

# MANUAL

## Fabric Inspection Machine

### CMI-210R



**D**ear customer,

Thank you for choosing a product from Svegea of Sweden.  
Please note that Installation, operation and maintenance should be carried out by trained personal.  
Please take the time to read these instructions carefully and in advance. If you follow all the instructions, you will save yourself much time.

It is also essential to read the instruction manual because incorrect use of the equipment can damage the machine itself, other parts of the system and give personal injuries.

Svegea of Sweden AB  
Junogatan 5  
SE-451 42 Uddevalla  
Tel: +46 522 36800  
Fax: +46 522 33399  
e-mail: [info@svegea.se](mailto:info@svegea.se)  
[www.svegea.se](http://www.svegea.se)

## Contents

Safety and cautions.....	4
Technical data.....	5
Operation functions.....	6
Meter/Yard counter.....	7
Mechanical assembly.....	8
Fabric threading.....	8
Operation - Roll to Roll.....	11
Electric connections.....	18
Maintenance and service.....	26
Electric components.....	28

## SAFETY & CAUTIONS

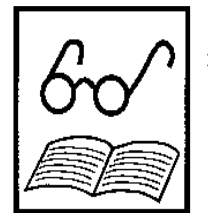
Keep hands away from shafts and rollers at all time.



This machine only to be operated by authorized and trained personal.



Never operate this machine with any guards removed.



Maintenance/service only by authorized personal.  
Before performing - disconnect from the mains.



Maintenancr/service **inside** the machine only by authorized personal.  
Before performing - disconnect from the mains and wait **two minutes** for the intermediate circuit capacitors to discharge in the frequence inverters.



### Technical Data

Maximum Operation width	2100 mm
Maximum Roll diameter	500 mm
Machine speed	Inf.variable, electronic
EdgeAlignment Device Meter/Yard counter, electronic	
Motor Power	1.5 Kw
Power:	220V, single phase, 50/60 Hz
Machine dimensions	2680/1580/1860

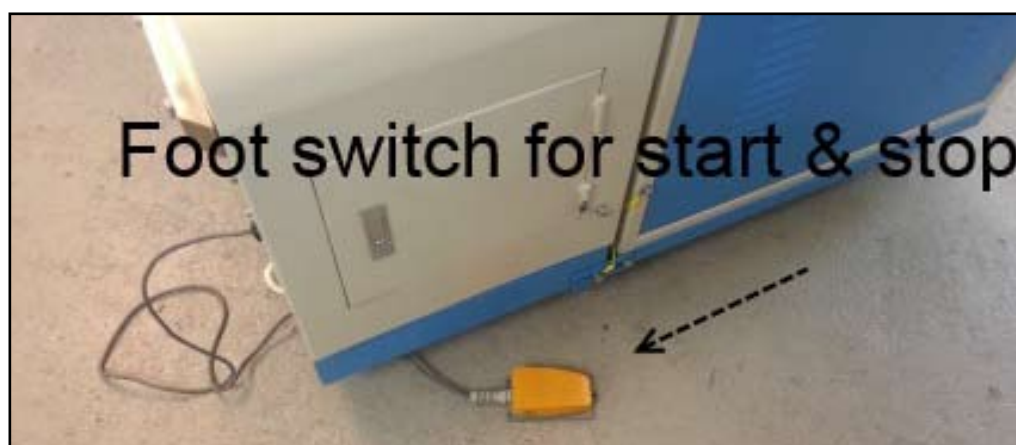
### Operation function setting

1. Power switch
2. Upper light
3. Lower light
4. Spread roller
5. Auto/Manual
6. Meter/Yard counter
7. Speed control
8. Tension control
9. Fwr/rev rear
10. Frw/rev front
11. Left
12. Right

