

**SS Fabs**  
**ALS INDUSTRIES**  
DYEING MACHINES

**AUTO SPRAY**



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## GENERAL FEATURE

- This Machine has been specially designed for dyeing delicate yarns such as natural silk, Wool, Viscose, Rayon acetate, Mercerized cotton etc., for which treatments under liquor with forced circulation are dangerous.
- It is suitable for all wet treatments such as scouring, Treatment it is not necessary to touch the yarn any more, once it is put in the machine, This machine also can be used for degumming of silk yarn in hank form.
- This model, with first rate technical features, guarantees a perfect preservation of material and good dyeing result either particular attention to savings always important in any industry to day. The ALS auto spray machine is fully made of stainless steel and models are with 2-4-6-10 arms with possibility of coupling two machines of same model.
- A particular characteristic of the plant is the treatment of hanks suspended on tube and therefore not immersed in the liquor.
- Each arm is consisting of a tube, perforated on the upper side, from which liquor flows.
- At the ends of these tubes are placed plates to hold the hanks, a hank displacing rod rotates around the perforated tube lifting and moving the hanks so that their point of suspensions continuously changes. In this way it is possible to obtain an uniform dyeing on the whole hank.
- A special timer adjust the time intermission during hank rotations, according to fibers to be treated and dyes used.
- When the hank displacing rod rotates, liquor stops flowing to avoid yarn entanglements, with a savings of the time during the following unwinding. The wool yarn results without felts and silk yarn will be without fraying's.
- The treatment vat is so shaped in order to obtain reduced liquor ratio.
- The machine can also be used for 'degumming' the silk yarn after making certain changes.
- Quantity of liquor necessary for the complete sprinkle is adjusted by a special valve. Washing piping's connected directly with the water permit a deep washing of hanks with time and energy saving.
- The closing hood, equipped with inspection doors, reduces steam loss and keep temperature constant with consequent energy savings.
- Loading per arm depends on type of counts and fibers: with hanks of 67cm. Average loading is 4kg. For the finest counts, as silk orgargine and up to 8 kg. It is also possible to exclude some dyeing tubes on the same machine, in order to work with a reduced loading.
- The machine can be supplied with Two spindles, Four Spindles, Six spindles and Ten spindles arrangement. In addition to the standard machine for hanks of 67 cm. drop length model with deep vat for hanks having 110 cm length are available.