

## 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 kg 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**

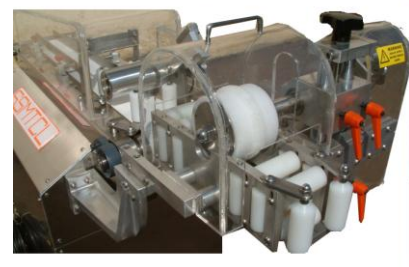


**Duplex vacuum plodder**

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**



**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 die set ( the shape is generally square or rectangular ).

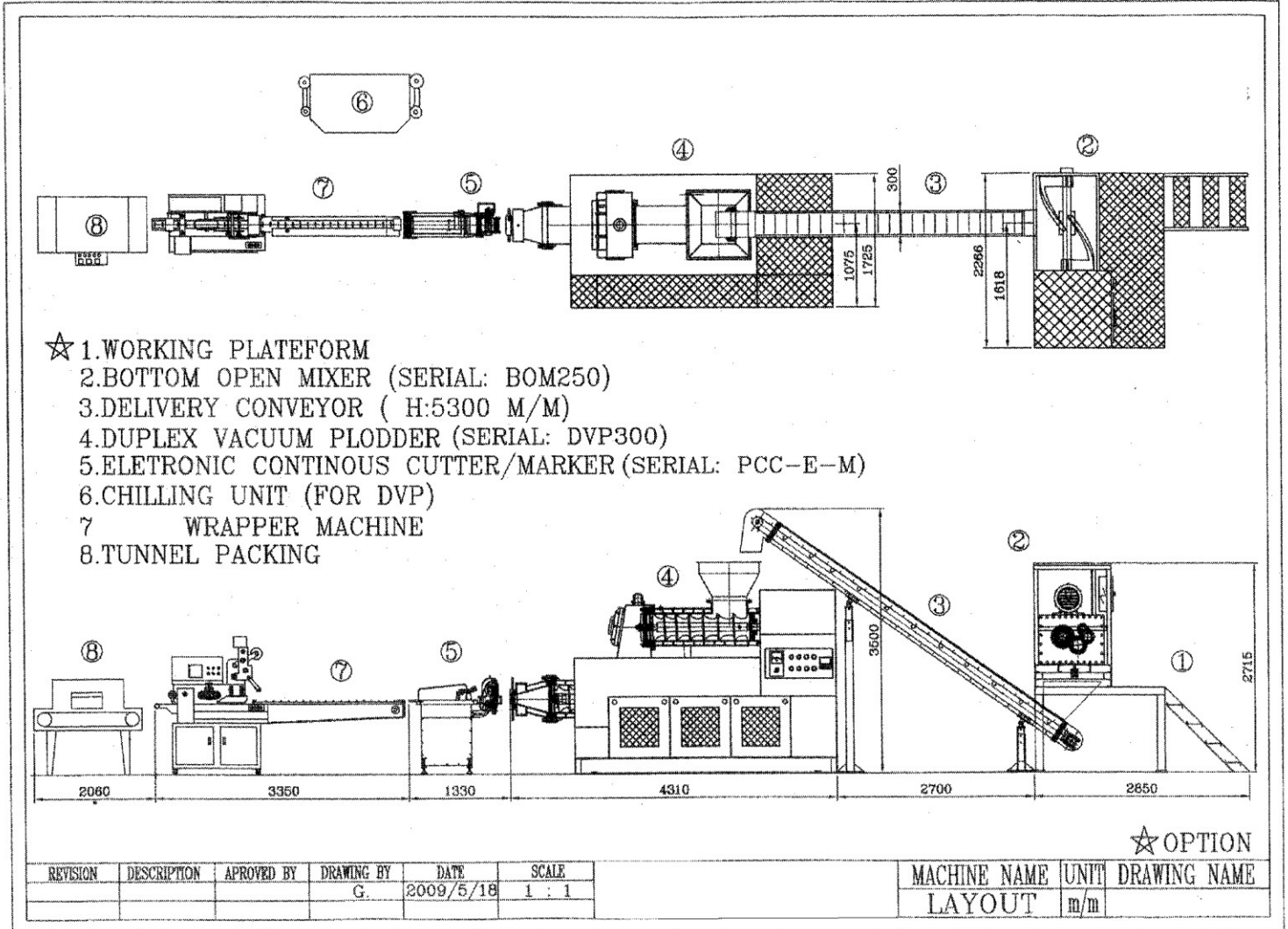


**REVOLVER type stamping machine**



**Die set**

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.