



BATTERY TECHNOLOGY SOURCE CO., LTD
www.btscl.com

FULLY AUTOMATIC HIGH SPEED MOTORCYCLE BATTERY ASSEMBLY LINE



HIGH SPEED MOTORCYCLE BATTERY ASSEMBLY LINE



HV-50AM (2X)
FULLY AUTO. SHORT CIRCUIT TEST, INTER-CELL WELD & WELD QUALITY CHECK MACHINE



HV-60AM (E)
FULLY AUTO. POLARITY CHECK, INTER-CELL WELD, S/C & WELD QUALITY CHECK MACHINE



HV-60AM (X)
FULLY AUTO. POLARITY CHECK, INTER-CELL WELD, S/C & WELD QUALITY CHECK MACHINE (WITH SERVO CONTROL)



IRT-10AM (X)
FULLY AUTO. WELD CONDITION CHECKING MACHINE



HM-10AM
FULLY AUTO. HEAT SEALING MACHINE



HM-10AM (X)
FULLY AUTO. HEAT SEALING MACHINE (QUICK MOLD CHANGE)



ATC-30AM (X)
FULLY AUTO. AIR LEAK TESTING & CODING MACHINE



AHS-10AM
FULLY AUTO. ALUMINUM FOIL TOP SEAL MACHINE



AHS-20AM (X)
FULLY AUTO. ALUMINUM FOIL TOP SEAL & SIDE SEAL MACHINE



TIG-10AM
FULLY AUTO. TIG WELDING MACHINE



BD-10AM
FULLY AUTO. BATTERY DUMPING MACHINE



BSP-10AM
FULLY AUTO. SCREEN PRINTING & CONTAINER ROTATOR MACHINE

PLATE MANUFACTURING MACHINES



PS-40 AM

FULLY AUTO. LUG BRUSHER MACHINE



PCS-20AH

FULLY AUTO. MULTIFUNCTION LEAD PARTS CASTING MACHINE



BGC-10

FULLY AUTO. GRID CASTING MACHINE



BSB-3S

FULLY AUTO. CAR BATTERY PLATE BRUSHING & SLITTING MACHINE



BIGO-10

INTER GAS OVEN NEGATIVE PLATES DRY CHARGE OVEN



BPP-10

FULLY AUTO. PLATES PASTING MACHINE



FDO-10

BATTERY PLATES HORIZONTAL FLASH DRYING OVEN



AHBF-10AM & BPD-10AM

FULLY AUTO. HOLE PUNCHING & DUMPING MACHINE (WITH CONTAINER FEEDING SYSTEM)



HEP-10AC

FULLY AUTO. PE SEPARATOR WRAPPING MACHINE



VGM-10M

SEMI-AUTO. AGM SEPARATOR WRAPPING MACHINE



PCS.20H

SEMI-AUTO. LEAD PARTS CASTING MACHINE



BFB-10C

SEMI-AUTO. 3 SIDES FRAME BRUSHING MACHINE

HIGH SPEED CAR BATTERY ASSEMBLY LINE



HPVT-40ACH
FULLY AUTO. ELECTRIC WELDING & SHORT TEST MACHINE



IRV-20ACX
FULLY AUTO. S/C TEST & WELD CONDITION CHECKING MACHINE



HM-20ACH
FULLY AUTO. HEAT SEALING MACHINE



ATC-20ACH
FULLY AUTO. LEAK TESTING & CODING MACHINE



TBP-20AC
FULLY AUTO. POST BURNING MACHINE



AHB-10AC
FULLY AUTO. FOIL SEALING & POST BRUSHING MACHINE



IRT-10AC
FULLY AUTO. WELD CONDITION CHECKING MACHINE



AH-10AC
FULLY AUTO. ALUMINUM FOIL SEALING MACHINE



AHB-10AC
FULLY AUTO. HEAT SEALING MACHINE (SERVO MOTOR CONTROL)



