Coin Cell Laboratory Equipment

Product Overview - Reference Configurations

Reference configurations compiled from current product documentation. Final specifications, layout and performance criteria are custom
Document generated from the SZ product database. Contact us for project-specific configuration.

SZ-ZKJB-500ML Vacuum Mixer

Model: SZ-ZKJB-500ML | Category: Slurry Preparation

A laboratory vacuum mixer for coin-cell research and small-batch material preparation. The current configuration includes a vacuum pump.

Reference specifications

- Configuration: Vacuum pump included
- Other specifications: Configured to order

Specifications are reference only and configured to order.

SZ-XZKJB-500ml Planetary Vacuum Mixer

Model: SZ-XZKJB-500ml | Category: Slurry Preparation

An efficient planetary vacuum mixing and dispersion machine for positive and negative electrode slurry preparation, powdered materials and ceramic research.

Reference specifications

- Power supply: AC220V
- Rated power: 200W
- Nominal volume: 500mL
- Mixing speed: Max. 600rpm
- Multi-stage operation: Three programmable speed stages
- Vacuum system: Built-in vacuum pump; vacuum degree -0.08MPa
- Mixing paddles: Dual-axis screw-type paddles as standard; other designs according to the vessel
- Vessel configuration: 500mL vessel included; additional vessel options to be confirmed
- Mixing time: 0–600min, programmable
- Overall dimensions: Approx. 330 × 320 × 570mm (L×W×H); source unit for the first dimension requires confirmation
- Weight: Approx. 35kg

Specifications are reference only and configured to order.

SZ-TMJ-200 Laboratory Film Coating Machine

Model: SZ-TMJ-200 | Category: Electrode Preparation

A laboratory film coating machine for continuous coating of positive and negative electrode sheets, small-scale experiments and functional film research.

Reference specifications

- Coating speed: 0–100mm/s
- Maximum stroke: 250mm
- Vacuum plate dimensions: 365 × 200 × 30mm (L×W×H)
- Applicator adjustment range: 0.02–2; unit not specified in the source document
- Film-thickness adjustment resolution: 0.01mm
- Applicator width: 0–150mm
- Heating and drying temperature: Ambient to 150°C
- Temperature control: Digital PID; accuracy ±1°C
- Power supply: 220V ±10%
- Power: 0.4kW
- Weight: 45kg
- Included items: One 150mm applicator, one VP-1 vacuum pump and one vacuum tube

Specifications are reference only and configured to order.

SZ-TMJ-200E Automatic Touchscreen Film Coating and Drying Machine

Model: SZ-TMJ-200E | Category: Electrode Preparation

An automatic coating and drying machine that uses vacuum adsorption to secure laboratory substrates for battery-material and functional-film research.

Reference specifications

- Coating-speed setting: Adjustable from 0–800; unit not specified in the source document
- Holding time: Programmable
- Stroke: Programmable
- Return waiting time: Programmable
- Drying temperature: Adjustable by temperature controller; range not provided
- Working modes: Automatic / manual
- Included configuration: Vacuum pump and digital micrometer applicator

Specifications are reference only and configured to order.

SZ-GYJ-100D Electric Heated Rolling Press

Model: SZ-GYJ-100D | Category: Electrode Preparation

An electric heated rolling press for laboratory electrode processing, supplied with a digital display in the current configuration.

Reference specifications

- Drive: Electric
- Heating: Included
- Display: Digital display included
- Other specifications: Configured to order

Specifications are reference only and configured to order.

SZ-GYJ-100B Electric Rolling Press

Model: SZ-GYJ-100B | Category: Electrode Preparation

A compact electric rolling press for reducing and densifying small lithium-battery electrode sheets and other experimental materials.

