

DaeLim
MiniTenter
Model : DL-2015



DaeLim Starlet Co., Ltd.

본 사 : 경기도 시흥시 정왕동
(시화공단 2바 115호)

Tel : (031) 499 - 6446

Fax : (031) 499 - 6448

115, 2Ba, Jeongwang-Dong,
Shiheung-Si, Kyungki-Do, Korea

Tel : (031) 499 - 6446

Fax : (031) 499 - 6448

Purpose

-Lab. Mini Tenter

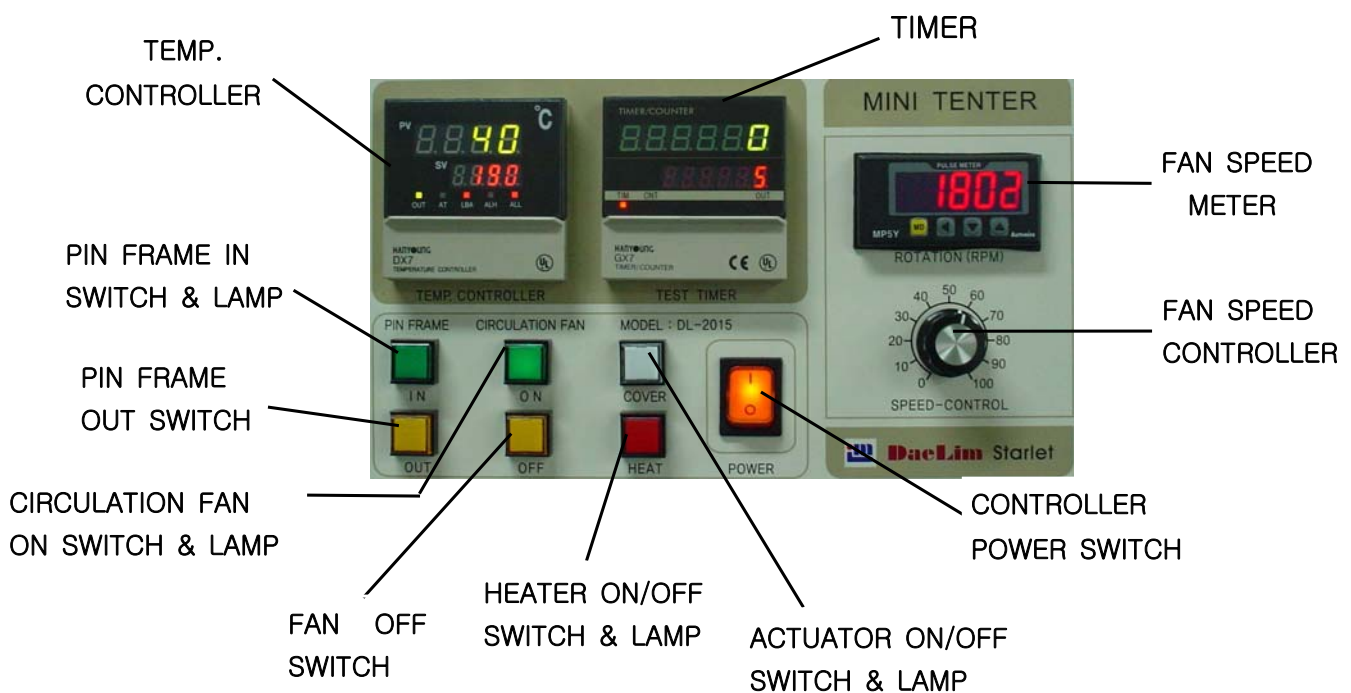
Feature

- *Exact temperature distribution inside of chamber. Therefore, same circumstance with factory.
- *The possibility of simultaneous use with coating testing machine.
- *Symmetric & Compact design
(No tunnel system, minimum space for installation).
- *Machine can precheck a color difference due to industrial chemical (auxiliaries) processing such as composition, before progressing Tenter operating.
This machine can keep the character of Spandex such as recovering.

