

- Providing high-performance Battery Testing Systems, Formation and Grading Systems, Environmental Test Chambers, and Automation Equipment
- Providing system services (NEWARE LabTech AI+ NEWARE Store BI), LIMS+MES
- Providing global service network, achieving timely response



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Since 1998

## Turnkey Solutions of Battery Preparation



## NEWARE Coin Cell Battery Solution

01.Raw Material Weighing Electronic Precision Analytical Balance	02.Raw Material Grinding Agate Mortar	03.Stirring Small Planetary Vacuum Mixer Magnetic Stirrer
04.Viscosity Testing Viscometer	05.Slurry Coating Automatic Coating and Drying Machine	06.Vacuum Drying Benchtop Vacuum Drying Oven
07.Electrode Roller Pressing Electric Vertical Roller Machine	08.Electrode/Diaphragm Punch Coin Cell Punching Machine	09.Atmosphere Control Single Sided Double Station Glove Box
10.Electrolyte Filling Manual Pipettes P Series	11.Voltage/resistance testing Handheld Four Probe Resistivity Tester	12.Battery Sealing Manual Coin Cell Sealing Machine Electric Coin Cell Sealing Machine
13.CV/EIS Testing Electrochemical Workstation	14.Constant Temperature Testing Mini Constant Temperature Chamber	15.Charge and Discharge Testing 5V/10/20/50/100mA Battery Test Equipment Coin Cell All-in-One Testing System
16.High and Low Temperature Testing High and Low Temperature Chamber	17.Expansion Test Scientific In-situ Battery Expansion Tester	18.Battery recycling Coin Cell Disassembly Machine

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Integrated Test Solution,  
Improves Manufacturing Process.





















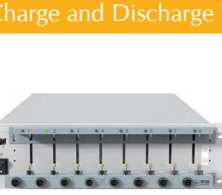


## NEWARE — Cylindrical Cell Battery Solution

01.Raw Material Weighing  Electronic Precision Analytical Balance	02.Vacuum Stirring  Small Planetary Vacuum Mixer	03.Viscosity Testing  Viscometer	04.Moisture Testing  Moisture Analyser
05.Slurry Filtering  Iron Removal Filtration Machine for Slurry	06.Slurry Coating  Fully Automatic Experimental Coater	07.Vacuum Drying  Benchtop Vacuum Drying Oven	08.Electrode Roller Pressing  Electric Vertical Roller Machine
09.Electrode Tab Cutting  Electric Splitting Machine	10.Electrode Sheet Cross Cutting  Automatic Cross Cutting Machine	11.Welding of Tabs  Ultrasonic Metal Spot Welding Machine	12.Electrode Winding  Manual Winding Machine
13.Shell Groove  Semi-Auto Cylindrical Cell Grooving Machine	14.Cap Welding  Ultrasonic Metal Spot Welding Machine	15.Atmosphere Control  Single Sided Double Station Glove Box	16.Electrolyte Filling  Electric Pipettor
17.Vacuum stabilization  Automatic Vacuum Standby Box	18.Sealing  Cylindrical Battery Sealing Machine	19.Formation  Cylinder Cell Forming Machine	20.Internal Resistance Testing  High Precision Battery Internal Resistance Instrument
21.Charge and Discharge Testing  5V6/12A Battery Test Equipment	 All-in-One 3C Testing System	22.High and Low Temperature Testing  High and Low Temperature Chamber	

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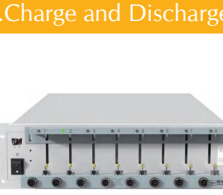


## NEWARE Pouch Cell Battery Winding Process Solution

01.Raw Material Weighing  Electronic Precision Analytical Balance	02.Vacuum Stirring  Small Planetary Vacuum Mixer	03.Viscosity Testing  Viscometer	04.Slurry Filtering  Iron Removal Filtration Machine for Slurry
05.Slurry Coating  Fully Automatic Experimental Coater	06.Vacuum Drying  Benchtop Vacuum Drying Oven	07.Electrode Roller Pressing  Electric Vertical Roller Machine	08.Electrode Tab Cutting  Electric Splitting Machine
09.Electrode Sheet Cross Cutting  Automatic Cross Cutting Machine	10.Welding of Tabs  Ultrasonic Metal Spot Welding Machine	11.Electrode Winding  Manual Winding Machine	12.Thermal Press Forming  Thermal Press Forming Machine
13.Aluminum-Plastic Film Shell Sealing  Semi-Automatic Aluminum-Plastic Film Forming Machine	14.Top-side Sealing  Top and Side Sealing Machine	15.Atmosphere Control  Single Sided Double Station Glove Box	16.Electrolyte Filling  Electric Pipettor
17.Vacuum stabilization  Automatic Vacuum Standby Box	18.Preliminary Sealing  Vacuum Preliminary Sealing Machine	19.Formation  Pouch Cell Hot Press and Formation Machine	20.Final Sealing  Secondary Vacuum Sealing Machine
21.Charge and Discharge Testing  5V6/12A High-Precision Battery Testing System	 All-in-One 3C Testing System	22.High and Low Temperature Testing  High and Low Temperature Chamber	

