

Laundry soap finishing line

1) Principle

Household soap manufacture is different from traditional toilet soap making (cf. soap finishing line automatic or semi-automatic version). This finishing line is automatic but we use machines with a bigger capacity because the soap and the production are more important.

2) Process

Soap coming from drying (or from 25 or 800 kgs bags) is, same as in the other finishing lines, put in the mixer where noodles are mixed with additives such as perfumes, water or others.



Mixer

After the mixer, the soap is brought to a duplex vacuum plodder by a conveyor. In the plodder, the soap is compressed and extruded as a compact, smooth and homogeneous soap bar, ready to be cut and engraved.



Conveyor

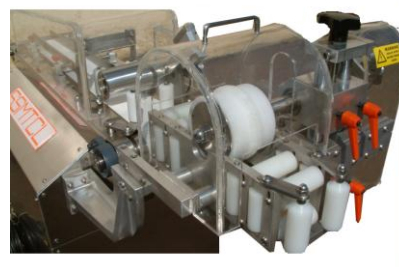


Duplex vacuum plodder

Then, soap bar extruded from the plodder enters an electronic continuous cutting and marking machine which will cut and engrave the soap. The bar moves on a variable speed conveyor and is cut by a stainless steel knife actuated by a servo motor. While, two engraving rolls make the embossing.



Automatic continuous cutter marker



View on the rollers

But, after the plodder, soap bar could be cut and not engraved. Then, cut soaps are introduced in a Revolver type stamping machine in order to have their final shape in a dieset (the shape is generally square or rectangular).

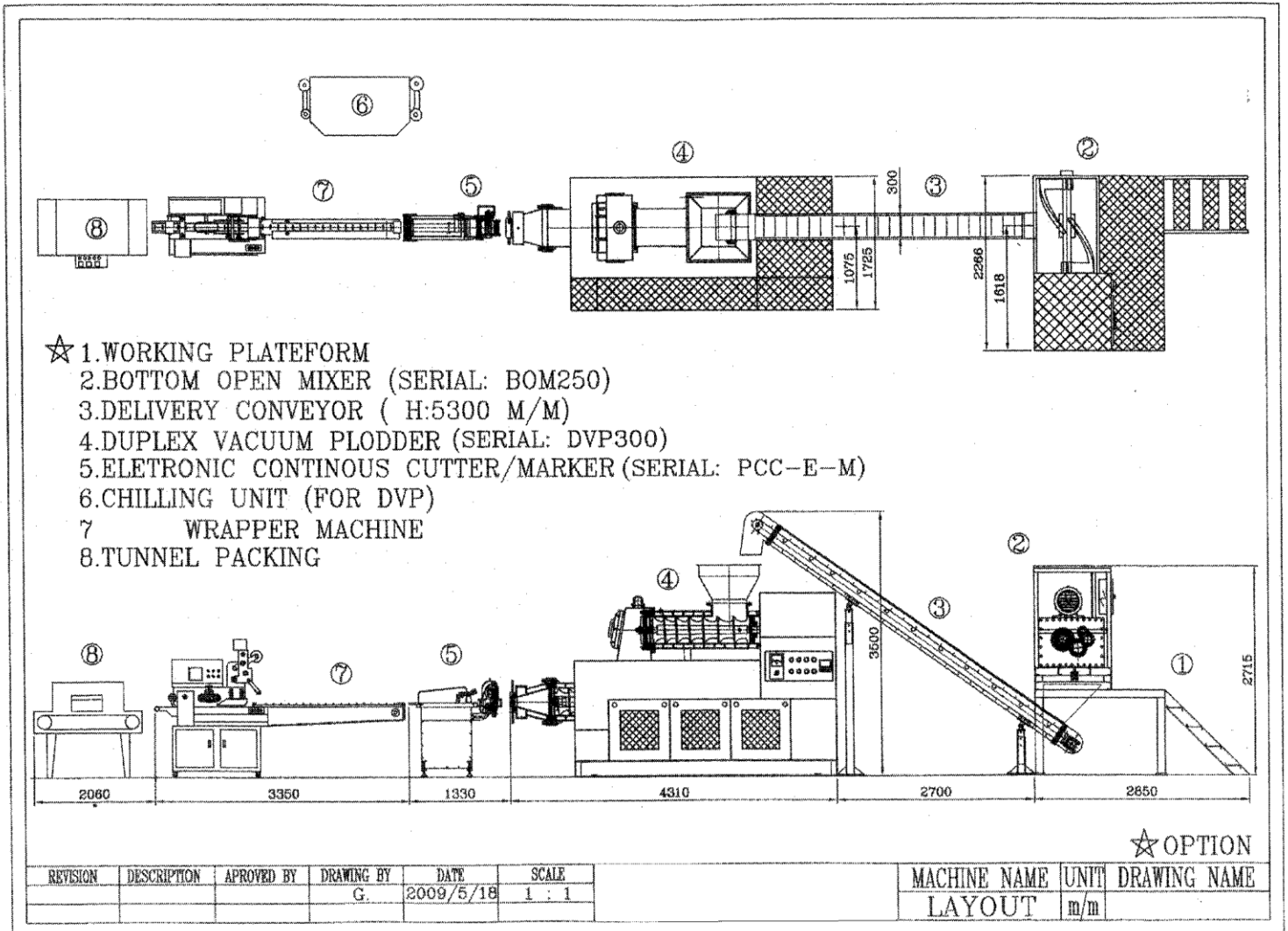


REVOLVER type stamping machine



Dieset

You can see a schematic on page 3 which shows you the soap finishing line for household soap as we described it.



Steps 1,7 and 8 are options.