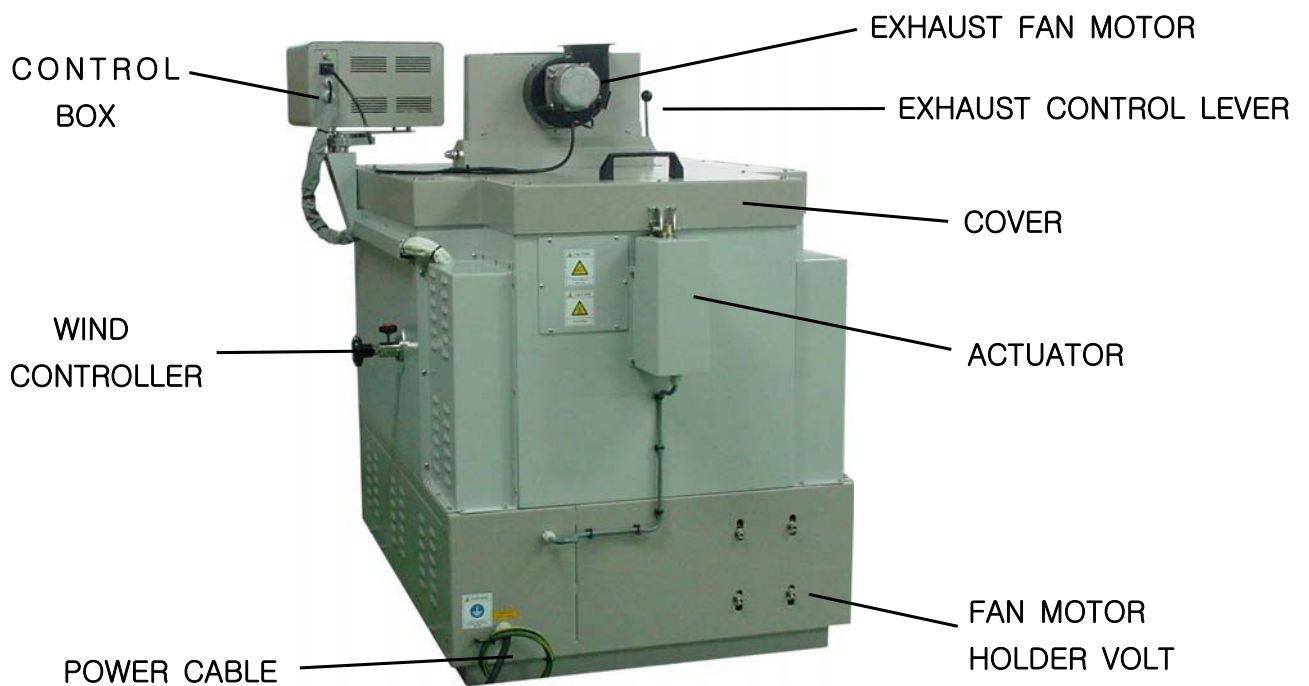
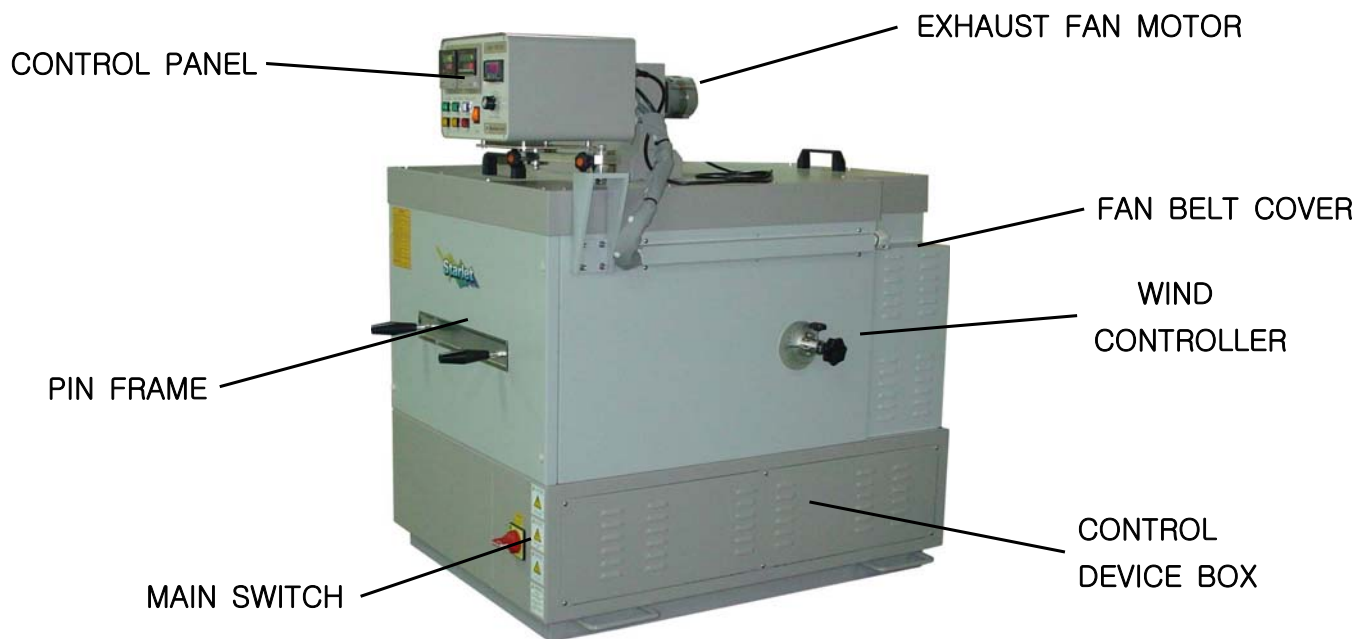
Specification

