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GRS Corporation

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- Coin Cell Lab Line
- Coin Cell Lab Research Process & Equipment
- Battery / Super Capacitor / Lab Line - Electrode Preparation
- Battery Lab Line Pouch Cell / Supercapacitor Assemble
- Battery / Supercapacitor Tester
- Battery Material
- Other Lab Equipment



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LiFePO4



LiCoO2



LiMn2O4



LiMnCoO2



**Polyvinylidene Fluoride
(PVDF)**



NMP



Graphite



Li4Ti5O12



**Carboxymethyl
Cellulose (CMC)**



SBR



Acetylene Black



**Conductive Carbon
Black**



Electrolyte



Aluminum Foil



Copper Foil



**Aluminum Laminated
Film**



Battery Separator



Nickel Aluminum Tube





**High Temperature
Kapton Tape**



Hot Melt Adhesive



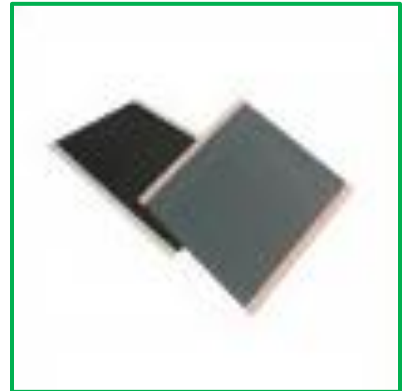
Strapping Tape



Teflon Tape



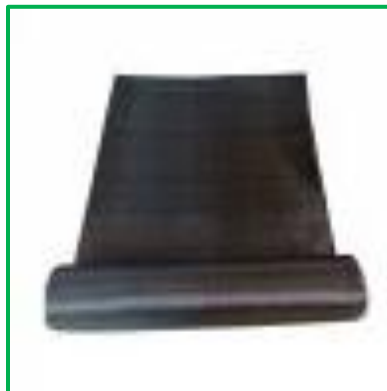
**Formed Aluminum
Laminated Film**



**Cathode Electrode
& Anode Electrode**



Activated Carbon



Carbon Coil



**Aluminum & Copper
Mesh**



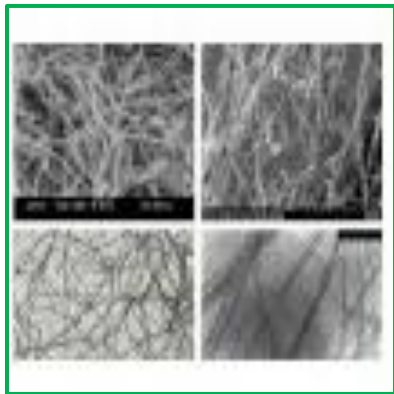
**Carbon Coated
Aluminum Foil & Copper
Foil**



