

MINI AUTO CHANGER

CBH's automatic battery changer, the Mini Auto Changer (MAC) uses a fully integrated PLC control system providing precise control and responsiveness for faster battery changes, setting the industry standard in automated battery changing.

Developed for use with Automated Guided Vehicles (AGVs), the MAC eliminates the need for any human intervention when changing batteries, adding value to the fully automated proposition. The MAC has a 15 year pedigree and is in use in a variety of industrial applications across the globe.

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Features and Benefits

- Fully Programmable

Logic-based AC power system gives the system precise control and responsiveness for faster changes

- Detailed Self-diagnostics and logging Allow significant decreases in both downtime and servicing, maximizing production times

- Complete user Compartment & Controls

Allow for manual over-ride and operation if required

- Intelligent interface with AGV

AGV & changing systems are entirely customizable to suit your automation needs

- Integrated safety systems

Every MAC system has a built in emergency override & quick access stop button

- Low cost automation

Available as full or semi-automated systems for small battery fleets

- Single level roll out height applications For more compact operations

- Maximum efficiency with in-cart battery staging

- Ultra-low maintenance Servicing required every 300 hours

- Acid proof powder coating

Protects your investment keeping it looking good and maximizing service life

Available Options

OPTIONS

Systems can be designed with a fixed roll-off height anywhere between 178mm - 660mm (7" - 26")

MAC can be customized to work with conventional material handling equipment - please contact us for details

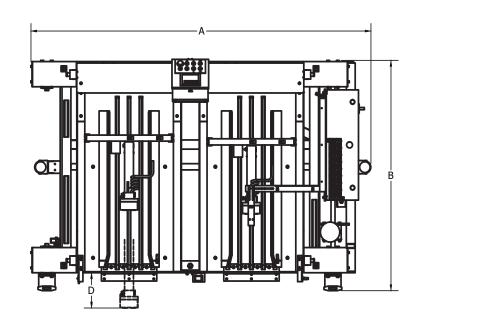
GENERAL SPECIFICATIONS

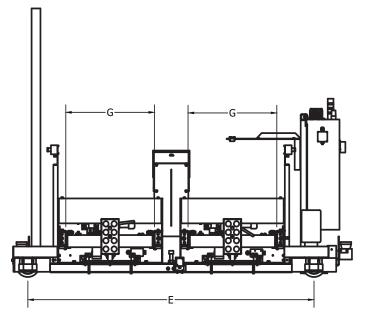
MODEL NO.		MAC2-2-30-SG		
1	Tavel Speed (meters per minute)	0-175 MPM	0-53.3 MPM	
2	Machine Duty Cycle (per year)	5,500 hrs		
3a	Input Voltage / Frequency / Max Current Drawn	415 V / 50 Hz / 9.5 A		
3b	Input Voltage / Frequency / Max Current Drawn	460 V / 60 Hz / 9.5 A		
3c	Input Voltage / Frequency / Max Current Drawn	575 V / 60 Hz / 9.5 A		
4	Control Voltage	110 VAC / 24 VDC		
5	Draw Bar Pull Magnet	1,800 lbs / 817 kg		
6	Magnet Break Off Point (1/4"/3/16"/1/8" battery shell thickness)	1,800 / 1,200	1,800 / 1,200 / 700 lbs	
7	Urethane Wheel (Dia x Width)	8" x 4" / 203 x 102 mm		
8	Capacity (Fully Loaded)	8,000 lbs / 3629 kg		
9	Service Weight (Empty)	3,400 lbs / 1543		

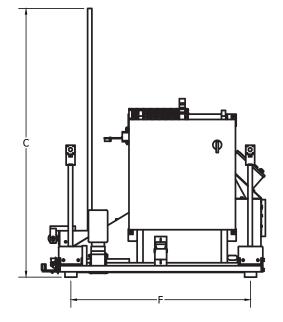
DIMENSIONAL DATA

MODEL NO.		MAC2-2-30-SG		
А	Overall Length	103 in	2616 mm	
В	Overall Width	80.25 in	2038 mm	
С	Overall Height	90.25 in	2292 mm	
D	Maximum Magnet Arm Reach	Customize	Customized to suit	
E	Wheel Base	90.75 in	2305 mm	
F	Centreline of Drive Wheels	62 in	1575 mm	
G	Battery Compartment Overall Width	30 in	762 mm	
Ga	Maximum Battery Length	Customize	Customized to suit	
Gb	Maximum Battery Width	28 in	711 mm	
Gc	Maximum Battery Height	32 in	813 mm	
Gd	Minimum Battery Width	6 in	152 mm	
Ge	Minimum Battery Height	13 in	330 mm	
Gf	Floor Level Variance (+ or - in 10 ft fully customizable)	0.25 in	6 mm	

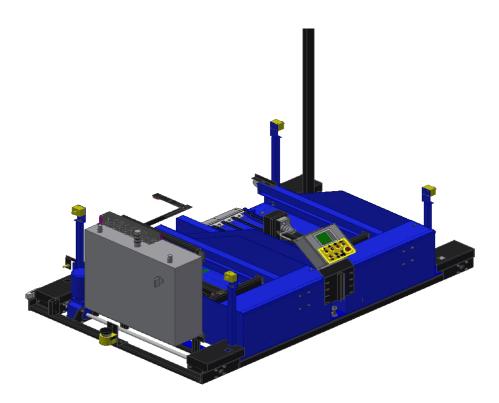
DIMENSIONS

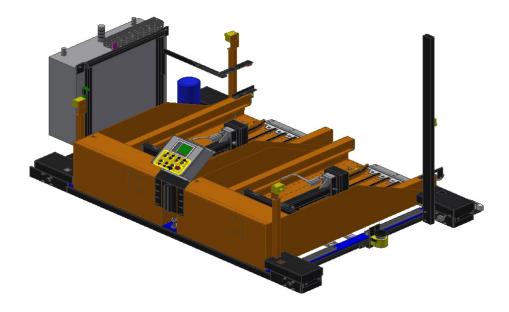




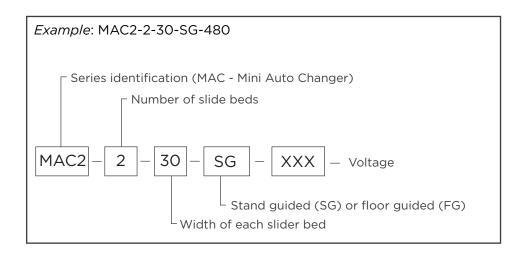


3D RENDERING





Model/Part Number Breakdown





The MAC assembled and ready for use

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Tel: 1.905.564.0303 Toll free: 1.866.THE.BULL Due to continuous product improvements, specifications are subject to change without notice. Some systems and features shown may be optional at extra cost.

CBH_MAC_NA_R006