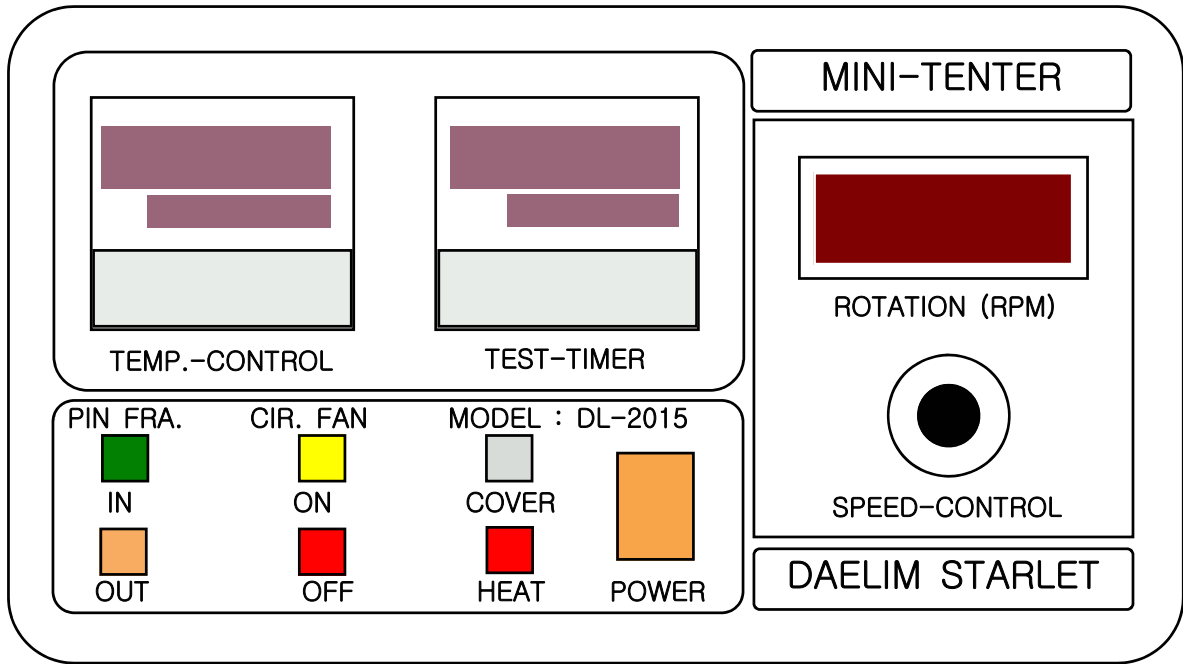
| | |
|-------------------------|---|
| Sample size | 330 X 430mm |
| Temperature controller | Digital PID type |
| Temperature sensor | PT 100Ω |
| Temperature range | 20 ~ 250℃ |
| Cooling system | Cover open (power cylinder) Fan air circulation |
| Material | Interior – SUS#304 Exterior – SS#41 powder coating |
| Fan speed | 700 ~ 2300 rpm/min |
| Dry time | 1sec.~99min.(user setting) |
| Circulation fan rpm | 700~2500rpm/min |
| Circulation fan motor | 0.75Kw 3Φ(Inverter Control) |
| Heater | 7200W |
| Over heat limit | 280℃ |
| Pin frame(in/out) Motor | 100W gearedmotor |
| Pin frame speed | 0.2 ~ 5 m/min |
| Weight(approx.) | 200Kg |
| Dimensions(approx.) | 960(W) X 1460(D) X 950(H) |
| Pin & NET FRAME | 5 SETS |

