INTRODUCTION TO BRUSHING

In recent years, the **personalization** of wood products has become more widespread, probably because of the general economic crisis, which has prompted manufacturers to try and offer something different and more appealing to customers.

A valid system for personalizing wood products is **brushing.** This operation consists in modifying surfaces, highlighting the grains of the wood. In point of fact, it is simply a matter of "bringing out" what is already there in the wood, i.e., the natural wood-grain pattern which gives a very beautiful natural appearance.

By then going on to play with the brushing parameters such as depth and softness, and with impregnation colours, free rein can be given to the imagination to create different solutions according to personal taste.

Technically, the antiquing operation is performed by means of roller brushes. These are rotated by the SARMAX machinery and abrade the wood, consuming it. The soft grain is abraded the most, while the hard grain is abraded less and remains in relief.

A number of different surface effects produced by brushing can be seen in the photos below. These can be easily obtained using SARMAX brushing machines and varying a number of machining parameters such as, for example: depth, feed, brush type.
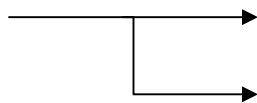
ANTIQUING BRUSHES

The brushes are the **tools** of the brushing machine, and as in the case of other tools, many different types exist according to the type of finish to be obtained.

These are mainly split into:
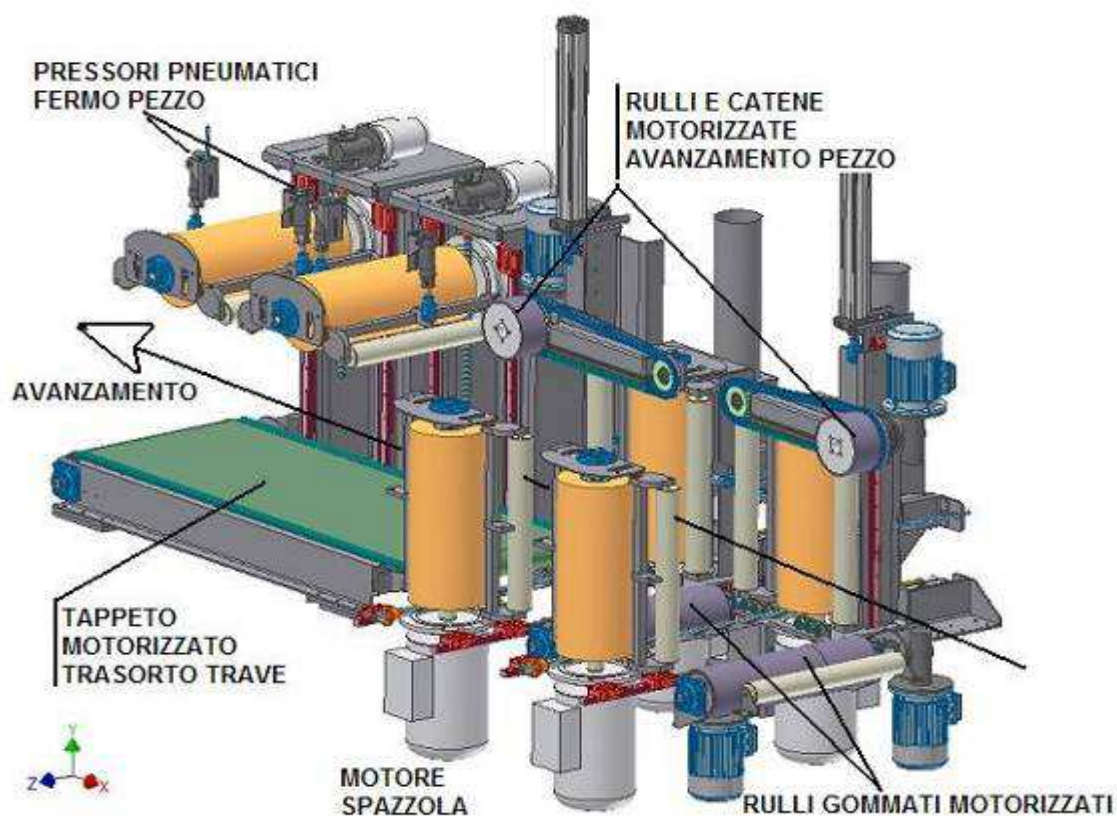
BRUSH TYPES ⟶ **STEEL**

TYNEX

Example of steel brush for medium soft wood such as fir and larch

Example of tynex wire brush, suitable for soft woods (soft rusticating) or hard wood finishing.

ANTIQUING MACHINES

antiquing machines can be mainly split into two groups:

MACHINES ⟶ **SINGLE SIDE**

SEVERAL SIDES

single-side machines normally work the upper side, while those for several sides work three sides so antiquing is performed in a single stroke on the three visible sides of the beam.

SARMAX SINGLE SIDE
Example of open single-side machine
for carpentry,
model: SARMAX SP2-400

SARMAX SEVERAL-SIDE MACHINE

Functional diagram of the SARMAX 3F250I brushing machine:

PNEUMATIC PIECE RETENTION PRESSERS
MOTORISED PIECE FEED ROLLERS AND CHAINS
FEED
MOTORISED BEAM TRANSPORT BELT
BRUSH MOTOR
MOTORISED RUBBER-COVERED ROLLERS

Example of three-side machine **for carpentry**, max work dimensions 60x60 cm.

COMPLETE FINISHING LINES

The various machines can be linked to create complete operating lines. One example could be:

1. Automatic **6-way loader for** introducing pieces
2. **Sarmax** 3-side **antiquing-brushing machine**
3. Motorised intermediate **transfer unit**
4. **Impregnating machine**, **Sarmax 60x30,**
5. Automatic **Extractor,** exit
6. Automatic **Unloader**.