



# BT2500A COS MACHINE

## EXPERT EDGE IN CAST ON STRAP

Versions available for flooded, AGM or dual processing. Up to 4,5 batteries a minute capacity with robotic element loading system. Highly flexible for various layout requirements.

## LOOK BEYOND RUDIMENTAL EXCEL IN ASSEMBLY

Flexible, durable and cost efficient products brought you with remarkable performances. Brilliant designs and precision crafting in machining culminate in expertly fabricated machineries.



FAST  
DELIVERY



EXPERT  
SOURCES



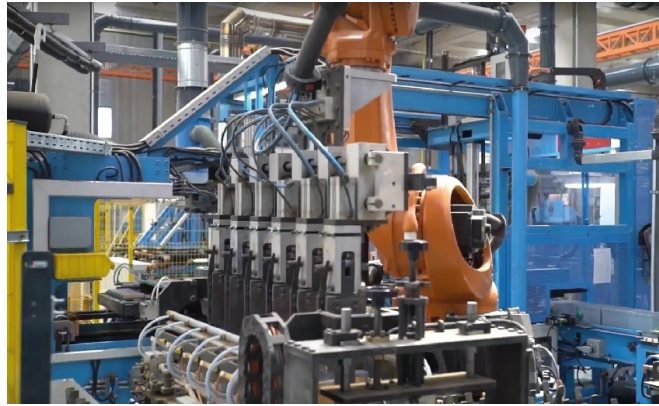
PREMIUM  
SERVICES



# COS MACHINE

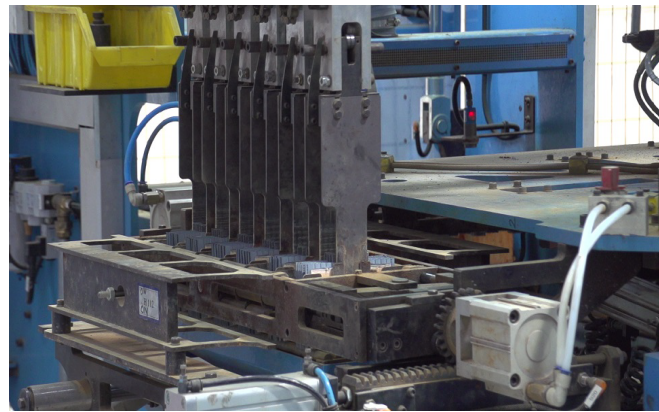
BT2500A is an highly flexible COS machine incorporated with some efficiency enhancing features. Versions available for flooded, AGM or dual processing. Up to 4,5 batteries a minute capacity with robotic element loading system. Highly flexible for various layout requirements.

01



Robotic element handling and loading robot capable to handle two enveloping machine feeding. Automatic reverse polarity loading, fast operation, flexible layout and quick type changeover ensure highest efficiency.

02



Easy and group loading setup via recipe based robotic handling. Universal jigbox design covering wide range of battery sizes. Efficient double side vibration, auto jigbox release stop with fast changover facility, horizontal alignment with dedicated tool, dedicated lug aligner with precision alignment capability. jigbox rotation unit integrated at the loading station. Loading station incorporated with element detection system.

03



Lug brushing powered by an individual motor, flux brushing unit with acid proof tray and scrape brushes. Each brushing unit is integrated with rotation control. Drive units are covered by stainless steel guards.

04



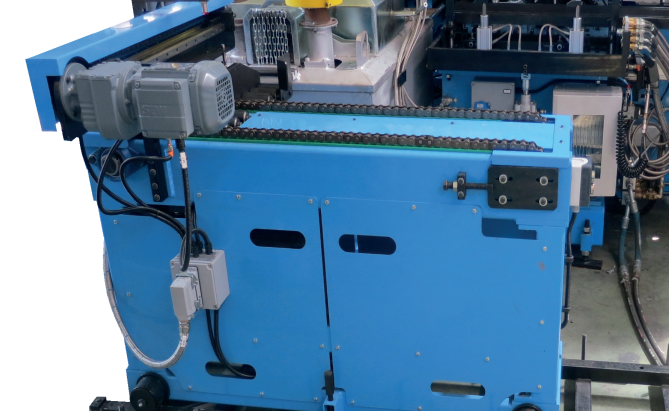
COS mould with highest casting consistency and durability. Hot tested mould made by high quality & certificated material. Efficient cooling performance and lead saving design. Multi zone mould temperature control. Pnuematic double dip unit with easy and quick setting. Easy and quick mould fitting. Standard mould preheating station. Casted part ejection control. Special algorithm for rapid casting cycle.

05



Servo driven unloading and boxing system. Quick and easy changover features with dedicated boxing jig. Enhanced gripper block guides for durable operation.

06



Standard machines comes with an ingot feeder and mould preheating system.

## SOME OF OPTIONAL FEATURES:

- \* Mitsubishi PLC & HMI
- \* Rotary element loading system
- \* Escape system for element pickup
- \* Flux drying
- \* Tin bath station
- \* Chiller

## TECHNICAL DATA

Electric: 220/380V - 3P -50Hz (or as required)  
Power: 88 Kva  
Compressed Air: 9 cbm/h @ 6Bar (87 psi)  
Water: 30 L/min - 4Bar (58 psi) - 20°C Soft Water  
Operator: None permanent  
PLC: Siemens S7  
HMI: Siemens (x2)  
Pneumatics: Festo / SMC  
AC Motors: SEW Eurodrive  
Servomotors: SEW Eurodrive  
Control Voltage: 24V DC

Ventilation: 11.000 cbm/h  
Plate Width: 100-160mm  
Plate Height (w/out lug): 95-150mm  
Lug Height: 15-20mm  
Lug Height Tolerance: 0,5mm  
Group Tickness: 18-55mm  
Free Lug Height: 9mm (min)  
Lug Requirement: Oxide free at least 5mm from top  
Battery Range: JISB20-D31 or DIN L0-L5  
Typical Changeover: 20 min.  
Casting Tolerance: less than 2%

No of Cooling Lines: Four  
No of Mould Temperature Control Zone: Seven  
Temperature Control By: Analogue Input  
Mode of Temperature Control: PID  
Mould Heaters: Split sheath type.  
Heater Citrcuit: Current controlled  
Capacity: Up to 4,5 batteries / min.  
Typical Weight: 8.500 Kgs

# BT2500A