

ABEP

Spray dyeing machine



ABEP is the technical solution that consolidates the range of products manufactured by Loris Bellini for the application of special fine yarn in hanks:

- cashmere, alpaca, mohair, wool and blends
- natural silk and blends of viscose/wool
- filament viscose
- mercerized cotton
- very high bulk (VHB) acrylic for knitting.

The structure of ABEP is entirely manufactured using thick 316L stainless steel plates.

Its arms, which are mirror polished and have an internal liquor distributor, are designed to guarantee a uniform and constant flow along the entire length of the arm.

The tilting opening door of the machine is now provided with pneumatic pistons that grant even a higher level of safety and simplify further the global user experience with this system.

The pressurized air-pad system allows a working temperature of 102°C at sea level. This makes our ABEP independent from the variation of atmospheric pressure, thus allowing VAT dyeing and a more accurate regulation of the process temperature.

The arms are of extractable type for an easy loading/unloading operation of the hanks.

As standard, all ABEP machines are equipped with a magnetic flowmeter in continuous communication with the inverter for a constant flow no matter how many arms are in operation. In fact, all ABEP machines can work at variable loading by means of the manual exclusion (automatic as an option) of arms down to 50% of the nominal installed capacity, thus reducing the total production of each batch in accordance with the requirements of the dyehouse.

The rotating mechanism of the arms, entirely built with AISI 316L stainless steel, is self-lubricating and does not require maintenance.

The control of liquor level allows working at constant liquor ratio by setting the volume of the liquor in accordance to the arms in operation. Such solution brings a very high shade repeatability with a strong reduction of any possible shade corrections.

ABEP machines are available in different sizes, starting from 10 kg of the 2S up to 200 kg of the ABEP 20. In addition, it is possible to connect two machines in coupling mode for a total installed capacity of 400 kg.

ABEP machines have a very low liquor ratio of 1:10. Such reduced consumption of water, in combination with a low requirement of maintenance, ease of use and a very high dyeing quality, make it our ABEP a very special machine in its field, which is able to satisfy even the most demanding user.