Graphite Sheet



Nickel Aluminum Strip



Carbon Nano Tubes



Conductive Graphite



Graphene



Graphite Oxide



Copper Foam



**Nickel & Iron Nickel
Foam**



1B650 Battery Case



Air Can Cell Case



CR2032 Coin Cell Case



Lithium Metal Foil





Lithium Chips



Aluminum Bottles

VACUUM OVEN	PRODUCT DESCRIPTION																									
	<p>The vacuum oven is used for lithium battery materials, electrode and battery core vacuum drying.</p>																									
	<table border="1"> <thead> <tr> <th colspan="2" data-bbox="553 279 1485 331">SPECIFICATION</th> </tr> </thead> <tbody> <tr> <td data-bbox="553 342 829 378">Voltage</td> <td data-bbox="829 342 1485 378">AC 110/220V, 50/60HZ</td> </tr> <tr> <td data-bbox="553 378 829 413">Power</td> <td data-bbox="829 378 1485 413">500W</td> </tr> <tr> <td data-bbox="553 413 829 449">Temperature range</td> <td data-bbox="829 413 1485 449">RT+10-250℃</td> </tr> <tr> <td data-bbox="553 449 829 485">Temperature fluctuation</td> <td data-bbox="829 449 1485 485">±0.5℃</td> </tr> <tr> <td data-bbox="553 485 829 520">Vacuum degree</td> <td data-bbox="829 485 1485 520">-0.1MPa</td> </tr> <tr> <td data-bbox="553 520 829 556">Inner box size(L*W*H)</td> <td data-bbox="829 520 1485 556">300mm*300mm*270mm</td> </tr> <tr> <td data-bbox="553 556 829 592">Inner box material</td> <td data-bbox="829 556 1485 592">304 stainless steel</td> </tr> <tr> <td data-bbox="553 592 829 627">Outside shell material</td> <td data-bbox="829 592 1485 627">High quality cold-rolled steel plate electrostatic spray</td> </tr> <tr> <td data-bbox="553 627 829 663">Box door</td> <td data-bbox="829 627 1485 663">Toughened bulletproof double glass door</td> </tr> <tr> <td data-bbox="553 663 829 699">Safety device</td> <td data-bbox="829 663 1485 699">With over temperature protection, grounding etc.</td> </tr> <tr> <td data-bbox="553 699 829 735">Shelf</td> <td data-bbox="829 699 1485 735">1pc</td> </tr> <tr> <td data-bbox="553 735 829 739">Dimension(L*W*H)</td> <td data-bbox="829 735 1485 739">580mm*450mm*450mm</td> </tr> </tbody> </table>	SPECIFICATION		Voltage	AC 110/220V, 50/60HZ	Power	500W	Temperature range	RT+10-250℃	Temperature fluctuation	±0.5℃	Vacuum degree	-0.1MPa	Inner box size(L*W*H)	300mm*300mm*270mm	Inner box material	304 stainless steel	Outside shell material	High quality cold-rolled steel plate electrostatic spray	Box door	Toughened bulletproof double glass door	Safety device	With over temperature protection, grounding etc.	Shelf	1pc	Dimension(L*W*H)
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VACUUM MIXER	PRODUCT DESCRIPTION																									
	<p>This vacuum mixer is vacuum mixing, dispersion efficient equipment, it is suitable for battery electrode paste and various ceramic materials mixing, due to complete the process in vacuum station, fully implemented without air bubbles, improve the filling material and density.</p>																									
	<table border="1"> <thead> <tr> <th colspan="2" data-bbox="553 903 1485 955">SPECIFICATION</th> </tr> </thead> <tbody> <tr> <td data-bbox="553 966 829 1001">Voltage</td> <td data-bbox="829 966 1485 1001">AC 110/220V, 50/60HZ</td> </tr> <tr> <td data-bbox="553 1001 829 1037">Power</td> <td data-bbox="829 1001 1485 1037">150W</td> </tr> <tr> <td data-bbox="553 1037 829 1073">Stirring speed</td> <td data-bbox="829 1037 1485 1073">0 - 320 RPM; the inverter speed control</td> </tr> <tr> <td data-bbox="553 1073 829 1108">Vacuum</td> <td data-bbox="829 1073 1485 1108">≤-90 ~ -95Kpa</td> </tr> <tr> <td data-bbox="553 1108 829 1144">Accessories volume</td> <td data-bbox="829 1108 1485 1144">150ml stainless steel vacuum drum, can be customized</td> </tr> <tr> <td data-bbox="553 1144 829 1180">Mixing time</td> <td data-bbox="829 1144 1485 1180">0 - 9999 minutes (can be set)</td> </tr> <tr> <td data-bbox="553 1180 829 1215">Oscillation mode</td> <td data-bbox="829 1180 1485 1215">Infinitely adjustable-speed</td> </tr> <tr> <td data-bbox="553 1215 829 1251">Dimensions(L*W*H)</td> <td data-bbox="829 1215 1485 1251">330mm*310mm*510mm</td> </tr> <tr> <td data-bbox="553 1251 829 1287">Weight</td> <td data-bbox="829 1251 1485 1287">20kg</td> </tr> </tbody> </table>	SPECIFICATION		Voltage	AC 110/220V, 50/60HZ	Power	150W	Stirring speed	0 - 320 RPM; the inverter speed control	Vacuum	≤-90 ~ -95Kpa	Accessories volume	150ml stainless steel vacuum drum, can be customized	Mixing time	0 - 9999 minutes (can be set)	Oscillation mode	Infinitely adjustable-speed	Dimensions(L*W*H)	330mm*310mm*510mm	Weight	20kg					
