

SMV-2000 Strapping Machine

MOSCA®
EAM MOSCA



- Fully Automatic
- Side-Sealing
- Indexing
- Double-Tensioning Strapping System For Unitizing Bulk Loads

Quality EAM-MOSCA Products



High Quality Strapping

EAM-Mosca is committed to providing you with only the highest quality strapping. New, state-of-the-art strap manufacturing lines in our Hazleton Plant helps to ensure the production of problem-free and competitively priced strapping products.

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Load Stabilizing Platen. During the strapping cycle, the optional platen automatically lowers to the top of the bulk load, compresses and pre-settles it to ensure straps remain tight during subsequent stacking and shipping operations. The pneumatically powered, free-standing platen option is available in 500 Lb. or 1,200 Lb. versions.



Tension Retention. The SMV-2000 applies straps securely and evenly to produce the most stable loads. Even after shipping and storage, loads remain tight and secure. No other packaging method can provide the tension and stability that high-strength strapping applied correctly can provide.



KSR-2 Strapping Head. Extremely reliable strapping head saddled in a carriage device, employs a double-tensioning feature to apply evenly distributed force around the entire load. The high-speed, all-electric, KSR-2 friction-seal strapping head has been proven in hundreds of industrial installations and produces a highly efficient seal joint.



Pallet Void Feeder. A standard feature, the pneumatically powered lance feeds strap effortlessly through the pallet void during the strapping cycle to secure the load to the underside of the pallet top-deck. An optional underfeed strap track is available to strap loads beneath the pallet.

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Features

Loads of products such as cans and bottles require particularly tight straps and consistent strap tension to give them the stability they need to get from your facility to their target destination; particularly high loads, and product loads that tend to settle when stacked, or while in transit.

Uniquely suited to stabilize these loads, the **SMV-2000** from EAM-Mosca is equipped with an advanced strapping head coupled with several additional features, all programmed to provide you with the most secure bulk loads.

How it works

Not to be confused with 'dual tensioning', which only allows for an operator-controlled high/low tension choice, the **SMV-2000** features a high-speed, two-step process for true bi-directional strap tensioning that ensures stable loads. Strapping is more evenly tensioned around the load by a double-tensioning or bi-directional tensioning system. Conventional strapping machines pull the strapping around the load, pulling in only one direction. The friction between the strapping material and the load itself reduces the amount of strap tension applied; less and less strap tension is wrenched on the plane furthest from the strapping head. The least amount of tension is achieved in the length of strap from the bottom corner to the re-entry side of the head. The result: unstable loads, even if they are subsequently stretch wrapped. EAM-Mosca offers a better solution.

- The **SMV-2000**'s double-tensioning system moves the strapping head horizontally into the load, and then upward vertically to create a double-tensioning sequence that applies evenly distributed strap tension around the entire load.
- The **SMV-2000** features the fast, KSR-2 all-electric, friction-seal strapping head, which does not require smoke evacuation units when using polyester strapping. The seal produced by the KSR-2 head provides consistent seal-joint efficiencies, and has been proven in many industrial installations. The KSR-2 is designed for low-maintenance and is noted for its reliable high-speed strap feeding and take-up. The KSR-2 strapping head indexes pneumatically up to 18 inches to meet incoming loads, eliminating the need for critical load positioning. Once the head gently touches the load, the double-tensioning feature is initiated.
- The **SMV-2000** is capable of accommodating loads up to 60 inches wide, and as low as 30 inches high, with conveyor heights as low as 9 inches. Track size can be customized for your application from 52 inches to 124 inches in height, in 8-inch increments.
- Strap track body and corners are formed of special, low-friction UHMW Polyethylene material noted for its toughness and long wearing characteristics. The unique design allows for high-speed, jam-free strap feed, eliminating the need for expensive strap feed boosters. All strap track gates are made from stainless steel. An accumulating, non-powered strap dispenser is included.
- Simple, easy to use operator controls are included, along with an Allen-Bradley MicroLogix 1500 PLC. Diagnostics and troubleshooting are simplified with the built-in Allen-Bradley PanelView 300 Display. Interlocks for integration into a material handling system for "operatorless" operation are standard.



Double-Tensioning Process. As illustrated, the KSR-2 head indexes pneumatically up to a full 18 inches horizontally to meet incoming loads, eliminating the need for critical load positioning; the system's double-tensioning process is accomplished with a vertical upward draw of the strapping head during its final tensioning process. Traveling upwards up to 4", the head consistently pulls tighter tension under and around the load prior to sealing the strap ends.



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Technical Data

Strap Track Sizes Available

- Width: 63"
- Height: 52" - 124" in 8" increments (Specify at time of order)

Load Height

- 30" Minimum from top of conveyor
- 120" Maximum from top of conveyor

Conveyor Heights Available

- 9" Minimum - 20 " Maximum (Specify at time of order)

Head Index

- Up to 18 inches horizontally; 4 inches vertically

Strap Types:

- 9mm -12mm (3/8" - 1/2") Polypropylene or Polyester

Strapping Head:

- All-electric
- Strap Tension adjustable 50 - 450 Pounds

Seal Joint

- Friction-weld

Cycle Speed

- Approximately 10 seconds
(depends upon track size and load perimeter)

Power Requirements

Electrical:

- 230/460 VAC, 3 ph, 60 Hz
- (20 AMP/10 AMP)

Air:

- 2 CFM @ 80 PSI
- 10 CFM @ 80 PSI with Optional Load Stabilizer

Controls:

- A-B MicroLogix 1500 PLC
- A-B PanelView 300
- Conveyor Interlock

Options and Accessories

- Underfeed Strap Track
- Load Stabilizer; specify 500 Lbs. or 1200 Lbs. Compression