HMT-10CX
SEMI-AUTO. TOP COVER HEAT SEALING MACHINE



AH-10AC
SEMI-AUTO. AIR LEAK TESTING MACHINE



HM-10ACX
SEMI-AUTO. HEAT SEALING MACHINE

ACID FINISHING LINE



BCM-AF-20AC
FULLY AUTO. CAR BATTERY ACID FILLING MACHINE



BCM-AFL-20AC
FULLY AUTO. CAR BATTERY ACID LEVEL ADJUSTING MACHINE



HM-10CS
SEMI-AUTO. SECONDARY LID HEAT SEAL MACHINE



BWD-10AC
FULLY AUTO. CAR BATTERY WASHING & DRYING MACHINE



PB-20AC
FULLY AUTO. CAR BATTERY TERMINAL POST BRUSHING MACHINE



BHRD-1000A-AC
FULLY AUTO. CAR BATTERY HRD INSPECTION MACHINE



BHRD-1500 (2)AC
HIGH RATE DISCHARGE INSPECTION MACHINE



BL-20AC
FULLY AUTO. CAR BATTERY LABELING MACHINE



ABF-10MS (V)
SEMI-AUTO. VACUUM TYPE ACID FILLING MACHINE



BCF-8MC
BATTERY CASE FORMATION CHARGER MACHINE



BHRD-300RDS (AM)
FULLY AUTO. 4 FUNCTION BATTERY DISCHARGE INSPECTION MACHINE



ABF-10MS (X)
SEMI-AUTO. ACID BOTTLE FILLING MACHINE

LABORATORY AND TESTING EQUIPMENT



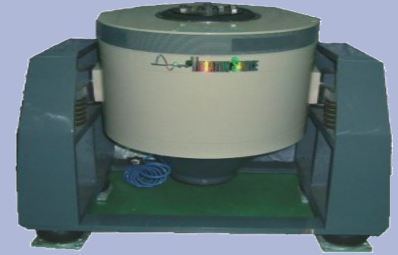
BATTERY TECHNOLOGY SOURCE CO., LTD.

HVT-100
HIGH VOLTAGE BATTERY SHORT
CIRCUIT TESTER



BATTERY TECHNOLOGY SOURCE CO., LTD.

VS-600VH
VIBRATION TESTING SYSTEM



VS-300VH
VIBRATION TESTING SYSTEM



BATTERY TECHNOLOGY SOURCE CO., LTD.

VS-5060M
REACTIVE TYPE VIBRATION TESTER



BATTERY TECHNOLOGY SOURCE CO., LTD.

BTS-LT 403T
LOW TEMPERATURE BOX



BATTERY TECHNOLOGY SOURCE CO., LTD.

NTHDR20/200
MULTI-FUNCTION DISCHARGE
TESTER



NT6CCDR20/50
MULTI-FUNCTION CHARGER AND
DISCHARGER



BATTERY TECHNOLOGY SOURCE CO., LTD.

BHRD-1000A-AC
AUTO. BATTERY HIGH RATE DIS-
CHARGE INSPECTION MACHINE



BATTERY TECHNOLOGY SOURCE CO., LTD.

BHRD-300RDS (AM)
CAPACITY TESTING DEVICE



NTCDR230/80BP-16CH-5C
CAPACITY TESTING DEVICE



NTCDR230-80-5C-16CH
MULTI-FUNCTION TESTING MCHINE
FOR SMALL BATTERIES



NTCDR-150-80-150-10CH
DICHARGE TEST MACHINE

OTHER MACHINES AND MATERIAL PARTS



BVS-300HV
ELECTRODYNAMIC VIBRATION
TESTER



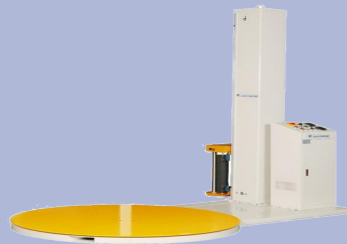
BV-5060
MECHANICAL TYPE VIBRATION
TESTER



