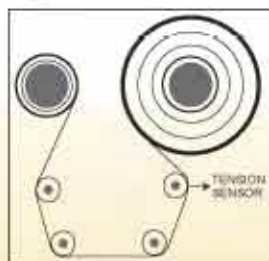




SEMITRONIK

AUTOMATIC OPERATION OF JIGGER MACHINE AUTO VAT DYER





MICRO CONTROLLER FOR FULLY AUTOMATIC OPERATION OF JIGGER MACHINE

The introduction of this unit is due to the fact that use of good quality and reliable mechanically operated automatic jigger costs exorbitantly and maintenance of the same is serious problem for the maintenance engineer.

SEMITECH AUTO VAT DYER AVD-102

Comprising of :

- i) **FABRIC LENGTH MONITORING UNIT**
To sense the length of the fabric under process.
- ii) **MICROPROCESSOR UNIT**
Complete circuitry on sturdy modular construction with following arrangements :
 - Keyboard for data feeding such as number of dyeing cycles etc.
 - ON/OFF manual/auto switches.
 - Push buttons :
For operation of :
 - Manual/auto.
 - Forward/reverse.
 - Stop.
 - Display systems :
To indicate length of the fabric and number of cycles completed etc.
 - Control system :
For forward and reversal operation of the motor.
 - Operating voltage :
220V +/- 50 c/s
or as per specific requirement.

THE INSTALLATION OF THE SYSTEM ON JIGGER MACHINE WILL RESULT IN :

- INCREASE IN PRODUCTION
- ENSURES QUALITY DYEING RESULT.
- REDUCTION IN LABOUR COST :
Complete dyeing operation is automatic, one operator can attend number of jigger machines.
- REDUCTION IN PRODUCTION COST :
Due to automatic operation, wastage of time is eliminated, resulting in more production with less labour involvement.
- REPEATABLE DYEING RESULT.
- ELIMINATES PROBLEM OF RE-DYEING.
- VERY SHORT PAYBACK PERIOD.

MODELS AVAILABLE

MODEL AVD-102

Programmer for operation of jigger dyeing machine/winch dyeing machine for :

- a) Forward/reverse operation.
- b) Number of cycles control with temperature and liquid level control.

MODEL AVD-104

The system for fully automatic operation of jigger dyeing machine for bleaching, scouring, dyeing and washing process. The system with logic controller for fully automatic operation between loading and unloading.

The system is also available with programmable online indication & control facility for :

- Temperature
- Time
- pH
- Level
- Concentration of :
 - Bleaching, scouring and washing chemicals
 - Sodium hydroxide
- Weight or denier reduction %

System has optional facility for serial interface with computer and data management software package.

SPECIAL FEATURES

- Microprocessor technology for operational reliability and durable operation.
- Easy programme setting arrangement :
Any operator can set the programme for automatic operation for bleaching, scouring, dyeing - washing cycle.
- Most economical.
- Sturdy construction :
Ensures longer life.
- Instant status :
Display is provided for the length of the fabric passed and number of cycles completed etc.
- Plug-in type modular construction for ease of maintenance and to reduce down time.
- The automatic operation of the unit is not affected by the shrinkage/elongation, which the fabric undergoes during dyeing on jigger machine as electronic circuitry takes care of the same.
- The system has facility to hook-up jigger machine with tension controlled drive for fully automatic operation.
- Dosing of chemicals :
Module available for progressive or linear dosing of chemicals as per requirement.

System has optional facility for :

Programmable indication and control for:

- Temperature
- Time
- pH
- Level of liquor
- Concentration of :
 - Sodium hydroxide
 - Hydrogen peroxide
 - Bleaching, scouring and washing chemicals
- Weight or denier reduction de-weighting %
- Fully automatic operation of jigger machine including automatic feeding of required volume of chemicals, dye-stuff and auxiliaries from stock tanks/preparation tanks.
- Dyeing data management software package.



AVD-2 SENSOR

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