



...when machines understand you



SMPA 500.1 ED

*Nailing Machine with
Linear Actuator*

Nailing Machine with Linear Actuator SMPA 500.1 ED

Construction and application of the machine

The SMPA 500.1 ED automated nailing machine has a modern robust construction with the use of an electric-mechanical system for nailing pallets of various types and dimensions.

It is a suitable solution for operating units in which it is necessary to construct high-quality pallets with high labour productivity and accurate nail patterns. The machine works with bulk nails and with electric drive it has the lowest power input (1.2 kWh) in its class. It is designed and priced for medium-sized operating units with a production output of approximately 500 – 550 pieces per shift by two employees.

Work safety

The machine fulfils strict requirements for work safety stipulated by respective EC standards.

Operating the machine

The machine uses a floating table to nail prepared pallet pieces and the lower part (leg).

1. Blocks and boards for the lower deck of the pallet are placed into the working position on the left part of the table (legs).
2. The prepared lower deck of the pallet (legs) is placed into the working position on the right part of the machine on which the operator places the ledge and the horizontal boards of the prepared pallet.
3. After placement, the operator confirms the automatic nailing step and the machine performs the respective number of nailing strokes.
4. After the nailing cycle, the prepared pallet remains in the output part of the machine and the pre-prepared lower parts of the pallet (leg) are returned to the starting position.
5. The whole cycle is repeated for subsequent operations.
6. The prepared pallet is manually removed from the output part of the machine by the operator or the pallet can be

Technical description of the machine

- The machine can build pallets of various types and dimensions according to the used template (2-way pallets; 4-way pallets)
- Maximum dimensions of pallets (width x length) 1,200 x 1,500 mm (1,500 x 1500 mm without the preparation of legs)
- Minimum dimensions of pallets (width x length) 700 x 600 mm
- The table can be extended to produce pallets with a maximum length of 2,500 mm
- The standard version of the machine is equipped with a universal adjustable template
- The machine operates with all bulk nails available (l = 27-90 mm), including EPAL nails
- The standard version has 3 boxes with 10 outlets for three types of nails (a box with 12 outlets or 4th box is available)
- The standard version has 26 hammers (up to 44 hammers available)
- Minimum span of nails 25 mm
- Tolerance of the maximum precision of the position of beats ± 1 mm

Assembly of the machine with the production line

It is recommended to assemble the SMPA 500.1 ED machine with the complete SMOP and SMPS production line. SMOP machines mark, cut corners and mill edges, while SMPS machines are designed for pallet stacking.

More information about SMPA 500.1 ED available at www.stoerimantel.cz

The producer reserves the right to make changes. We are not liable for typographical error.



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Awarded with Gold Medal