BOP-10AM
FULLY AUTO. OVEN TUNNEL MA-
CHINE



CONTAINER PRINTING ASS. LINE
FULLY AUTO. BATTERY CONTAINER
HOLE PUNCHING & SCREEN PRINT-
ING ASSEMBLY LINE



WSV-1521 & 1821
VERTICAL WRAPPING MACHINES



BLT-40C
LOW TEMPERATURE BOX FOR BAT-
TERY QUALITY TEST LABORATORY



GLASS FIBER SEPARATOR



BCF-16MCP
CHARGER MACHINE FOR PLATES
FORMATION RECTIFIER



BATTERY TERMINAL BOLT & NUT



SCISSOR PALLET TABLE



PLASTIC INJECTION MOLD

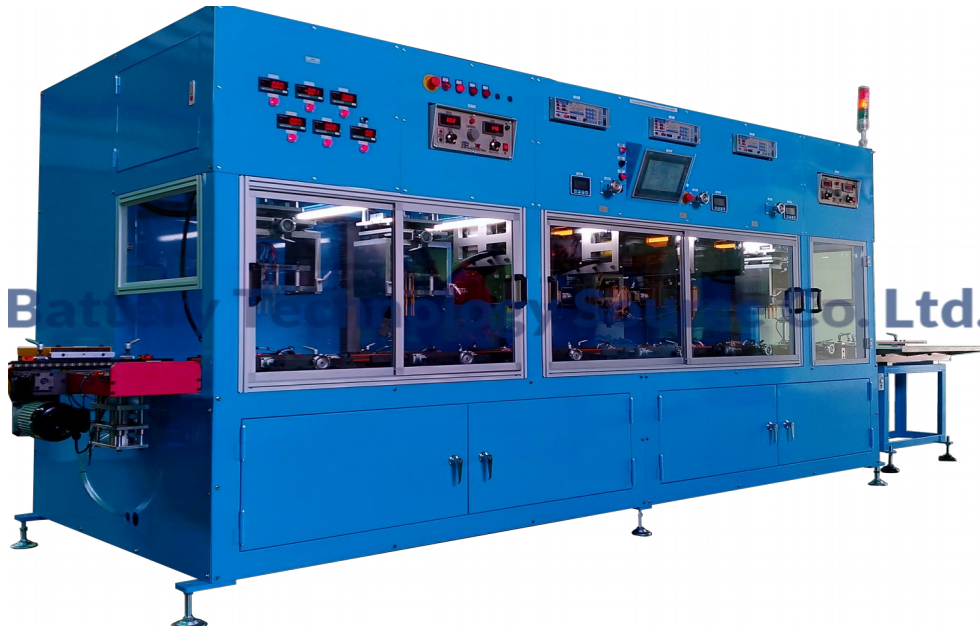


**CAR & MOTORCYCLE BATTERY
CONTAINER SET**



AUTO. POLARITY TEST, SHORT CIRCUIT TEST, INTER-CELL WELDING AND WELD QUALITY CHECK MACHINE

Model: HV-60AMX



Functions

This electric welder completes the inter-cell connection weld, short-circuit and weld quality test (internal resistance test).

Machine operation process

After the COS and plate insertion, the battery is conveyed to the polarity and short circuit test station, automatically positioned and stopped. If short circuit is detected, the machine will trigger the alarm, and the battery will be rejected; qualified batteries are delivered to the inter-cell welding station. If the welding process works abnormally, unqualified batteries will be rejected. If the welding condition is qualified, the batteries undergo another short test and weld quality (internal resistance) test before being delivered to the next station.

