



## Auto C.O.S. Machine

Heavy duty rugged frame for precision machine operation throughout longer service life. Powder coat painting to ensure higher corrosion resistance. Precision machined machine bottom frame, lower table and rotary table guarantees reliable and precision machine operation.

Heavy duty gearbox drive for fast and smooth rotary table indexing. Central column precision machined and assembled with heavy duty thrust bearing for user friendly and smooth operation. Heavy duty pneumatic cylinder for table lifting integrated with check valve for safe operation.

### QUICK OUTLOOK

- Compact design
- Perfect moulding and fusion quality
- Less than 2% casting variation
- User friendly operation
- Up to four batteries a minute
- Comprehensive technical documentation and efficient after-sales support

Auto loader with universal pneumatic grippers with motorized pick up and jigbox load height setting. Pneumatic pitch-in and pitch out motion for the gripper blocks. Motorized element feed conveyor with lug bending, and element alignment units.

Lug aligner dedicated to customer specified lug center with easy removal and fitting facility. Special design vibration table not causing dust buildup on the datum plate. Double heavy duty pneumatic vibration unit to ensure optimum element alignment. Easy removal side alignment tools. Fast and easy jigbox release stop unit. Dust collecting facilities provided for the vibration table.

Pneumatic jigbox rotation unit. Motorized lug brushing, motorized flux brushing unit. Motorized brush carriage. Speed and position control for carriage drive.

### BASIC FEATURES

- Compact design
- Quick changeover features
- Servo drive boxing system for
- Universal jigbox design
- Efficient element preparation

Mould double dipping for better lug fusion especially thicker AGM plates. Easy and fast mould fixing and setting with centralized pneumatic mould fixing system.

Automatic unloading and boxing unit with easy and fast changeover features. Servo controlled setting for recipe based battery type changeover. Boxing conveyor and boxing unit with reliable boxing facilitating guides. Double step boxing design for flooded battery types. Battery tilting station at the boxing conveyor.

Mould cooling is controlled with four individual flow control valves each equipped with flowmeter for precision mould temperature control. Up to seven temperature control zones provided for mould.



CAD designed and CAM manufactured mould made of high quality material with special treatment to ensure longer service life. Mould can be supplied with water cooled inserts depending customer request and design availability.

## OPTIONS

- Mitsubishi PLC and HMI
- Flux drying unit
- Motorized mould dip
- Gas heated lead pot
- Mould preheating
- Sprue brushing
- Tool set
- Spare part set
- AGM processing
- Chiller

Lead pump is designed with triple valve system and precision metering block to guarantee highest precision metering accuracy with efficient performance.

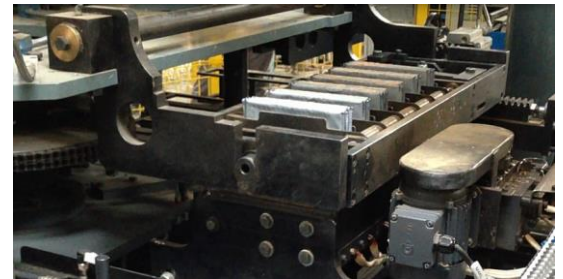
## AVAILABLE SERVICES

- Full English documentation in hard and soft copy
- Installation & commissioning
- Remote access PLC support
- Phone support
- On-site service support
- 12 month warranty

Standard machine is supplied with electric heating pot with 1000 kg capacity. Pot is supplied with thermal insulation and top cover. Automatic ingot conveyor is part of standard supply.

Machine is supplied with frame integrated suction collection tower for better space utilization. Machine is supplied also with upper fume suction hood connected to mould zone exhaust hood.

Machine is supplied with Siemens S7 plc and HMI unit for user friendly operation, easy data tracing.



## TECHNICAL DATA

Battery Types	:	All automotive batteries (typically from B19 to D31 or DIN L0 to DIN L5)
Capacity	:	Up to four batteries a minute
PLC	:	Siemens S7
HMI	:	Siemens TP177 series
Pneumatic	:	Festo / SMC
Electric	:	220/380V – 3 Phases – 50/60 Hz.
Installed Power	:	74 Kw (with electric heated pot)
Compressed Air	:	6 Bar – 9 cbm/hr (clean and dry air)
Cooling Water	:	30 L/min - 15°C – 4 Bar
Typical Weight	:	8.200 Kg (uncrated)

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