



## RMS Equipment LLC

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## RMS SLAB FEEDER



The RMS Slab Feeder has been designed for use with all designs of cold feed extruders to improve the extrusion operation by providing a controlled feed of tension free material without metal contaminants. The robust unit is a stand-alone system that operates with wigwag continuous slab rubber and is available in three conveyor belt widths.

RMS Equipment Company is a major internationally recognized designer and manufacturer of state of the art extrusion and tire manufacturing equipment. Our equipment has been supplied to many of the major tire and general rubber product manufacturers and operate worldwide. Since 1917 we have been an integral part of the rubber industry and our equipment has been uniquely developed *within the industry for the industry*.

We continue our tradition of working closely with customers to design, manufacture and commission extrusion equipment that will meet or exceed their individual product requirements for accuracy, reliability, quality and higher productivity. This includes complex multi-extruder lines, single extruders, extrusion heads, single roll roller dies and slab feeders.

**RMS Pride – A Tradition**  
Member of the Pettibone Tire Equipment Group

## RMS SLAB FEEDER

### FEATURES:

- Manual and automatic modes.
- Reversible conveyor belt driven by an A.C. motor.
- Accumulator loop with dancer tray.
- Loop can be of sufficient size to allow reversal and removal of metal without disruption of the feed to the extruder.
- Weighted roller to keep the slab stock stable on the conveyor and ensure proper feeding.
- Metal detector (optional) with manually adjustable sensitivity setting.
- Double fold detector to prevent metal detector jam-ups.
- Audible alarm with alarm silence.
- Interlock to the extruder drive.
- PLC controls.
- Pull rope safety switch system.
- Out-of-material sensor.

### OPERATION:

The wigwag continuous slab of rubber is presented to the unit on a skid, The Slab Feeder removes the material from the skid and feeds it through an optional metal detector. The slab is then fed into a free loop controlled by a loop detector and the extruder pulls rubber from the loop as required. The free loop assures tension free rubber to the extruder.

### MANUAL MODE:

In manual mode the operator can select forward or reverse, as well as start/stop, enabling the Slab Feeder to be loaded or unloaded. During loading the slab rubber is fed between the conveyor and a weighted roller. The rubber is then threaded through the metal detector (optional) and accumulator loop to the extruder hopper by the operator. Note that the metal detector and all other safety functions are operational in manual and automatic modes.

### AUTOMATIC MODE:

- In automatic mode the feeder will operate automatically presenting tension free rubber at the feed rate required by the extruder.
- If the metal detector or multiple fold detector is activated the following occurs:
  - Two timers are activated (one for reverse duration and one for extruder stop).
  - Conveyor motor reverses until time one times out.
  - An audible alarm is activated to alert the extruder operator.
- Note the reverse duration will always return the rubber strip to the same position enabling the operator to take corrective action.

### SIZES AVAILABLE:

Conveyor Belt Width	Maximum Strip Width
24" (610mm)	22" (559mm)
36" (914mm)	34" (864mm)
48" (1219mm)	46" (1168mm)

### OTHER RMS EQUIPMENT:

- 1<sup>st</sup> & 2<sup>nd</sup> Stage Tire Building Machines
- 1<sup>st</sup> & 2<sup>nd</sup> Stage Upgrades and Retrofits
- Extruders, Extruder Heads and Extrusion Lines
- Complexing or Component Pre-assembly
- Tire Room Automation
- Single Roll Roller Dies