

PROJECT FOR MANUFACTURING CIRCULAR MESHED POT SCOURERS



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VOCO SARL



The factory Voco Sarl in France

VOCO SARL is the leading manufacturer of flat galvanised and copper-coated wire for the manufacturing of steel pot scourers. We also assemble our own machines for the manufacture of knitted pot scourers.

Our range includes galvanised, copper-coated wire, as well as knitting and cutting machines.

Furthermore, our partners enjoy the benefit of our complete expertise in the manufacture of pot scourers.

Pot scourers made with VOCO premium flat wire are shinier and have a superior cleaning capacity.

Do not hesitate to call me for any information concerning this project.

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DESCRIPTION OF THE MANUFACTURING PROCESS OF CIRCULAR MESHED POT CLEANERS

1) First operation : knitting process WITH BENCHES (only by Voco)



Each knitting head produces 220 mesh rows per minute. This corresponds to a knitting capacity of 3,2 Kg of wire mesh per hour.

During our 50 years' experience in manufacturing of pot cleaners, we have specialised our production of soft, high-gloss galvanised, strongly flattened mild steel wire.

In addition to this special wire, we also provide the necessary equipment and, if requested, staff training.

Our know-how is at your disposal. We have perfected robust and fast running knitting machines requiring practically no maintenance. We can further offer you simple foot pedal operated cutting machines.

Only a limited number of operating personnel is necessary and can be coached by us. One person can easily operate up to 15 knitting heads.

Knitting without bench : one single head knitting machine + cutting machine



Top Left : one single head machine, Top Right : cutting machine, Down : double head machine (we do not sell this machine anymore)

2) The confection of pot scourers

The cut pieces of wire mesh are closed at one end, then hand-rolled to form pot cleaners which are tied and sewn.

The output depends to a great extent on the skills and the motivation of the individual person making the pot cleaners; it usually varies between 50 and 80 pieces per hour (persons which have a good experience and training can produce more, up to 120 pieces per hour). This confection can be an home-made activity.

For more info about confection by hand see our video on http://www.voco.ch/voco_en/produkte-und-anwendungen/herstellung-topfreiniger.html

3) Packing



The finished products are usually strung into a wire, 25 together, or packed in plastic bags of 3 to 25 pieces.

The goods are sold to wholesalers or retail trade in larger packing units, in cardboard boxes or large plastic bags.

Minimal hardware configuration / capacity to set up a small manufacturing unit

Example: manufacturing of 160 000 scourers / month of 15 Grs each (2.4 tons)

1. Required material

4 single head knitting machines

The output per head is 3 Kg of wire mesh per hour

Based on a production time of 8 hours per day - 25 days per month, the output is:

$$\underline{4 \text{ knitting heads} \times 3 \text{ Kg/h} = 12 \text{ Kg per hour or } 2400 \text{ Kg/month}}$$

2. Staff required

❖ Knitting

One person is needed to supervise and handle the knitting machine and one person for cutting the wire mesh into pieces corresponding to the required weight (for example 15 Gr) (by means of the cutting machine).

Besides putting on new wire spools on machines and taking away wire mesh rolls, this person can supervise the machines and take care of any minor mechanical problems. If running only 2 knitting machines, the operator will have time enough to cut pieces of the proper length of the wire mesh.

❖ Packing

One person to finish the pot scourers, i.e. to roll up the pre-cut pieces of wire mesh and to close the finished pot scourers (the number of persons required depending on their individual skills).

One person to pack the goods and prepare them to dispatch (This person could also cut the wire mesh)

The staff required for knitting, cutting, making the finished items and packing, is also determined by the size of the pot cleaners (10Gr or 15 Gr) and the kind of required packing (e.g. 3, 10 or 25 pieces per package). We estimate that a very good output/person is between 50 and 80 pieces per hour. The very-skilled people can produce 120 pieces/hour.

An output of 60 pieces/hour is very acceptable, so it means 13 workers/hour to produce 800 units/hour.

REMINDER

PRODUCTION OF 160 000 POT CLEANERS OF 15 GR (2.4 TONS)

❖ REQUIRED MATERIAL

4 MACHINES WITH 1 KNITTING HEAD
+ CUTTING MACHINE



= 12 Kg of wire mesh per hour


For a production time of 8 hours per day - 25 days per month, the output is:


4 knitting heads x 3 Kg/h = 12 Kg per hour or 2400 Kg of wire mesh per month

= 160 000 pot scourers of 15 Gr monthly

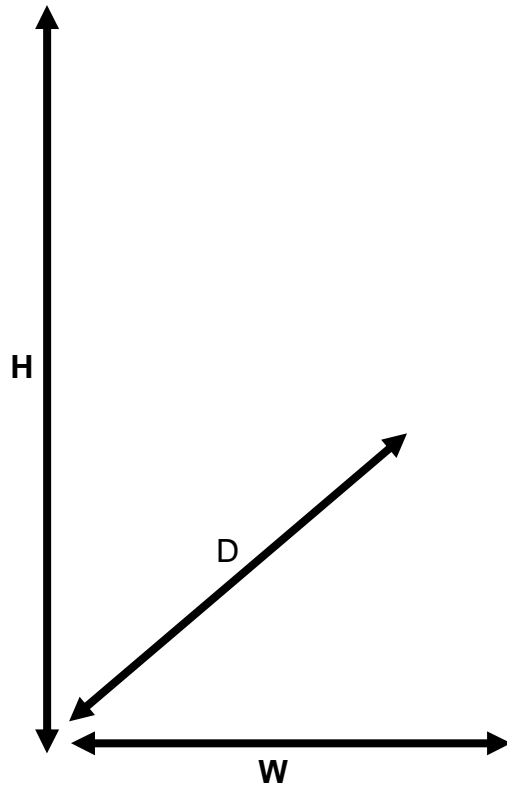
❖ STAFF

Reminder : 12 Kg of wire mesh/hour = 800 cleaners/hour

1 x  = 60 pieces/hour

13 x  = 800 pieces/hour

DIMENSIONS OF THE SINGLE HEAD MACHINE



H : Height with porter: 1700mm
W : Width: 700mm
D : Depth : 750mm