Tex Dryer – Front View



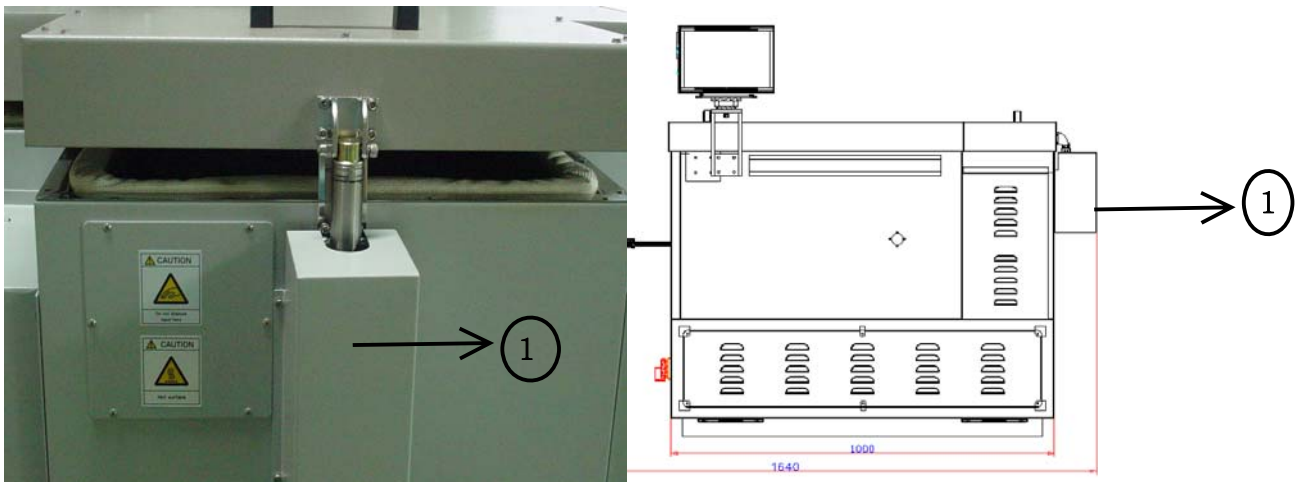
Tex Dryer – Side view, Back Side View





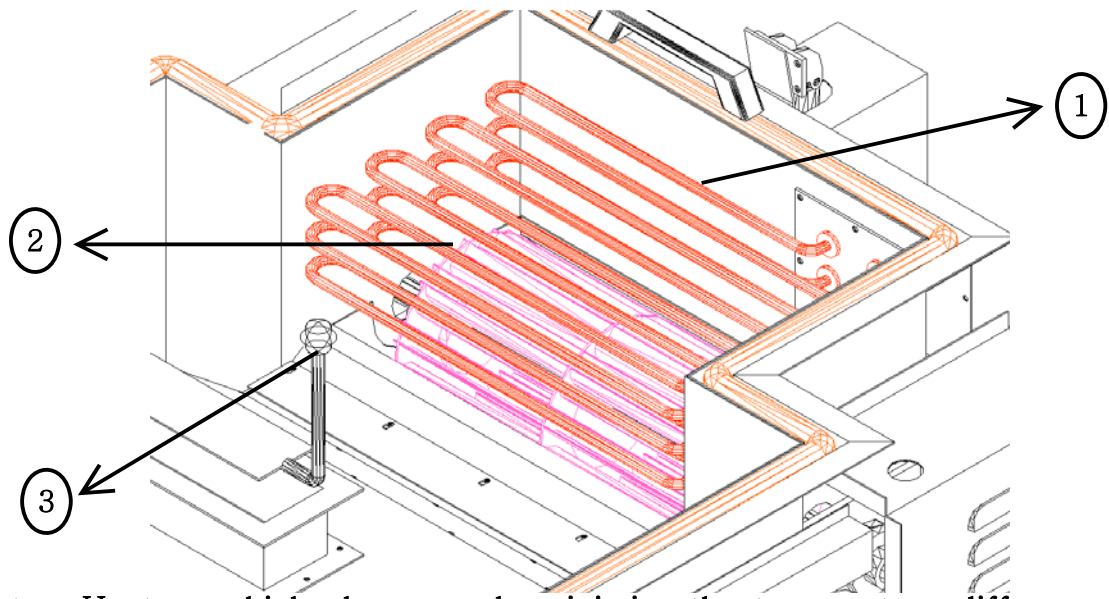
***Controller**

User can easily learn how to set up the controller. Controller have the option that set up programs in which parameter like dwell times, temperatures, fan speeds can be inputted. And the datum that user sets up will control parameter in proper way such as temperature, time, fan rotations etc.



***Electrical Power Cylinder**

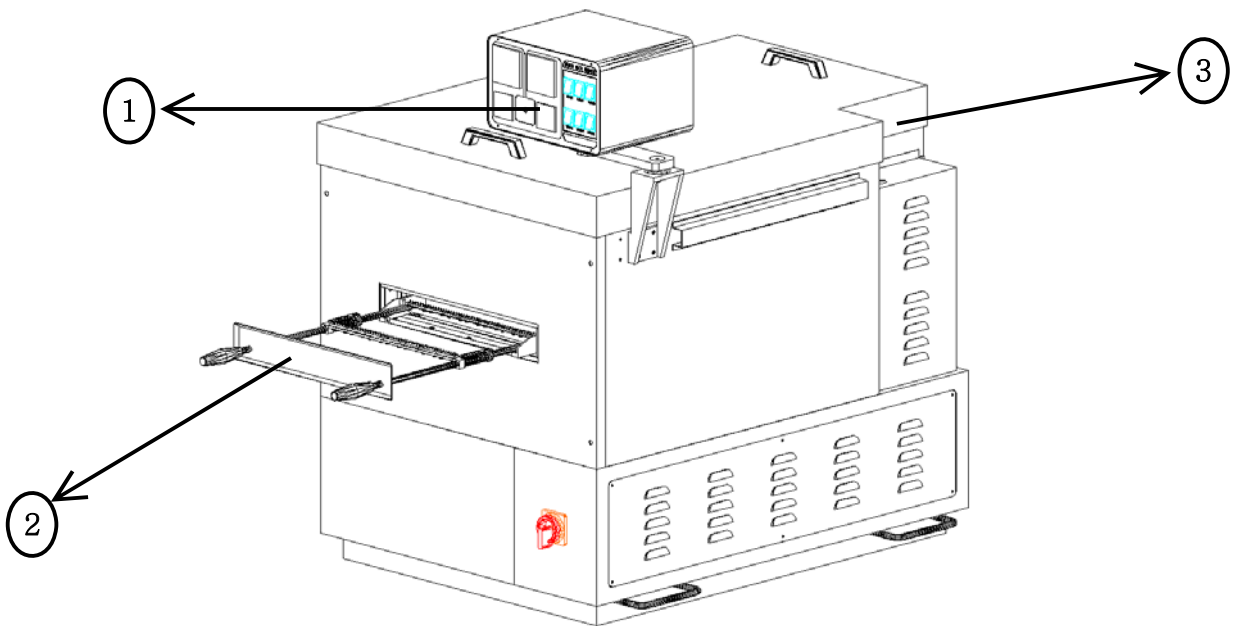
1) No need Air Pressure. Electrical Power controls the Cylinder smoothly.



1) Heater: Heaters which place evenly minimize the temperature difference.

2) Fan: High speed fan makes heating circulation excellent.

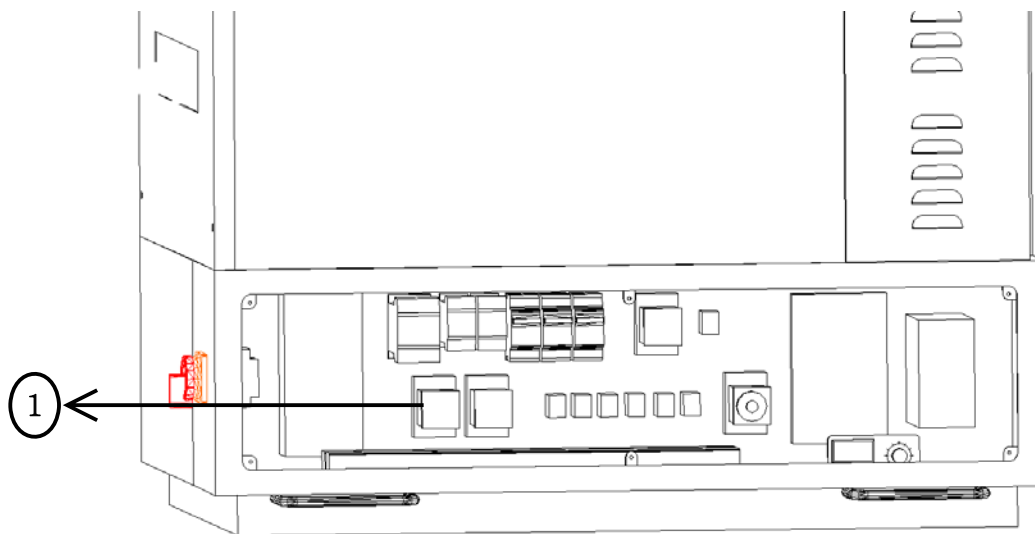
3) Air direction Lever: User can control air direction easily by this part.



