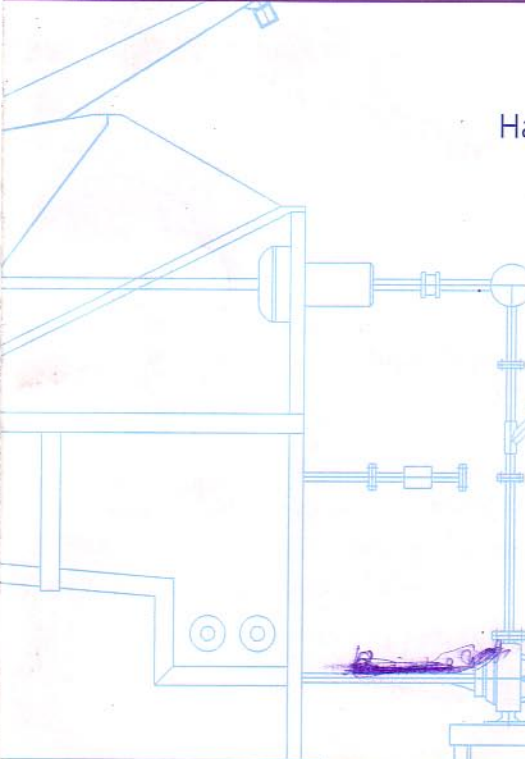




Hank Dyeing Machine (Spray Type)



GAGAN[®]
MECHANICAL WORKS

Hank Dyeing Machine (Spray Type)



HDS

Automatic spray type Hank Dyeing Machine (HDS). This HDS Model Dyeing Machine has been specially designed for dyeing of yarns in Hank form including wool, soft mercerized and Cotton, Visose, Polyamide, Silk and high bulk acrylics.

The HDS is designed to dye at temperature of up to 98° and starting liquor ratio of 1:5 depending on the loading and yarn Quality.

Technical Features

- ◆ Made up of SS 316 grade Quality.
- ◆ Large hinged hood for easy opening and for the easy excess to each arms. (pneumatic operated is optional)
- ◆ High efficient Circulation Pump made of SS316L with Electric Motor and mechanical seal.
- ◆ Mirror polished perforated tubes with dish shaped front and rear disc for hassle free movement of the yarn.
- ◆ Rotating hank displacing pipe is fit with Teflon bushes.
- ◆ A pair of rotating gears are made up of nylon which are driven by common geared motor.
- ◆ Inclined roof of special design, hence no dripping on the hanks.
- ◆ Geared motors for each pair of arms so that it can switched off when dyeing smaller lot and moreover if one motor gets broke down, the others are still running, thus saving the time & production loss.
- ◆ Manual controlled butterfly valves at each tubes inlet in order to regulate the flow and thus possible to disconnect any arm for smaller lot and it also ensure consistent even dyeing between the hanks loaded on different arms.
- ◆ AC inverter to control the flow of the liquor in order to maintain the required pressure.
- ◆ Specially designed steam coil for quick heating with pneumatic operated valves and steam trap.
- ◆ Chemical dosing tank in SS 316 quality.
- ◆ Perforated removable filter.
- ◆ Manual controlled water inlet and drain. (pneumatic operated is optional)
- ◆ Limit switch on the opening hood for the operator safety.
- ◆ Magnetic Bi-boloured water level indicator.
- ◆ Spot light inside the machine for inspection of material.
- ◆ Dial pressure gauge to keep the check of the flow.

S.S. Electrical Control Panel.

Control panel consists of:

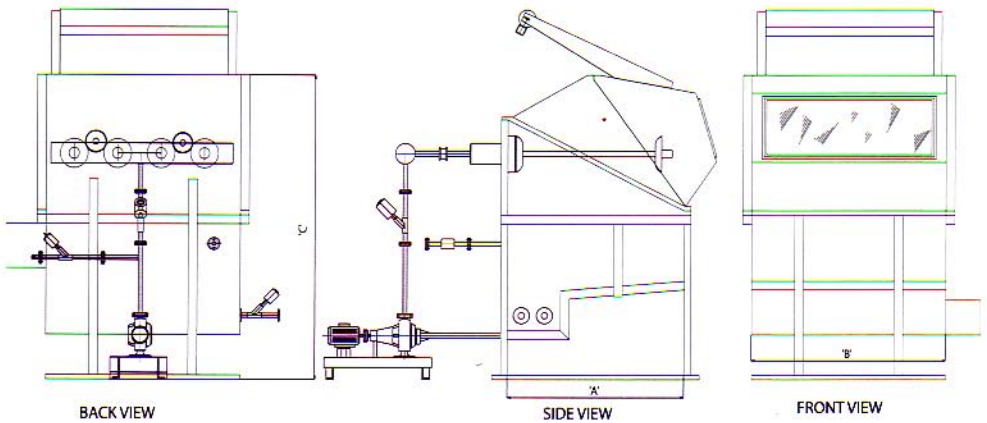
1. Digital temperature programmer & indicator.
2. Indicators & Switches clearly marked with individual operation.
3. Protection devices for the motors.
4. Electronic Circuit to permit 2-7 cycles of shifter Rotation.
5. Times for liquor Circulation.

Options

Full Auto or Semi - Auto with PLC & Touch Screen & A/C Drive for main pump.

PARAMETER

- ◆ Highest work temperature 98° C.
- ◆ Maximum Temperature in cremental ratio: 50° C/min(under 7 bar of saturated steam)
- ◆ Maximum cooling ratio: 40° C/min(under 3 bar cooling water. 25° C).



Specification

Model	No. of Tubes	Capacity (K.G.)	Total Power (H.P.)	Dimensions mm		
				L	W	H
HDS-VS	1	1 Kg	1.25	990	1540	2640
HDS-M	1	2 Kg	1.25	990	1900	2640
HDS-I	1	5 Kg	1.75	990	2500	2640
HDS-2	2	10 Kg	2.5	1280	2500	2640
HDS-4	4	20 Kg	4	1840	2500	1840
HDS-6	6	30 Kg	6	2630	2500	2630
HDS-10	10	50 Kg	10	4250	2500	4250
HDS-20	20	100 Kg	20	6520	2600	6520
HDS-30	30	150 Kg	30	9310	2750	9310
HDS-40	40	200 Kg	40	12950	2750	12950
HDS-50	50	300 Kg	50	18800	2900	18800

Note

- In the list above, whole length about poison mark to rod is 1200, and this dimension could be made to order in the scop of 600-1500mm.
- The amount of the spray tube listed above can be made to order.
- All models and also be coupled for higher capacities.

* All sizes & dimensions are subject to change.



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MECHANICAL WORKS

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