



# PDM AMRE

Pantyhose,  
muff dyeing  
machines

## Main Features

PDM machines, along with AMRE machines equipped with drawers and shelves, are nowadays installed in the biggest pantyhose factories worldwide.

For general information on our pantyhose dyeing machines and options available, please **refer to the pages from 4 to 7 of the present catalogue**. Some additional specific features are hereunder exposed.

Static dyeing machines in pantyhose dyeing, ensure a higher quality compared to drum dyeing due to the simple fact that material is not moving inside the machine (or is moving within a very small space).

Static dyeing is the most common technology for pantyhose dyeing in Italy and has completely replaced the old drum dyeing technology (which can be applied -with some limitations) only on hevt denier material. Among italian companies where static pantyhose dyeing is performed, Cubotex has nearly 90% of market share with the 2 models here after exposed.

## PDM Main Features

**Machine purpose:** PDM machines are the most efficient system for dyeing light pantyhose (average up to 40 denier).

Moreover, in case of **muff dyeing** (any count), when particularly high parameters of elasticity and mechanical characteristics are required, generally speaking the treatment in PDM machines has shown better results compared to the same material processed in a bobbin dyeing machine.



**Circulation:** PDM machines are equipped with axial pump, the same used on cabinet machines and the circulation of the liquor is the same. The flow is crossing the material **from top to bottom and vice-versa** and not from inside to outside. In addition to that, the flow is definitely higher compared to a centrifugal pump of the same size but the pressure head is much lower and permits a very delicate treatment on the articles.

**Liquor ratio:** in light denier pantyhose, the liquor ratio on PDM machines compared to cabinet machines is approximately 30 to 45% less (depending on machine size). In comparison with drum machines, water saving may also reach 50% since the material loading density in a drum machine with rotating basket has to be definitely lower compared to PDM system.

**Material holder:** All the baskets of PDM machines are suitable to be **directly introduced inside a hydro extractor** with important labor saving.

**Installation:** All PDM machines are suitable for floor installation, there is no requirement of any foundation work.

**Machines capacity:** All machines can be equipped with special baskets for load reduction up to 50% and adjustable filling level. Standard capacities of 25-50-100-200 kg are available.

## AMRE Main Features Pantyhose Dyeing

**Machine purpose:** AMRE machines can be used to dye any kind of pantyhose, from very light material till medical stockings.

**Material holders:** Every material holder can be equipped with drawers and shelves, according to the type of pantyhose to be dyed. Shelves are used for the light material loaded in bigger bags, drawers are used for the heavy material generally packed in smaller bags.



**Material preparation:** Microfiber heavy articles are loaded into drawers after a pre-boarding operation. Light denier pantyhose are loaded in shelves (or drawers) without any pre-boarding. Machines are all equipped with double set of drawers and carriers + double set of trolleys for material holders transportation.



**Drawers configuration:** According to the articles to be dyed, machines can be equipped with drawers of different height according to customer preference.

**Machines capacity:** AMRE machines are available from laboratory capacity (2-3 kg) till big production capacity (max. 220 kg). There are 5 different drawer dimensions and each dimension can be combined with 3 different machines heights: In such way, it is possible to cover ANY capacity requirement with a range of machines which includes **15 different models**.



### Focus on Medical Stockings:

For the producers of medical stockings, some articles can only be dyed in static machines to reach the highest quality results. For some of these articles, it is indispensable to avoid folding the material inside the drawer.

For this specific purpose, we offer a special line of machines with extra-long drawers that permit to load even the bigger size stocking without any folding.

**Medical stockings small production lots:** In this field it is very common to receive small orders from 5 to 25-30 kg for which a standard cabinet machine would not be suitable because of the small dimension of the drawers (typically 500x500 mm on these sizes).

For this purpose, we have a dedicated line of machines which can be realized upon request with **any number and size of drawers**. Here above an example of machine with a single drawer with suitable dimension for loading medical stockings without the articles folding (capacity 7-10 kg).