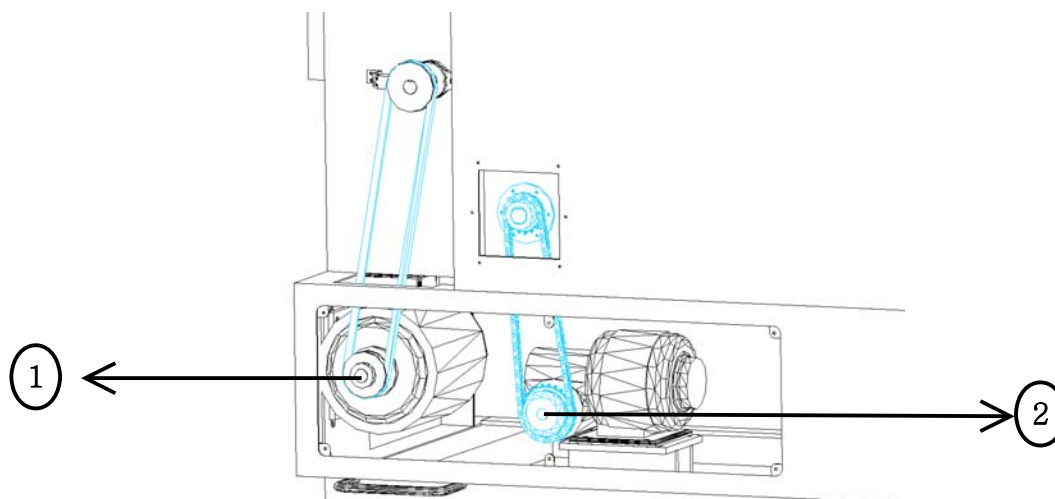
1)Controller: Easy to operate the machine.

2)Pin Frame: The machine is designed to consider the stability of Pin Frame, when user fix the Pin Frame.

3)Cover: Easy opening to inspect, clean the machine and help to cool the machine.



1)Right panel: Easy to inspection and after service(A/S).

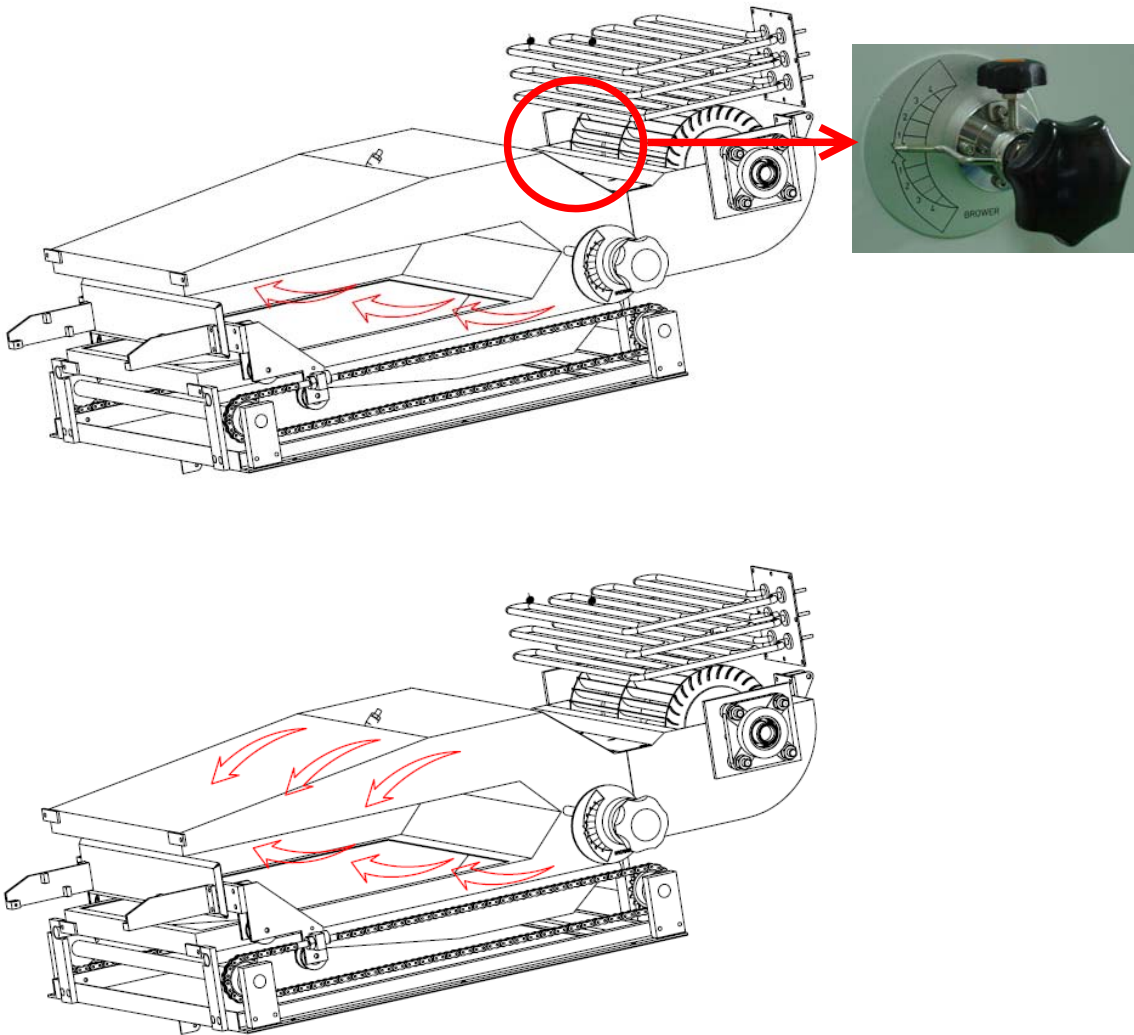


1)Inverter Motor(AC): To reduce operating noise and lengthen it's span of life.

