

# Serving the World Through Expertise in Energy

Welcome to  
**TOYOSYSTEM**

## TOSCAT Series

Highly reliable Battery Test Systems  
for various Primary & Rechargeable Batteries and Packs

## TOSMAC Series

Battery manufacturing equipment in high efficiency and productivity  
Safety test facilities

## Battery Testing Service

>> Battery Performance Test Service (In Japan & USA)  
>> Battery Safety Test Service

## Pack Business

Supplying customized packs by designing the Circuits, Mold and Jigs.



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## TOSMAC SERIES

## BATTERY PROTOTYPE EQUIPMENT

TOYO SYSTEM is strongly supporting assembly process in battery development

### ELECTRODE PLATE ASSEMBLY PROCESS

#### Kneading

#### Coating

Coating Machine:  
TOSMAC-1000

#### Pressing

Roll Press Machine:  
TOSMAC-2000

#### Cutting

#### Vacuum Drying



### BATTERY ASSEMBLY PROCESS

#### Winding

Winding Machine:  
TOSMAC-3000

#### Welding Anode Tab

Welding Machine:  
TOSMAC-6000

#### Grooving

Grooving Machine:  
TOSMAC-4000

#### Injecting Electrolyte

#### Welding Cathode Tab

#### Sealing

Sealing Machine:  
TOSMAC-5000



### SAFETY EVALUATION

### BATTERY DISASSEMBLY RESEARCH



Safety Test Machine:  
TOSMAC-9000

- Nail penetration  
- Internal short-circuit

### EQUIPMENTS FOR COIN BATTERY

Equipment for coin Battery



- Electrode plate/separator clicking machine  
- Sealing machine for coin battery



Battery Disassembly Machine:  
TOSMAC-1000

- Shortening of disassembly times  
- Reduction in size and weight

### BATTERY MEMBER

Various Types of Battery Member



- For coin battery (CR2016/2032)  
- For cylinder battery (16050)



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