



MAC Plate-prep System

Pasted panel parting, lug cleaning, milling, and plate stacking

- ◆ **Fast**
- ◆ **Consistent Production**
- ◆ **Precise Cuts**
- ◆ **Controlled Stacking**
- ◆ **Quick Changeover**
- ◆ **Environmentally sound**

The **MAC Plate-Prep System** is a cut above all other parting machines. Pasted panel parting, lug cleaning (brushed and/or milled) and panel stacking are combined into one efficient operation. All controls are user friendly and easily accessible. The MAC Plate-Prep System is engineered to handle formed panels while reducing lead-in-air when connected to the proper air removal system. This machine is a must for providing ready-to-use plates for the cast-on-strap operation.

ACCURATE PARTING

To center and part panels accurately, the MAC Plate-Prep System features multiple hold-downs, lug guides and a full length center support. The side stabilizer system reduces side-to-side panel movement and decreases uncut panel slippage.

FAST

The MAC Plate-Prep System processes panels at speeds of up to 200 formed panels per minute. The variable-speed drive allows for precise speed control. Processing speed depends on panel design. The mechanical or vacuum feeders are designed to accept long-lug panels and smoothly feeds the plates into a horizontal position.

CONSISTENT

Using wire brushes and/or milling wheels, the system cleans plate lugs efficiently. The 3,450 RPM brushing/milling drive motors allow for a finer finish. Four steel wire brushes 152 mm (6 inches) in diameter, cut through impurities to produce bright, shiny plate lugs. The brush bristles are encased in plastic to keep them rigid longer, enhancing cleaning effectiveness and extending brush life.

PRECISE

The circular knives part and clip accurately with minimum dust. The outer lug knives "shear cut" the plate lugs. All knives are independently adjustable.

CONTROLLED STACKING

The stacker's electronics allow the machine to read the number of panels/plates in a stack and to pause the flow while the stack is gently indexed, without having to stop the movement of the plates. Only one off-load operator is required and an extended storage area is built into the off-load conveyor.

QUICK CHANGEOVER

Converting the operation of the MAC Plate-Prep System from one size to another can be accomplished in minutes. Thumbscrews on all upper knife assemblies allow for timely and accurate thickness changeovers.

Width adjustments on the feeder and carrier chain are controlled with hand wheels, which are simultaneously changed in minutes. Knife and brush replacement only requires removal of mounting screws, which can be changed in 15 minutes or less.

SAFE

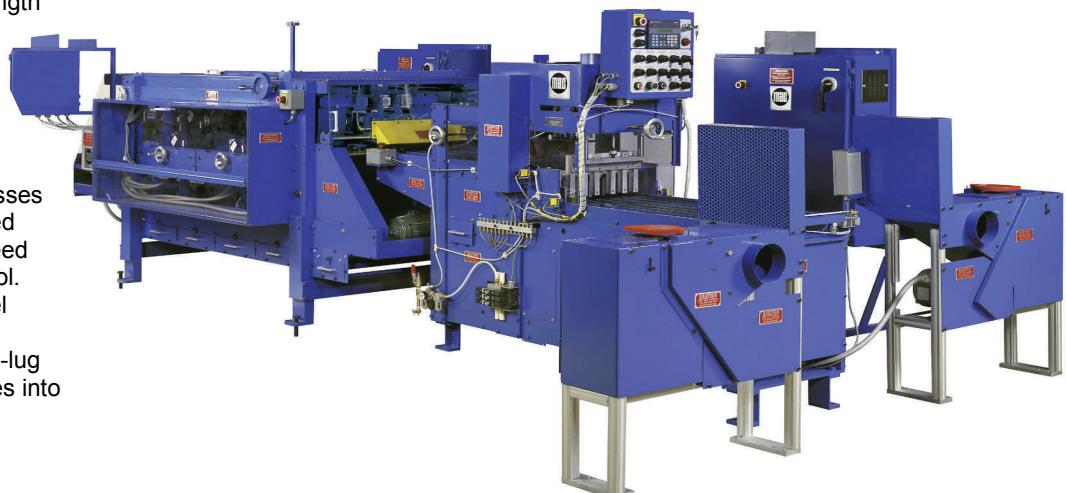
See-through dust hoods on the front, top and sides of the machine deflect random dust particles to the center of the machine. Exhaust ducts are strategically located throughout the machine for maximum exhausting of contaminants.

The operator can view the machine's operation through the see-through dust hood and end panels without lifting any of the hinged safety panels. Should any of the see-through panels be lifted while the machine is in operation, safety switches automatically stop the machine. Dust collection drawers are located below the brushing/cutting knives on the parter for easy cleanout.

The optional Brushing-blocking stations allow for final finishing and inspection of groups.