2)Clutch: To minimize overloading

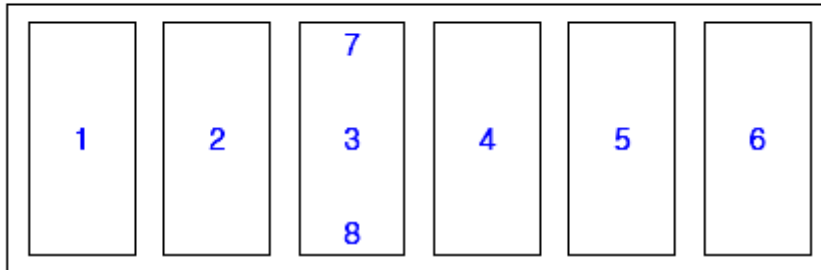
Adjusting Air current Direction

* You can select the current of Air inside of machine by adjusting the lever.



***, DATA OF COLOR STABILITY TEST**

- Fixing : Steamer for 8min at 180℃
- Substrate : Spun polyester piece
- Printing screen



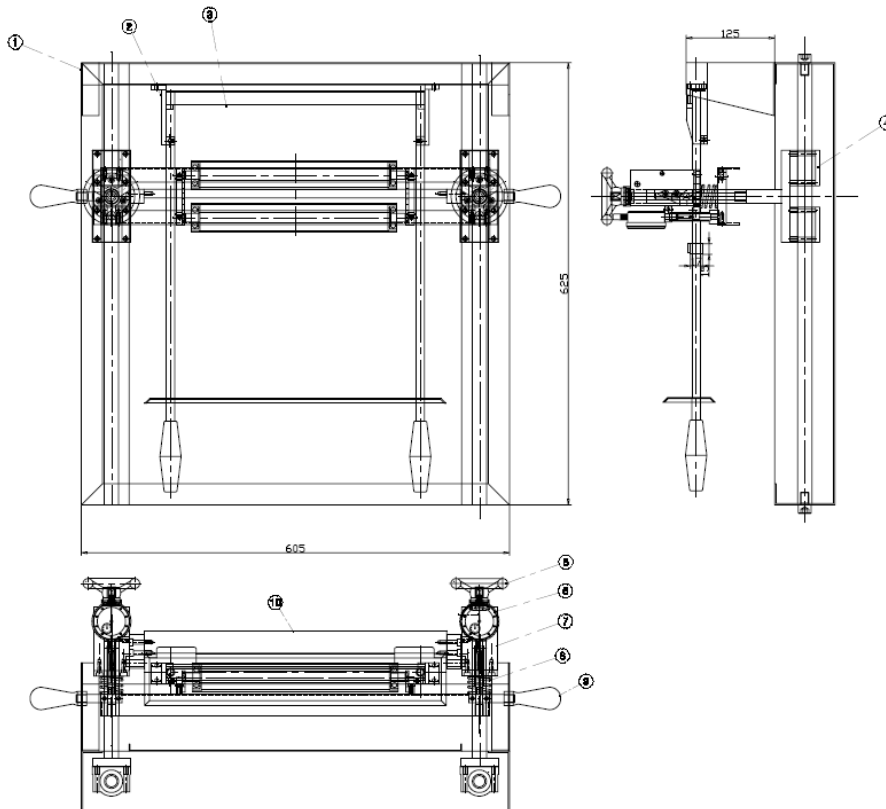
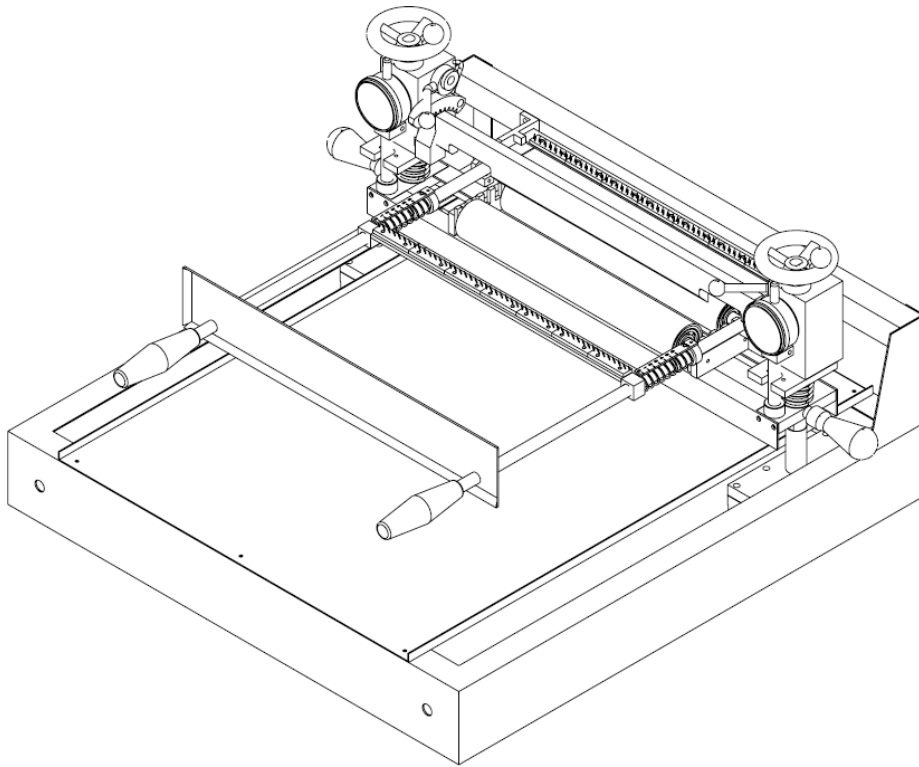
*** Sample : Disperse Black A**

| Position | 1 | 2 | 3 | |
|----------|---|---|---|--|
| 10g/kg | | | | |
| | | | | |
| | 4 | 5 | 6 | |