Features

- Suitable for use with all conventional and MF types of motorcycle batteries
- Touchscreen control panel
- 3 sets of welding heads, 50 KVA transformer, 5 sets of made in Japan welding controllers (a different model can be used at the customer's request), rejection station
- Servomotor controlled weld distance setting



- Auto-stop and auto-start (re-feeding) system
- Capacity: 200-300 pcs/h

Air/power consumption

- 1 or 3 phases, voltage and frequency according to the customers' specifications
- Power consumption:
 - Max.: 51 KW
 - Motor: 0,6 KW
- Compressed air consumption: 40 L/min a 6 kg/cm²

Machine outlook

- Dimensions: 3940 (L) × 1470 (W) × 1793 (H) mm
- Weight 2400 kg



AUTO. SHORT CIRCUIT TEST AND WELDING MACHINE

Model: HV-50AMX

Functions

This electric welder completes the inter-cell connection weld and short-circuit test.

Machine operation process

After the COS and plate insertion, the battery is conveyed to the short circuit test station, automatically positioned and stopped. If short circuit is detected, the machine will alarm, and the battery will be rejected; qualified batteries are delivered to the inter-cell welding station. If the welding process works abnormally, unqualified batteries will be rejected. If the welding condition is qualified, the batteries undergo another short test before being delivered to the next station.

Features

- Suitable for use with all conventional and MF types of motorcycle batteries
- Easy to set up touch panel control system.
- 5 sets of welding heads, 50 KVA transformer, 5 sets of made in Japan welding controllers (a different model can be used at the customer's request), rejection station
- Easily and accurately adjustable for working with different battery types
- Easy to maintain pneumatic cylinder
- Auto-stop and auto-start (re-feeding) system
- Maximum output voltage: 50 KVA (adjustable)
- Production capacity: 320-380 pcs/hour



Air/power consumption

- 1 or 3 phases, voltage and frequency according to the customers' specifications
- Compressed air consumption: 40 L/min at 6 kg/cm²

Machine outlook

- Dimension: approx. 2500 (L) × 1295 (W) × 1900 (H) mm
- Weight: approx. 1800 kg



AUTOMATIC WELD CONDITION CHECK MACHINE

Model: IRT-10AMX

Functions

After the ttp inter-cell welding is completed, this machine inspects the welding condition.

Machine operation process

After welding, the batteries will be automatically conveyed and positioned in this machine's working area. The resistance testing head will check the spot weld condition. If the result exceeds the set values, the machine will alarm and unfit products will be rejected; if qualified, the batteries will be sent to the next station.

Features

- Suitable for both traditional and MF motorcycle batteries
- Easily changeable test molds
- Auto-stop and auto-start system
- Touch panel control system
- Rejection station for unfit items
- Testing values and pressure can be set and locked automatically.
- The pressure torque of each shear test head can be set digitally to match the customer's standard.
- Capacity: 320-380 pcs/h

Air/power consumption

- 0.6 KW, 1 or 3 phases, voltage and frequency according to the customers' specifications
- Compressed air: 55 nl/min at 6 kg/cm²

Machine outlook

- Dimension: Approx. 1060 (L) × 1035 (W) × 1850 (H) mm
- Weight: Approx. 500 kg





AUTOMATIC HEAT SEALING MACHINE

Model: HM-10AMX

Functions

After completing the inter-cell welding and undergoing weld quality check, this machine will use heat to seal the battery's cover and container together.

Machine operation process

The operator places the cover on the container and puts it on the conveyor. At the heat melting station, it will be immobilized and the machine will melt the cover and the container's borders, press them and seal them together.

Features

- Suitable for use with all types of MCB
- Touch panel control system, easy to setup and modify.
- Guide bar design allows to position the cover accurately; easily changeable tooling; mechanical clamp and vacuum suction.
- Max. heating space: 206 (L) × 92 (W) × 165 (H) mm; min.: 68.5 × 46 × 72 mm
- Heater pipe dysfunction or insufficient pressure will cause the machine to stop.
- If the heater hasn't reached the desired temperature, the auto-start system won't work and the machine will trigger the alarm (it can still be started manually).
- Temperature range: 0-600°C
- Capacity: 320 pcs/hour at 12 V; 360 pcs/hour at 6 V

Air/power consumption

- 8 KW, 1 or 3 phases, voltage and frequency according to the customers' specs.
- Compressed air: 290 L/min at 6 kg/10 cm²

Machine outlook

- Dimension: approx. 1080 (L) × 1340 (W) × 1800 (H) mm
- Weight: approx. 750 kg





AUTOMATIC TIG WELDING MACHINE

Model: TIG-10AMX

Functions

This machine is used for welding the positive and negative poles of motorcycle batteries.