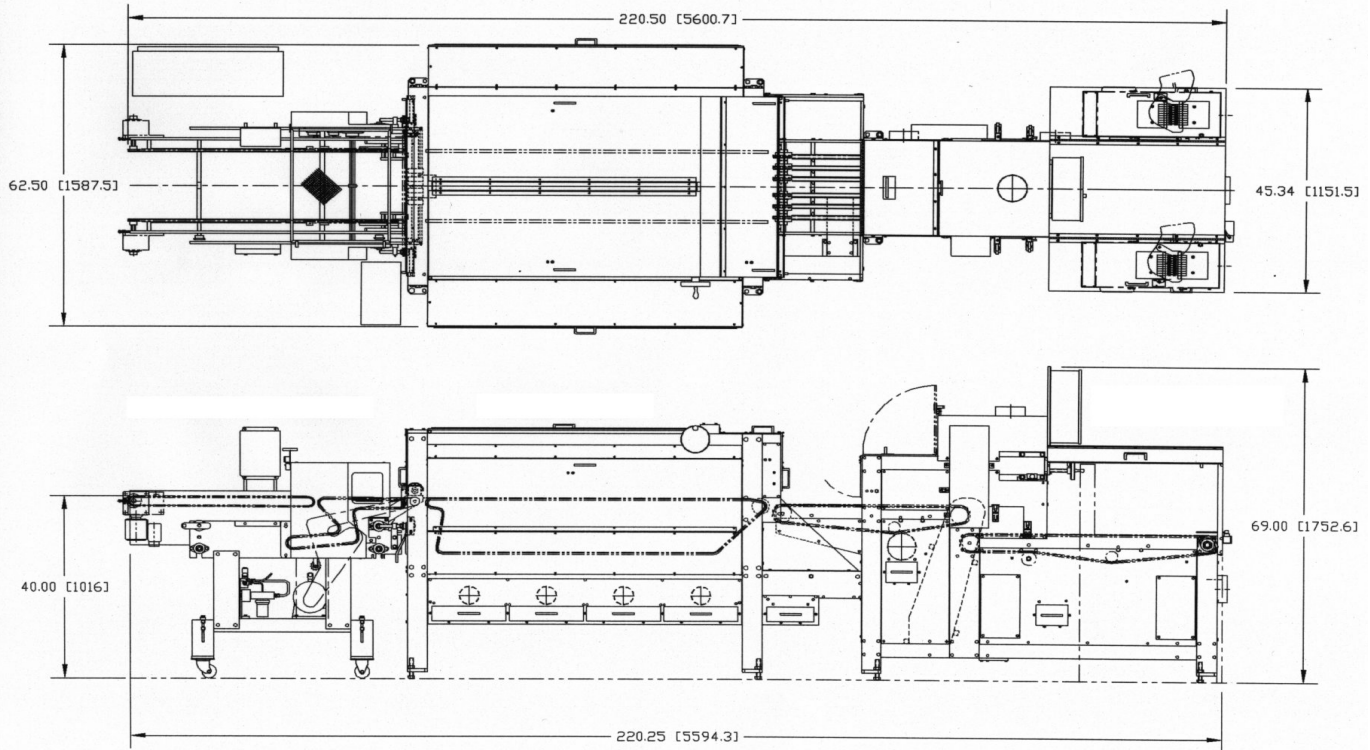
DURABLE

All bearings are sealed to reduce the chance of contamination. The heavy-duty frame provides rigid support for the unit.



MAC Plate-prep System

TECHNICAL SPECIFICATIONS



Operational Requirements:

Personnel	Two, semi-skilled	Ventilation (Parter)	1600 CFM (45 m ³ /m)
Electrical Consumption	9 KVA	Ventilation (Brushing/Blocking Station)	1600 CFM (45 m ³ /m)
Electrical	220-480V, 3-phase, 50-60 Hz.	Ventilation (Stacker)	2900 CFM (82 m ³ /m)
Hydraulics	None	Water	None
Control Voltage	24-Volt D.C.	Compressed Air	.55 CFM @ 80 PSI
Electric Motors:		Approximate Shipping Dimensions:	
Brushing and Milling	(4 or 8) 1/2-HP, 3,450 RPM 60Hz., G56C frame TENV	Vacuum Feeder : Box 1	726 Kg (1600 lbs) 2032x1245x1499 mm (80x49x59 inches)
Main Drive (Parter)	(1) 1 1/2-HP	Parter: Box 2	2402 Kg (5296 lbs) 3785x1930x1854 mm (149x76x73 inches)
Brushing and Blocking	(2) 1-HP, 3450 RPM 60 HZ.	Stacker and Brushing/Blocking Station: Box 3	1425 Kg (3142 lbs) 3302x1574x2032 mm (130x62x80 inches)
Stacker	1 stepper drive, 3 variable speed drives		
Tolerance	±1 mm (0.040 inch)		



Helping to make the best batteries...yours.
MAC Engineering and Equipment Company, Inc.
 2775 Meadowbrook Road, Benton Harbor, Michigan 49022, U.S.A.
 Telephone: (269) 925-3295 or 1-800-756-8608 Fax: (269) 925-3305
 e-mail: maceng@mac-eng.com
 For a preview of our equipment visit: www.mac-eng.com