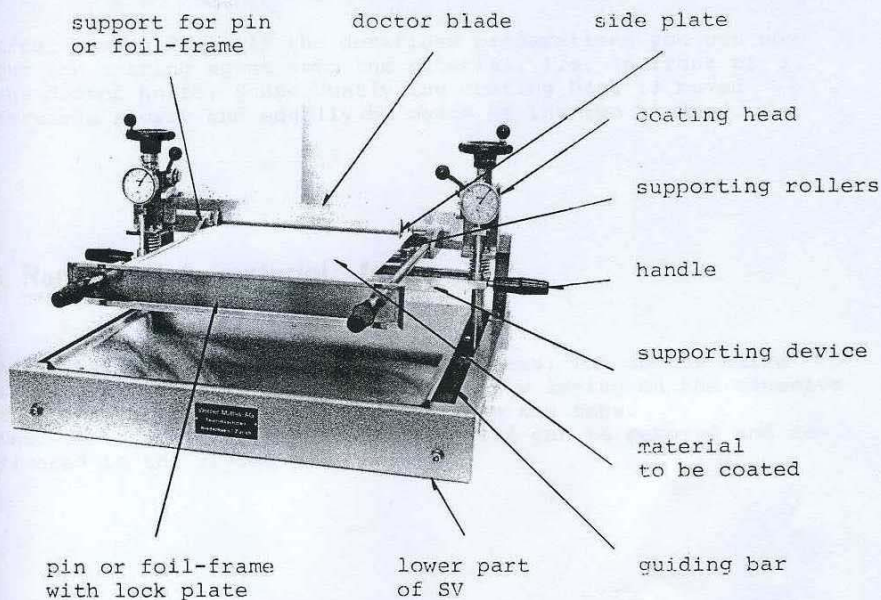
*** C.C.M DATA**

| Comparison | Strength(%) | dH | dC | dE | dL | da | db |
|------------|-------------|-------|-------|------|-------|-------|-------|
| 1 : 2 | 100 | -0.08 | -0.08 | 0.12 | 0.03 | -0.09 | 0.07 |
| 3 : 4 | 101 | 0.03 | 0.10 | 0.11 | -0.02 | 0.03 | -0.10 |
| 5 : 6 | 100 | 0.05 | 0.05 | 0.07 | -0.00 | 0.05 | -0.05 |
| 1 : 6 | 98 | -0.07 | 0.07 | 0.09 | 0.00 | -0.07 | -0.07 |
| 7 : 8 | 101 | -0.02 | -0.04 | 0.05 | 0.01 | -0.02 | 0.04 |

*. Coating Device - You can attach Coating Device as an additional accessory.
(Separately or Assembly with Mint Stenter)



pict. 9)



Attention: The supporting device is equipped with a clamping device and can be adjusted in height if necessary.

4.5 side plates

In order to avoid a running-off of the coating agent the doctor knife is equipped with side plates which are adjustable. (see also pict. 9).

4.6 doctor knife, adjustable in height

By means of the two hand-wheels the doctor knife can be adjusted in height to fix the coating thickness. By twisting the scale of the clock you can always adjust the "0"-point. The reading-off accuracy of the measuring clocks is 0.01 mm (1 thou. inch = 0,025 mm)

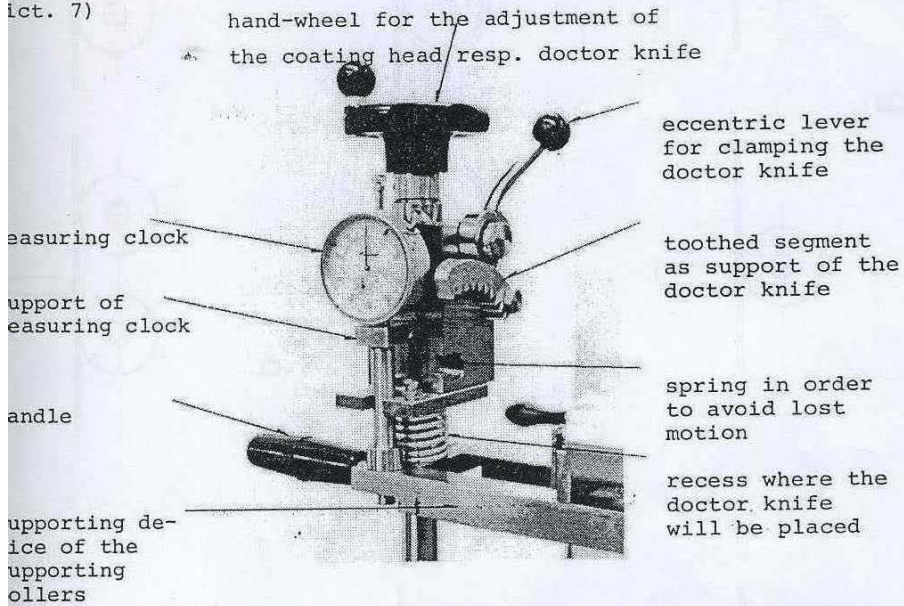
4.7 determination of the "0"-point

The "0"-point has to be determined before coating. For this purpose the doctor knife has to be put towards the material until it touches the latter very slightly.