Machine operation process

The machine will weld the poles of the batteries, which will be delivered by conveyor after the heat sealing process. The welding head will automatically touch the positive pole and complete the welding, after which the battery will come down automatically. If the welding is rejected, the machine will stop automatically, while qualified batteries will proceed to the next station.

Features

- Easy and convenient HMI system
- Conveyor belt designed to protect the batteries, avoiding damage and scratches during transport.
- Auto-stop (no feeding) and auto-start (re-feeding) system
- Capacity: 300-360 pcs/h

Air/power consumption

- 1 or 3 phases, voltage and frequency according to the customer's specifications
- Power consumption: 15.1 KW
- Compressed air: 9.52 NI/min at 6kg/cm²

Machine outlook

- Dimension: approx. 1,365 (L) × 977 (W) × 1,578 (H) mm
- Weight: approx. 380 kg





AUTOMATIC LEAK-TESTING AND CODING MACHINE

Model: ATC-30AMX

Functions

Tests the battery cover and container after heat sealing to make sure they are airtight. If no anomalies are detected, it proceeds to engrave the manufacturing code on each battery.

Machine operation process

Once the battery has been conveyed to this machine, the testing device lowers down to suck air through the holes on the cover for testing leakages. If it is not airtight, the machine will trigger the alarm and unqualified batteries will be rejected; if qualified, the batteries will be sent to the next station, where the code will be stamped/engraved.

Features

- Touch panel control system (EURO standard), easy to set up and modify.
- Easily changeable and adjustable mold
- State of the art guide rail design, preventing damage to the batteries' surface.
- It can test inter-cell leaking, perform precise or normal tests and suck or blow air according to the customer's needs.
- If air pressure is insufficient, the machine will go into auto-stop and trigger the alarm.
- Modifiable manufacturing code (standard: 6 characters)
- Capacity: 320-380 pcs/hr (12 V battery)

Air/power consumption

- 1 or 3 phases, voltage and frequency according to the customers' specifications
- Power consumption: 0.6 KW
- Compressed air: 20L/min at 6 kg/10 cm²

Machine outlook

- Dimension: approx. 1700 (L) × 1035 (W) × 1900 (H) mm
- Weight: approx. 500 kg





AUTOMATIC ALUMINUM FOIL TOP SEALING AND SIDE SEALING MACHINE Model: AHS-20AM(X)

Functions

After the air leak testing and coding process, the dry charged battery vent hole must be sealed with aluminum foil to avoid oxidation, which would affect the battery's quality. The machine seals the unfixed aluminum foil on the top and side of the battery.



Machine operation process

After the air leak testing and coding process, the battery conveyed to the working area of this machine. It applies heat automatically to seal the aluminum foil on the vent hole and side of the battery and cut off the foil.

Features

- Easy changeable mold
- Capacity: 240-280 pieces/hour at 12 V
- Touch panel control system, easy to setup and modify.
- State of the art guide rail to avoid damage to the battery surface
- If air pressure is insufficient, the machine will go into auto-stop and trigger the alarm.

Air/power consumption

- 1 or 3 phases, voltage and frequency according to the customer's specifications
- Power consumption: 2.3 KW
- Air consumption: 21.2 NI/min at 6 kg/cm²

Machine outlook

- Dimension: approx. 2,265 (L) × 750 (W) × 1,470 (H) mm
- Weight: approx. 500 kg