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VACUUM PLANETARY MIXER	PRODUCT DESCRIPTION																									
	<p>It is one high efficiency equipment with vacuum molding and dispersion function, suitable for the battery lab research of anode and cathode electrode slurry mixing process, as well as for the powdered and ceramic materials mixing.</p>																									
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<p>VACUUM MIXER</p>	<p>PRODUCT DESCRIPTION</p>																				
	<p>The film coating machine with dryer is used for varies kinds of materials coating. It is supplied with Internal vacuum pump and heating system, with a precision heating temperature upto 200°C.</p> <p>SPECIFICATION</p> <table border="1"> <tr> <td>Voltage</td> <td>AC 110/220V, 50/60HZ</td> </tr> <tr> <td>Power</td> <td>650W</td> </tr> <tr> <td>Coating speed</td> <td>0-100mm/s, step-less transmission</td> </tr> <tr> <td>Accuracy</td> <td>10mm/sec</td> </tr> <tr> <td>Stroke length</td> <td>10 - 250 mm adjustable by using adjustable position switch</td> </tr> <tr> <td>Platform</td> <td>Aluminum alloy flat vacuum chuck</td> </tr> <tr> <td>Slicker</td> <td>Width 0-150mm ; adjustable range 0.01-3.5mm</td> </tr> <tr> <td>Heating dry system</td> <td>RT-200°C, digital temperature control accuracy ±1°C</td> </tr> <tr> <td>Dimension (L*W*H)</td> <td>500mm*350mm*320mm</td> </tr> <tr> <td>Weight</td> <td>42kg</td> </tr> </table>	Voltage	AC 110/220V, 50/60HZ	Power	650W	Coating speed	0-100mm/s, step-less transmission	Accuracy	10mm/sec	Stroke length	10 - 250 mm adjustable by using adjustable position switch	Platform	Aluminum alloy flat vacuum chuck	Slicker	Width 0-150mm ; adjustable range 0.01-3.5mm	Heating dry system	RT-200°C, digital temperature control accuracy ±1°C	Dimension (L*W*H)	500mm*350mm*320mm	Weight	42kg
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<p>ELECTRIC ROLLER PRESS MACHINE</p>	<p>PRODUCT DESCRIPTION</p>																				
	<p>This is a compact precision electric rolling press machine. It has dual rollers and dual grade micrometer. It is an ideal rolling press for adjusting thickness and increasing active material density of the electrode in Li-ion batteries research after coating and drying.</p> <p>SPECIFICATION</p> <table border="1"> <tr> <td>Voltage</td> <td>AC 110/220V, 50/60HZ</td> </tr> <tr> <td>Power</td> <td>120W</td> </tr> <tr> <td>Roller dimension</td> <td>96mm(Dia.) x 100mm(W)</td> </tr> <tr> <td>Roller material</td> <td>Hardness HRC62; surface finish >0.8</td> </tr> <tr> <td>Roller press accuracy</td> <td>≤±0.005</td> </tr> <tr> <td>Roller press thickness</td> <td>0-2mm adjusted with dial gauge</td> </tr> <tr> <td>Roller press width</td> <td>Max 100mm</td> </tr> <tr> <td>Roller press speed</td> <td>0-40mm/s adjustable</td> </tr> <tr> <td>Dimension(L*W*H)</td> <td>385mm*245mm*355mm</td> </tr> <tr> <td>Weight</td> <td>55kg</td> </tr> </table>	Voltage	AC 110/220V, 50/60HZ	Power	120W	Roller dimension	96mm(Dia.) x 100mm(W)	Roller material	Hardness HRC62; surface finish >0.8	Roller press accuracy	≤±0.005	Roller press thickness	0-2mm adjusted with dial gauge	Roller press width	Max 100mm	Roller press speed	0-40mm/s adjustable	Dimension(L*W*H)	385mm*245mm*355mm	Weight	55kg
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<p>HOT ROLLER PRESS MACHINE</p>	<p>PRODUCT DESCRIPTION</p>																				
	<p>This is a compact hot rolling press machine mainly serves for pressing samples in the lab or other applications in the material research especially for increasing active material density of the electrode in Li-ion batteries research after coating.</p> <p>SPECIFICATION</p> <table border="1"> <tr> <td>Voltage</td> <td>AC 110/220V, 50/60HZ</td> </tr> <tr> <td>Power</td> <td>800W</td> </tr> <tr> <td>Roller temperature</td> <td>RT-130, adjustable and digital display</td> </tr> <tr> <td>Roller diameter</td> <td>2-ϕ96mm</td> </tr> <tr> <td>Roller surface</td> <td>Hardness HRC62; surface finish >0.8</td> </tr> <tr> <td>Roller press thickness</td> <td>0-2mm, adjustable</td> </tr> <tr> <td>Working speed</td> <td>0-40mm/s</td> </tr> <tr> <td>Roller press width</td> <td>Max 100mm</td> </tr> <tr> <td>Dimension (L*W*H)</td> <td>500mm*220mm*320mm</td> </tr> <tr> <td>Weight</td> <td>55kg</td> </tr> </table>	Voltage	AC 110/220V, 50/60HZ	Power	800W	Roller temperature	RT-130, adjustable and digital display	Roller diameter	2- ϕ 96mm	Roller surface	Hardness HRC62; surface finish >0.8	Roller press thickness	0-2mm, adjustable	Working speed	0-40mm/s	Roller press width	Max 100mm	Dimension (L*W*H)	500mm*220mm*320mm	Weight	55kg
