



CEDİT MAKİNA Elektronik Tekstil
İnş. İth. İhr. San. ve Tic. Ltd. Şti.

CEDİT DIGITAL YARN DYEING MACHINE (FULL LINE)



Technical Specifications:

Type	: Cedit Digital Yarn Dyeing Machine (Full Line)
Purpose of Usage	: Multi-Color Dyeing of Yarns
Dyed Yarn Types	: Polyester, Viscose, Acrylic, etc.
System temperature	: 98° C
Programming system	: Yes
Spray System	: Electric Control Valves
Construction	: All Stainless Steel -AISI304L
Control	: Fully Automatic PLC System





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General Features :

Our dyeing line consists of 6 groups:

1. Cone Creel
2. Dyeing Unit
3. Yarn Spreading Fixing Unit
4. Washing, Softening and Squeezing Unit,
5. Infrared Dryer Unit
6. Hank Winding Group

1. Cone Creel:



The feeding creel which is arranged by the bobbins, 56 pieces of working and 56 pieces of spare, totally 112 (standard) bobbin capacity. With the ceramics placed in the yarn passages, it is not possible to engage in yarn flow. Thread tension can be adjustable before entering the dyeing unit. Modular Type. Equipped with sensors and tensioners. .

2. Dyeing Unit:



Our machine has 6 colors yarn dyeing capacity.

With special combs in the machine, the yarn is divided into two and enters the dyeing chambers regularly from the machine entrance.

Then, according to the program written, dyeing process takes place at the desired meter. Each dyeing unit applies the same process to dye the color of the desired size. In this way, a report dyeing process takes place.





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Cedit Makine controls the dyeing process with the special software developed for this machine.

The dyeing process is carried out specially selected nozzles and pumps smoothly and without problems.

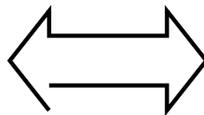
Filtering system on the machine has been added to the system in order to prevent clogging of the nozzles. Precise dye spray pressure adjustments can be made with the relief valve on the machine.

The dyed yarns coming out of the dyeing tunnel pass to the rear unreel group on your existing machine and the process continues.

Speed of dyeing unit: 200 m / min

Special Conditions:

- 2 sets of nozzles will be supplied with the machine for different yarns. (1 set will be spare on 1 set.)
- All electrical components on the machine's control panel will be made using best-in-class products such as Siemens, Omron, and Phoenix.



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3. Yarn Spreading Fixing Unit with Unit:

There is yarn spreading device placed after the dyeing unit before the yarns enter the fixing tunnel. Inverter control speed of device and motor parameters are controlled easily from the touch screen. After spreading device, the dyed yarn enters the fixing tunnel. Temperature 98°C.



Fixing tunnel 15 meters length has steam heating system. Sensitive heat controlled. All fixing group will be made of stainless steel material.304 Quality.

The whole of the fixing tunnel will be isolated against heat losses.



Conveyor band speed is adjustable by inverter control. This prevents to run the fixing tunnel in estimated speed synchronized with the full line.

4. Washing, Softening and Squeezing Unit:



After fixing tunnel there are shock washing and softening units included.

The squeezing process will be done with pistons that can be adjusted with pneumatic control. The pressure cylinder (stainless steel) press power is adjustable according to desired value.





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5. Infrared Dryer Unit :

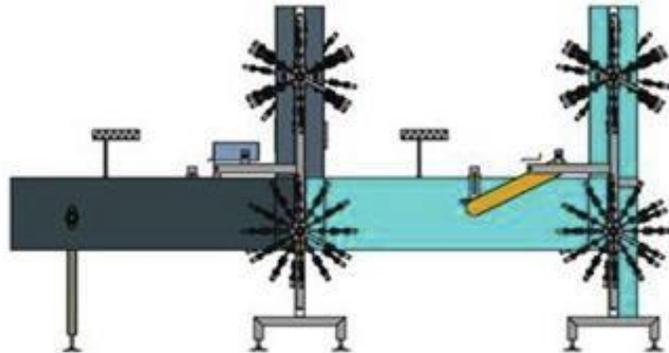
It is located after washing, softening and squeezing unit. Infrared drying system with conveyor belt. The unit works synchronized with the line.



6. Hank Winding Unit:

The hank winding group, which works synchronously with the line, is the unit in which the dyed yarns are wind into hanks. 56 threads can be wind as hank form at the same time. There is a unit for stable yarn tension for synchronize the line and winding unit. It is possible to take the dyed hanks from the spare hank winder during the machine is operating.

- 2x56 pcs hank winders
- 56 pcs active & 56 pcs reserved
- Thread guide combs for 56 pcs threads



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