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## NEWARE Pouch Cell Battery stacking process solution

01.Raw Material Weighing  Electronic Precision Analytical Balance	02.Vacuum Stirring  Small Planetary Vacuum Mixer	03.Viscosity Testing  Viscometer	04.Slurry Filtering  Iron Removal Filtration Machine for Slurry
05.Slurry Coating  Fully Automatic Experimental Coater	06.Vacuum Drying  Benchtop Vacuum Drying Oven	07.Electrode Roller Pressing  Electric Vertical Roller Machine	08.Electrode Sheet Cross Cutting  Automatic Cross Cutting Machine
09.Electrode Die Cutting  Semi-Automatic Electrode Die Cutting Machine	10.Welding of Tabs  Ultrasonic Metal Spot Welding Machine	11.Stacking  Automatic Stacking Machine	12.Thermal Press Forming  Thermal Press Forming Machine
13.Aluminum-Plastic Film Shell Sealing  Semi-Automatic Aluminum-Plastic Film Forming Machine	14.Top-side Sealing  Top and Side Sealing Machine	15.Atmosphere Control  Single Sided Double Station Glove Box	16.Electrolyte Filling  Electric Pipettor
17.Vacuum stabilization  Automatic Vacuum Standby Box	18.Preliminary Sealing  Vacuum Preliminary Sealing Machine	19.Formation  Pouch Cell Hot Press and Formation Machine	20.Final Sealing  Secondary Vacuum Sealing Machine
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## NEWARE — General Laboratory Equipment

01.Safety Test Equipment  Battery Drop Tester	 Temperature-Controlled Battery Short-Circuit Tester	 Simulation of High Altitude Low Pressure Test Chamber	 Thermal Abuse Test	 Battery Heavy Material Impact Tester	 Battery Puncture and Crush Tester
02.Temperature and Humidity Handling  Multi-temperature Zone High-Temperature Tube Furnace	 Intelligent Box-Type Furnace	 Freeze Dryer	 Digital Constant Temperature Water Bath		
03.Synthesis and Reaction Equipments  Desktop Intelligent Reactor	 Optical Flow Synthesizer		 Ultrasonic Cleaning Machine		
			 Ultrapure Water Machine		
05.Separation Extraction  Desktop Low-Speed Centrifuge	 Vacuum Filtration Device		 Rotary Evaporator		
 Adjustable Digital Waste Liquid Reclaiming					
07.Mixing and Dispersion  Top-Mounted Stirrer	 Orbital Shaker		 Ball Mill		
 Solvent Treatment System NMP					
08.Pumps  Vacuum Pump	 Peristaltic Pump	 Oil-Free Air Compressor			

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## NEWARE — Analytical Instruments

01.Morphology and Structure Analysis  X-Ray Diffractometer	 Infrared Spectrophotometer	 UV-Visible Spectrophotometer	 Biological Microscope
02.Physical Property Analysis  Specific Surface Area and Pore Size Analyzer	 Nanoparticle Size and Zeta Potential Analyzer	 Conductivity Meter	 Four-Probe Sheet Resistance Tester
03.Supporting Devices  In-situ XRD Testing Cell for Batteries	 In-situ Raman Testing Cell for Batteries	 Electrochemical Infrared Spectroscopy Cell	 In Situ High-Temperature Electrochemical Catalysis System
04.Environmental Testing  Semi-Automatic Weighing System for Filter Membranes	 Soil ORP Meter	 Multiparameter Waste Quality Analyzer	 Portable Formaldehyde Air Detector
05.Mechanical Testing  Single (Double) Column Tensile Testing Machine	 Thermal Cycling Fatigue Testing Machine		
 Fourier Transform Infrared Spectrometer		 Pressure Monitoring Gas Chromatograph	

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