

RAKU-TOOL® Spotlight

**Links:**[News](#)[Contacts](#)[RAMPF Tooling](#)[Products & Solutions](#)**In this issue:**

RAKU-TOOL
modeling board
MB-0671 for shoe
sole models

Stand firm with RAKU-TOOL®.



Dear Sirs,

Turkey is one of the big players world-wide in the textile and clothing industry. To survive and thrive in this very competitive market good quality products are a key to success. This also applies to shoes. How a trainer or sandal get their shoe sole will be outlined in this Spotlight.

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RAKU-TOOL® modeling boards - quality you can count on.



Application

EMİNTAŞ Kalıp Ali Peçe is a manufacturer of models and molds for the shoe production and the company supplies a large number of customers in Turkey. It is using the RAMPF board material RAKU-TOOL MB-0671 to produce master models for the manufacture of rubber shoe soles. The good mechanical properties as well as the local technical support through Modelform have convinced the company to chose MB-0671.

Customer requirements:

- » **Compact material**
- » **Easy processing**
- » **Good edge strength**

Production process

1. First a master model is machined out of board material using a 2 or 3 axis CNC milling-machine. It is important that the board material is easy to machine but still exhibits a good edge strength.
2. The sides of the master model are then covered with leather as they cannot be machined with the 2 axis CNC milling machine. During this process it is crucial that the grained foil can be bonded properly to the board material.
3. From the master model a silicon negative is produced which in turn is used for the production of a plaster model (positive).
4. The plaster mold is used to cast the actual metal manufacturing mold (negative). The metal mold then serves for the actual production of PU or rubber shoe soles.
5. The finished rubber soles are bonded to the shoes using a special adhesive.

Advantages of the RAKU-TOOL MB-0671 modeling board for this application

- » **Good edge strength** thanks to the dense, homogeneous structure.
- » **Compact board material**, well suited for fine outlines.
- » **High stability** even with thin wall thicknesses and ridges on the shoe profile.
- » **Little finishing required** due to fine surface structure.
- » **Time savings through fast and easy processing.** The material is easy to work with, even by hand. Good chip formation.
- » **High dimensional accuracy** of models due to the good shape retention and a low coefficient of thermal expansion of the board material.