Reference specifications

- Roller dimensions: Φ100 × 200mm
- Roller surface hardness: HRC62
- Roller material: 9Cr2Mo steel
- Roller cylindricity: ≤±0.002mm
- Effective gap: 0–3mm, adjustable
- Working speed: 0–4m/min, stepless adjustment
- Maximum working width: 200mm
- Roller hardening depth: 5mm
- Maximum pressure: 5T
- Working power: 200W
- Voltage: AC220V / AC110V
- Overall dimensions: 700 × 320 × 320mm

Specifications are reference only and configured to order.

SZ-CPJ-20 Manual Electrode Punching Machine

Model: SZ-CPJ-20 | Category: Electrode Preparation

A manual punching machine for small-batch preparation of coin-cell electrodes and separators, with interchangeable dies for different laboratory sizes.

Reference specifications

- Applicable cells: AG, CR and LIR coin cells; electrodes for 2032, 2025 and 2016 formats
- Punching accuracy: ±0.015mm
- Material thickness: 0.01–0.5mm
- Die material: Tool steel, heat-treated to HRC62
- Overall dimensions: 310(H) × 120(W) × 220(D)mm
- Weight: Approx. 13kg
- Standard dies: Electrode and separator dies; Φ12 and Φ16; custom sizes available
- Glovebox compatibility: Fits through a glovebox antechamber with diameter above 230mm

Specifications are reference only and configured to order.

SZ-G1L Slurry Filtration System

Model: SZ-G1L | Category: Slurry Preparation

A compact vacuum filtration system for laboratory slurries, especially positive and negative electrode slurry preparation for lithium-battery research.

Reference specifications

- Power supply: Single-phase 100–240VAC ±10%
- Frequency: 50Hz / 60Hz
- Power: 30W
- Processing capacity: 600mL per batch
- Vacuum degree: -65kPa
- Filter mesh: Below 1000 mesh; source recommends 80–120 mesh for lithium-battery slurry
- Installation dimensions: Approx. L320 × W150 × H260mm
- Weight: 6kg

Specifications are reference only and configured to order.

SZ-AX-2000 Vacuum Mixer

Model: SZ-AX-2000 | Category: Slurry Preparation

A laboratory vacuum mixer for reducing bubbles during experimental material preparation, with selectable vessel volumes and materials.

Reference specifications

- Power supply: 220V/50Hz; 110V/60Hz
- Power: 150W
- Motor speed: 320rpm
- Mixing vessels: 50mL, 150mL and 500mL stainless-steel vessels; optional 500mL aluminum vessel
- Vacuum degree: 0.08–0.095MPa as stated in the source
- Oscillation: Stepless adjustment as stated in the source
- Mixing time: 0–99min, programmable
- Overall dimensions: 330 × 300 × 530mm
- Package dimensions: 400 × 380 × 620mm
- Weight: 28kg

Specifications are reference only and configured to order.

SZ-YYFK-20 Manual Hydraulic Coin Cell Crimping Machine

Model: SZ-YYFK-20 | Category: Cell Sealing

A manual hydraulic crimping machine for laboratory coin-cell assembly, material research and sample preparation, with a standard CR20-series die set.

Reference specifications

- Crimping pressure: 0–200kg/cm²
- Factory pressure setting: 80kg/cm²
- Hand-lever operating force: <6kg
- Overall dimensions: 215 × 176 × 310mm
- Net weight: Approx. 25kg
- Standard die: CR20 series
- Applicable cells: AG, BR, CR and LIR coin cells
- CR20-series compatibility: 2032, 2025, 2016 and 2430 formats as stated in the source

Specifications are reference only and configured to order.

SZ-YYFK-20E Electric Touchscreen Coin Cell Crimping Machine

Model: SZ-YYFK-20E | Category: Cell Sealing

An electric touchscreen crimping machine for coin-cell and capacitor research, small-batch trial production and interchangeable-die experiments.

Reference specifications

- Crimping pressure: Max. 1000kg as stated in the source; digitally adjustable
- Crimping stroke: 25mm
- Power supply: Single-phase 220VAC ±10%
- Frequency: 50Hz / 60Hz
- Power: 120W
- Overall dimensions: 255 × 200 × 540mm
- Weight: 26kg
- Die set: One set for CR2032, CR2025, CR2016 and other CR20-series coin cells

Specifications are reference only and configured to order.