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<p>HYDRAULIC PRESS MACHINE</p>	<p>PRODUCT DESCRIPTION</p>																				
	<p>It is a desktop manual pressing machine for materials / chemistry research laboratories to prepare compound ceramic sample.</p> <p>SPECIFICATION</p> <table border="1"> <tr> <td>Press die size</td> <td>Diameter 50mm, customized</td> </tr> <tr> <td>Press stroke</td> <td>30mm</td> </tr> <tr> <td>Rocker pressure</td> <td><6kg</td> </tr> <tr> <td>Max pressure</td> <td>200kg/cm²</td> </tr> <tr> <td>Working pressure</td> <td>80-100kg/cm²</td> </tr> <tr> <td>Dimension(L*W*H)</td> <td>232mm*165mm*320mm</td> </tr> <tr> <td>Weight</td> <td>28kg</td> </tr> </table>	Press die size	Diameter 50mm, customized	Press stroke	30mm	Rocker pressure	<6kg	Max pressure	200kg/cm ²	Working pressure	80-100kg/cm ²	Dimension(L*W*H)	232mm*165mm*320mm	Weight	28kg						
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<p>ELECTRODE PUNCHING MACHINE</p>	<p>PRODUCT DESCRIPTION</p>																				
	<p>The coin cell disc cutter is used for coin cell electrode punching with customized cutting die. The resulting discs can be used as electrode/separator discs of split test cell and coin cell for battery researchers.</p> <p>SPECIFICATION</p> <table border="1"> <tr> <td>Operating</td> <td>Manual</td> </tr> <tr> <td>Punching size</td> <td>ϕ8-24mm can be chosen</td> </tr> <tr> <td>Punching stroke</td> <td>25mm</td> </tr> <tr> <td>Punching thickness</td> <td>0.005-0.5mm electrode and separator</td> </tr> <tr> <td>Dimension(L*W*H)</td> <td>110mm*150mm*235mm</td> </tr> <tr> <td>Weight</td> <td>6kg</td> </tr> </table>	Operating	Manual	Punching size	ϕ 8-24mm can be chosen	Punching stroke	25mm	Punching thickness	0.005-0.5mm electrode and separator	Dimension(L*W*H)	110mm*150mm*235mm	Weight	6kg								
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HYDRAULIC COMPILING MACHINE	PRODUCT DESCRIPTION		
	<p>Coin cell crimper is a newly designed coin cell sealing machine with lighter weight. It can also be used for disassemble purpose with disassemble die.</p>		
	SPECIFICATION		
Standard crimping Die	One set of crimping or disassemble die for CR2032, CR2025, and CR2016 or CR2325, CR2450, AG3, AG5		
Structure	Heavy duty steel platform		
Pressure	Max. 8 metric tons hydraulic pump with automatic pressure relief Max.200kg/cm2 on CR20XX series coin cell		
Dimension	228mm*176mm*310mm		
Weight	25kg		
BATTERY SPLIT TEST CELL	PRODUCT DESCRIPTION		
	<p>The split test cell is used for rechargeable battery and battery electrode materials research.</p>		
	SPECIFICATION		
Model	TOB-EQ-STC	TOB-3ESTC15	
Structure	Full stainless steel		
Electrode thickness	Max.6mm	Accept various thicknesses	
Optional	10, 12, 15, 19, 20, and 24 mm diameter customized		
COATING DEVICE	PRODUCT DESCRIPTION		
	<p>Multi-groove coating device is designed for use on a flat substrate coating uniformly paint, adhesives and similar products.</p>		
	SPECIFICATION		
<p>The effective coating width:</p>			
<p>TOB-ZBQ206 universal type 80mm (coating device total length 100mm)</p>			
<p>TOB-ZBQ205 lengthened type 160mm (coating device total length 190mm)</p>			
Universal Type	Thickness	Lengthened type	Thickness
TOB-ZBQ206/1	5μm,10μm,15μm,20μm	TOB-ZBQ205/1	5μm,10μm,15μm,20μm
TOB-ZBQ206/2	25μm,50μm,75μm,100μm	TOB-ZBQ205/2	25μm,50μm,75μm,100μm
TOB-ZBQ206/3	50μm,100μm,150μm,200μm	TOB-ZBQ205/3	50μm,100μm,150μm,200μm
TOB-ZBQ206/4	30μm,60μm,90μm,120μm	TOB-ZBQ205/4	30μm,60μm,90μm,120μm
TOB-ZBQ206/5	100μm,200μm,300μm,400μm	TOB-ZBQ205/5	100μm,200μm,300μm,400μm
TOB-ZBQ206/6	50μm,75μm,100μm,150μm	TOB-ZBQ205/6	50μm,75μm,100μm,150μm
TOB-ZBQ206/7	100μm,150μm,200μm,250μm	TOB-ZBQ205/7	100μm,150μm,200μm,250μm
TOB-ZBQ206/8	250μm,500μm,750μm,1000μm	TOB-ZBQ205/8	250μm,500μm,750μm,1000μm



