

Chargemaster® Pinner™ and Pinner Bar NR Arc Resistant Charging Bars

SIMCO's **Pinner and Pinner Bar NR** (Non-Replaceable pins) are Arc-Resistant Charging Bars. When used with SIMCO's Chargemaster power supplies, they deliver a safe electrostatic charge to temporarily pin or bond materials together. This efficient use of single polarity ionization can increase productivity and reduce rejects in packaging, converting, printing, plastics and other manufacturing operations.

Both Pinner Bars are current limited and feature high voltage cables with silicone sleeving to ensure operator and equipment safety. The Pinner Bar NR has non-replaceable pins while the Pinner Bar features removable emitter pins for fast, easy maintenance. The Pinner Bar and Pinner Bar NR are available with an optional high voltage cable connector so bars can be easily removed without unthreading the cables. The bars are rated for use in temperatures up to 200°F, with high voltage to +/-30kV and to +/-50 kV with special provisions.

A heavy duty resistor enables arc-resistance, avoiding interruption of static charge and loss of pinning action. Resistance to arcing means that SIMCO's bars continuously supply a static charge. This feature makes them easier and safer to set up and use and produces superior bonding compared to less sophisticated bars.

Pinner Bar



Pinner Bar NR

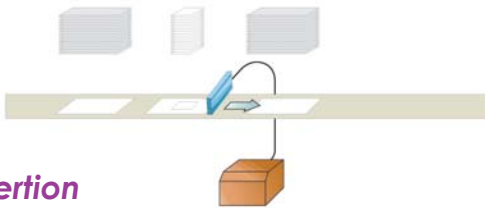


Chargemaster Power Supplies

Features and Benefits

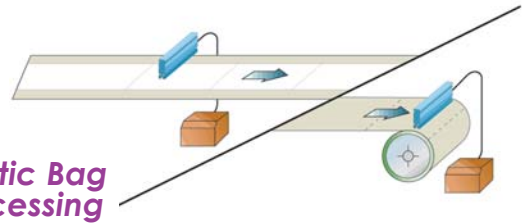
- Current limited for operator safety and reduced EMI/RFI emissions
- The Pinner Bar has replaceable emitter pins for easy maintenance and continued high performance
- Extremely rigid design ensures minimal bar deflection even in temperatures up to 200°F
- Optional quick disconnect version allows removal of the bar without removing the high voltage cable
- Designed for use with Chargemaster high-frequency switching power supplies, guaranteeing a regulated and stable voltage supply

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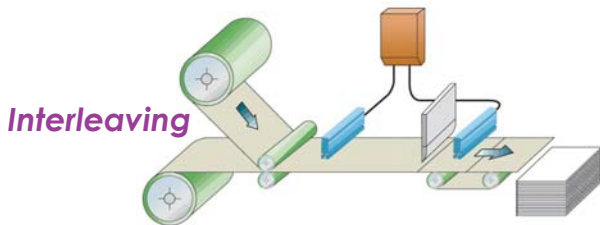
Card Insertion

On perfect bound lines, card inserts often overshoot the target area because of the line speed. Apply a static charge with the Pinner Bar to the card as it hits the page to effectively hold the card in place. The card will not slide into the spine and be accidentally glued.



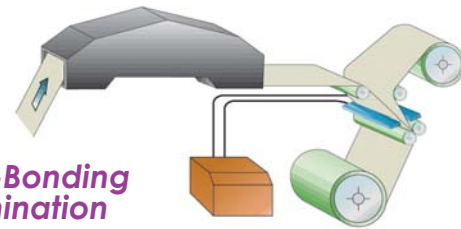
Plastic Bag Processing

The speed of the conveyor can cause the lead edge of the bag to lift up and shift. Electrostatically pinning trailing to leading edges prevents lifting and keeps bags proceeding smoothly along the conveyor line.



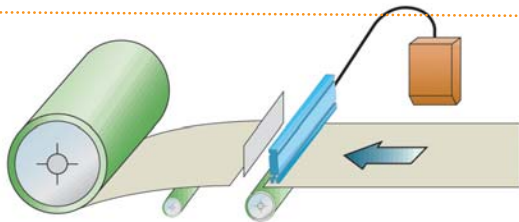
Interleaving

The Pinner Bar pins the protective sheet to the base material, holding it in position through the shearing and stacking process. The bar electrostatically bonds the protective layer of paper or film to cut metal, glass and other materials. It can also hold wood laminates to core board.



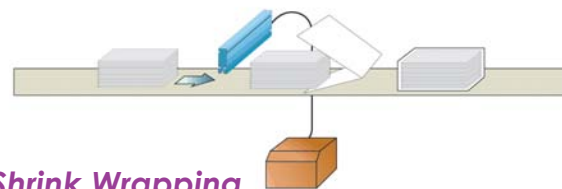
Dry-Bonding Lamination

A Chargemaster Power Supply and Pinner Bars bond the substrate and the laminating material. The materials pass between the two bars and are electrostatically bonded. This ensures that materials remain aligned during lamination.



Roll-to-Roll Changeover

The Pinner Bar applies a temporary charge to the leading edge of the roll of film at rewind. The edge adheres to the core without the use of tape or messy adhesives. Finished product quality is enhanced by elimination of creases in the roll of film caused by tape and glue on the core.



Shrink Wrapping

An electrostatic bond holds sheets of paper or plastic in place until heat sealing or welding is completed. The Pinner Bar bonds sheets together to keep them in tight stacks, preventing shingling, imperfect packaging and damaged sheets.

Specifications

Effective Length	• 5" to 147" in 3" increments
Bar Dimensions	• 3.25"H x .75"W
Weight	• 2 lb. 2 oz per foot
High Voltage Cable	• 10' standard length, silicone with flame retardant protective sleeve. Straight or right angle cable to bar connection. 1/2 minimum bend radius

High Voltage Connector	• Standard 50kV spring-loaded connector with optional 30 kV supplied
Operating Voltage	• Rated at +/- 30kV; can be used to +/- 50kV with special provisions
Mounting	• Fully adjustable bolt head channel