SZ-QFKJ-20 Pneumatic Coin Cell Crimping Machine

Model: SZ-QFKJ-20 | Category: Cell Sealing

A pneumatic crimping machine for laboratory coin cells and capacitors, with optional dies for different formats and disassembly work.

Reference specifications

- Gas supply: 0.7–1.0MPa argon/nitrogen cylinder, or 0.7MPa compressed air
- Crimping pressure: Max. 1MPa; recommended 0.9MPa; accuracy within ±0.5% as stated in the source
- Crimping stroke: 20mm
- Standard die: CR20-series crimping die
- Optional disassembly dies: CR16, CR20, CR24 and CR30
- Air consumption: Approx. 490mL per crimping cycle
- Installation dimensions: L250 × W250 × H390mm
- Weight: Approx. 30kg
- Exhaust connection: External connection through KF40 or similar fittings

Specifications are reference only and configured to order.

SZ-YYFK-20D Coin Cell Disassembly Die Set

Model: SZ-YYFK-20D | Category: Cell Sealing

A disassembly die set installed on a hydraulic crimping machine for opening CR20-series coin cells and recovering internal material samples for research.

Reference specifications

- Typical disassembly gauge reading: 50–80kg/cm² as stated in the source
- Factory pressure setting: Approx. 100kg/cm²
- Maximum rating: 200kg/cm²; the source also states approx. 8 tons and requires technical confirmation
- Die set: One set for CR2032, CR2025, CR2016 and other CR20-series coin cells

Specifications are reference only and configured to order.

SZ-DZF-6020 Laboratory Vacuum Drying Oven

Model: SZ-DZF-6020 | Category: Drying

A laboratory vacuum drying oven for storage, heating, testing and drying in oxygen-reduced or inert-gas environments.

Reference specifications

- Inner-chamber material: 304 stainless steel
- Shelves: One stainless-steel mesh shelf
- Temperature range: RT+10 to 250°C
- Temperature fluctuation: ≤±0.5°C
- Temperature uniformity: ≤±2.5% as stated in the source
- Power supply: AC220V, 50Hz
- Power consumption: 500W
- Chamber dimensions: 300 × 300 × 275mm
- Overall dimensions: Approx. 720 × 480 × 550mm
- Vacuum degree: ≤133Pa

Specifications are reference only and configured to order.

SZ-FDO-25L 25L Forced-Air Drying Oven

Model: SZ-FDO-25L | Category: Drying

A 25L forced-air drying oven for laboratory material and electrode drying workflows. One vacuum pump is included in the confirmed package configuration.

Reference specifications

- Capacity: 25L
- Included item: One vacuum pump
- Other specifications: Configured to order

Specifications are reference only and configured to order.

SZ-TEC-15 Three-Electrode Research Cell

Model: SZ-TEC-15 | Category: Research Accessories

A three-electrode research cell supplied as part of the coin-cell laboratory research package for electrochemical testing workflows.

Reference specifications

- Listed dimension: Φ15; unit not specified in the source document
- Other specifications: Configured to order

Specifications are reference only and configured to order.

SZ-SCK-2E Split Coin Cell Research Kit

Model: SZ-SCK-2E | Category: Research Accessories

A two-electrode split coin-cell research kit for laboratory assembly, disassembly and electrochemical material evaluation.

Reference specifications

- Electrode configuration: Two electrodes
- Listed diameters: 19, 20 and 24; unit not specified in the source document
- Other specifications: Configured to order

Specifications are reference only and configured to order.

SZ-CAB-01 Coin Cell Assembly Box

Model: SZ-CAB-01 | Category: Research Accessories

A coin-cell assembly box supplied as a laboratory accessory for organized coin-cell preparation workflows.

Reference specifications

- Configuration: Configured to order
- Materials and dimensions: To be confirmed according to the selected setup

Specifications are reference only and configured to order.