DOCTOR APPLICATOR	PRODUCT DESCRIPTION				
	<p>It is an excellent tool to make quality film for material research in laboratory to make ceramic tape casting, battery electrodes, and various coating at lower cost. Stainless steel knife blade with precision ground edge.</p>				
	SPECIFICATION				
Model	TOB-KTQ-100	TOB-KTQ-180S	TOB-KTQ-150WA	TOB-KTQ-150D	TOB-KTQ-150DA
Photo					
Feature	General type	With slurry guiding plate	Width adjustable	Double blades	Adjustable digital display
Material	Blade: 304 stainless steel; frame: aluminum alloy				
Accuracy	10 microns				
Thickness	0-3500um				
Width	50mm, 100mm, 150mm, 200mm, 250mm				

GLOVE BOX & SAFETY BOXES

Glovebox with Purification System

- High quality manufacturing ISO 9001:2008
- Leak test according to ISO 10648 2, Class 1
- Stainless steel 1.4301 (AISI 304)
- Different sizes for 2, 3, 4 gloves
- Modular design for high flexibility (expandable)
- HEPA H14 filters
- LED inside
- Front window in polycarbonate, easy to disassemble
- Leveling feet and solid base stand with castors



Gas Purifier X-Line

- Filter columns for removal of O₂ and H₂O
- Achievable values for O₂ and H₂O < 1ppm
- Fully automated purification and regeneration
- For gloveboxes up to 2, 6 m³
- X-Line (1 filter column)
- GS ECO-Safety Mode < 100 W for standard system
- Siemens PLC with 7" color touch screen
- Intuitive GS software
- Recording of values for O₂, H₂O and pressure for 5 days



Antechambers

- Standard antechambers in d = 400 mm and d = 150 mm
- Manual antechamber cycles
- Different antechamber sizes and shapes available



Accessories

- Solvent vapor removal
- Freezer up to - 40 °C
- Microscope
- Further individualized solutions available



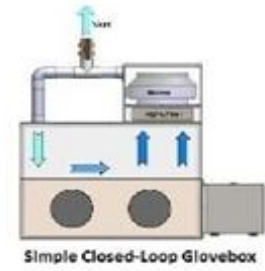
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Flushing Glove Box

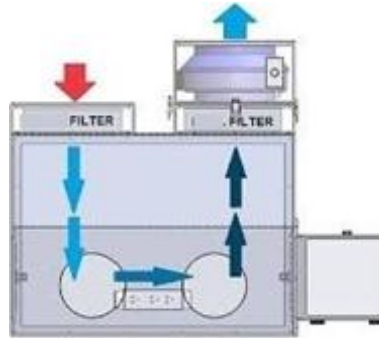


Negative Pressure Glove Box

Power Handling Glove Box



Safety Working Box



Mobile Desiccator

Mini Storage Desiccator



Mini Black Storage Desiccator

Vacuum Desiccator

Glove Box Accessories



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