.2 coating head

The coating head is designed that all different supplement parts are easily and quickly applicable.

ict. 7)



.3 supporting rollers

The supporting rollers which are placed under the coating head are easily exchangeable and applicable for the following coating methods:

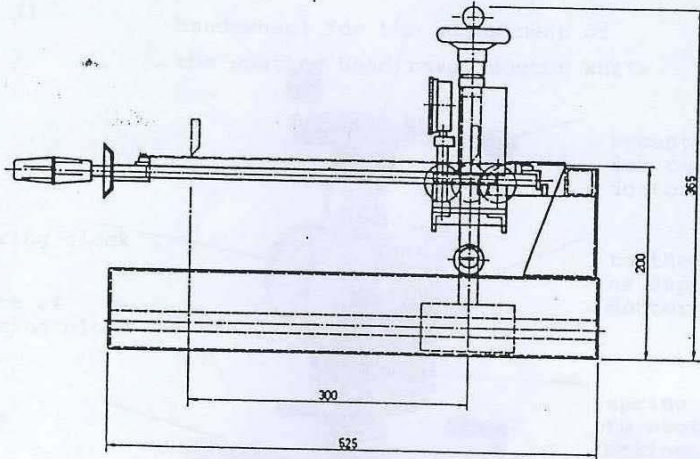
- a) air doctor - coating
- b) rubber cloth - coating
- c) roller - coating

see page 5

2. Required space

see picture below.

pict. 6)



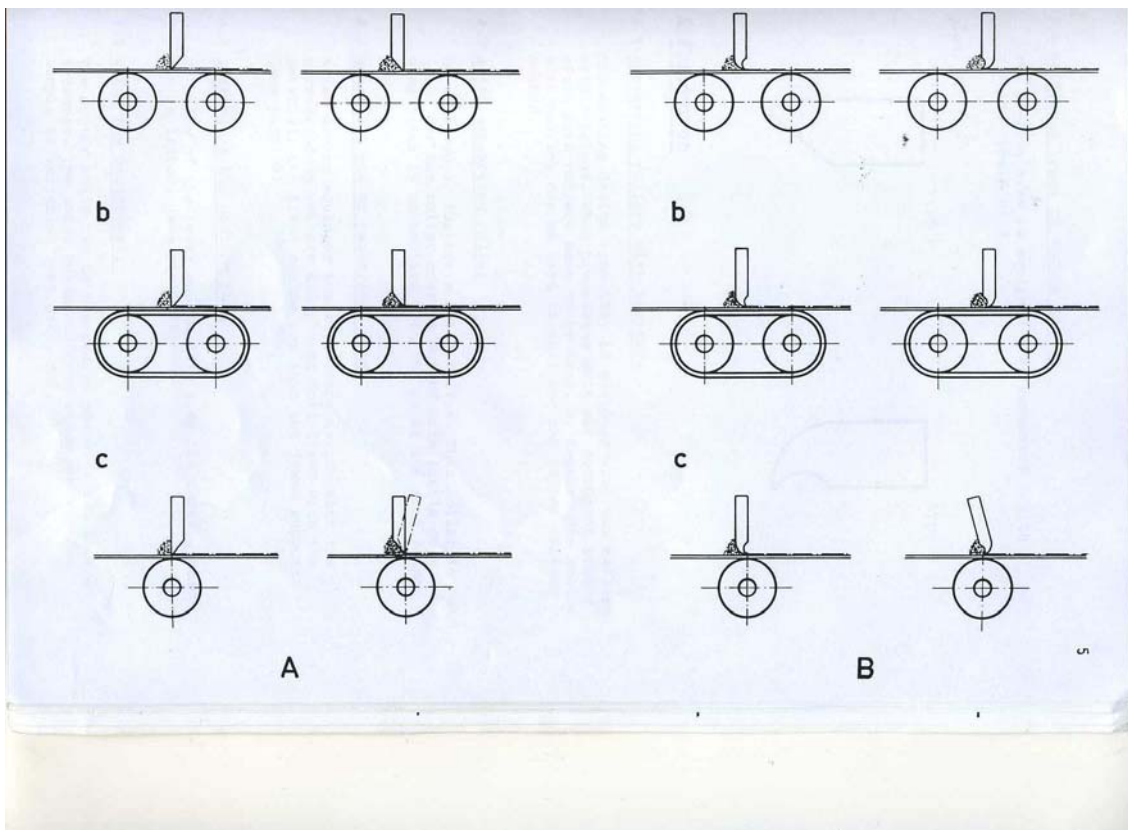
width of the coating device SV: 605 mm

3. Construction of the coating device

3.1 general description

The coating device SV consists in principal of:

- a) the lower part with the guiding bars
- b) the holding device at which the coating head and supporting device are mounted.




6

3.4 different types of doctor knives


The coating head is equipped - as requested - with a knife type A or B.

pict. 8)

type A



type B



4. Preparation

4.1 supporting rollers with bearings

The coating device type LTSV is equipped with two rollers with bearings. When processing with air doctor or rubber cloth both rollers have to be used. By request one roller with bearing can be used as well for the roller coating method.

4.2 stiff supporting roller

We will supply further a stiff roller. This roller is mainly used for the roller coating method with little coating quantities in connection with the paper and foil frame.

4.3 using the pin or paper/foil frame

After having equipped the supporting device with the corresponding rollers and pin or foil-frame with the material, the frame can be put into the frame support. (see pict. 9)

4.4 lifting of the coating head

By means of the lever on the left side the coating head can be lifted. (see pict. 10)

4.5 using the doctor knife

The doctor knife can be clamped by means of two toothed segments, the angle between doctor blade and coating sample is variable. (see pict. 4)

*. The Mini Stenter with Coater(Assembling Type)

Pic 1)



*. The Mini Stenter with Coater(Assembling Type)

Pic 2)