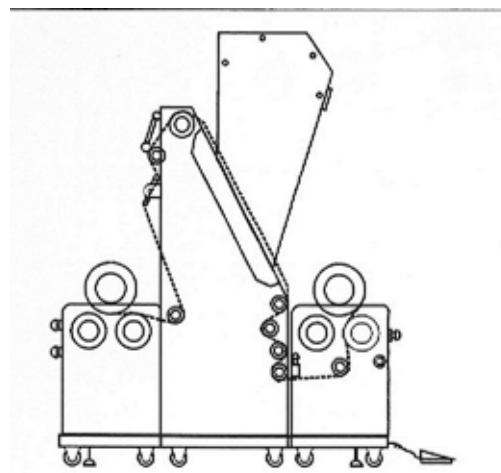
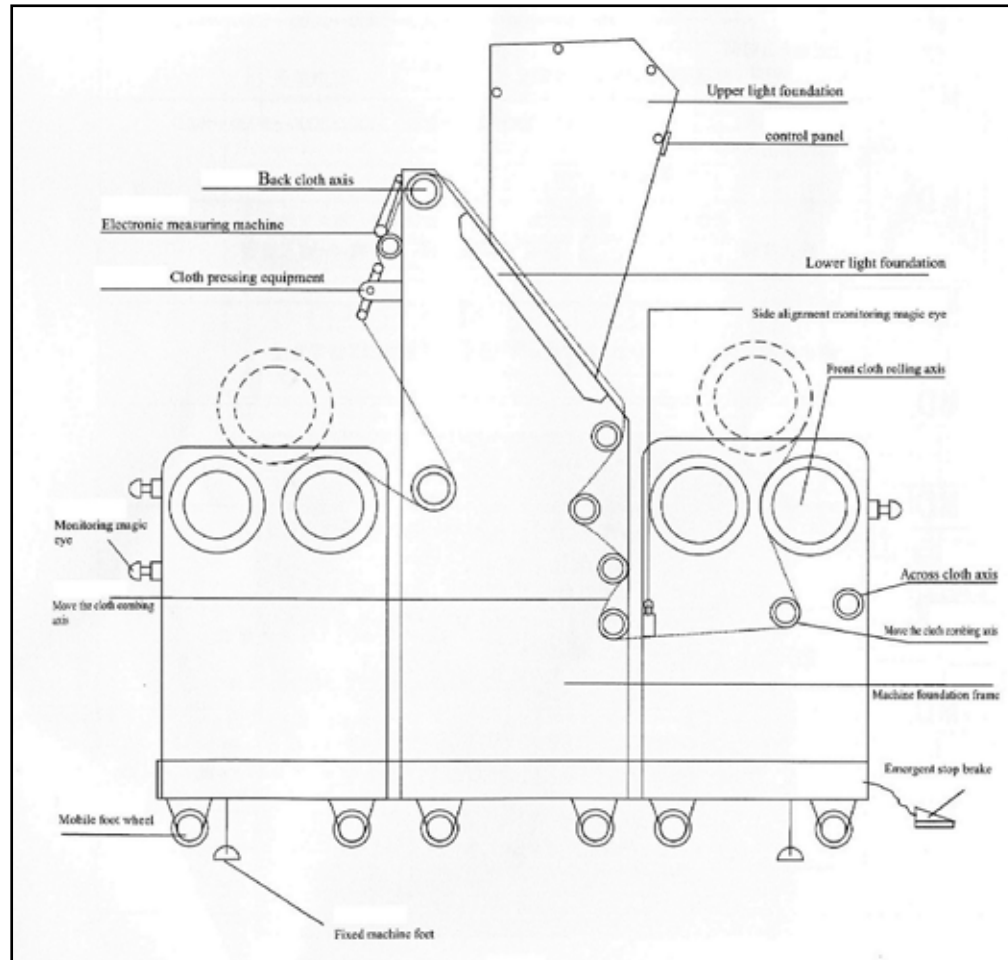


\* Flip switch could have a middle position

1. Power supply: 220V, single phase, 50/60 cycles  
Power to be connected by an authorized electrician
2. Turn on the machine with power switch (1)
3. Set flip switch in forward position (9/10)
4. Set potentiometer at a moderate speed (7)
5. When flip switch (5) in manual position alignment position knobs 11 and 12 can be used. When flip switch (5) in auto position alignment is working with edge sensor
6. Start and stop machine with foot switch/pedal.
7. The Spread rollers are operated by switch 4



## Illustration on Mechanical assembly





## Manual CMI-210R

---



### Operation of fabric inspection

1. Put the fabric roll into position (see illustration page 11)



2. When fabric roll in position and center bring in the guides.



3. Feed the fabric as shown on Illustration page 11







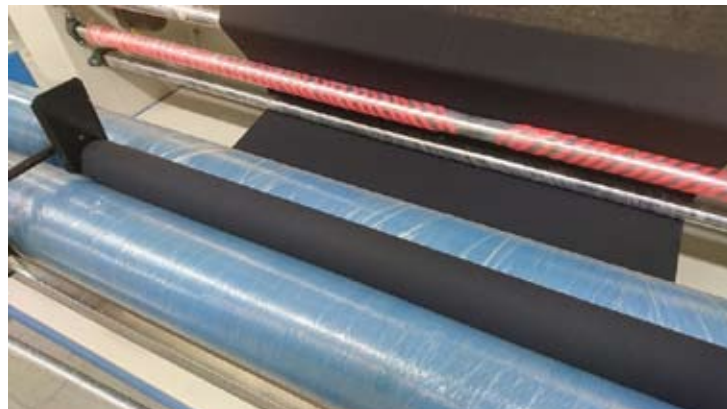
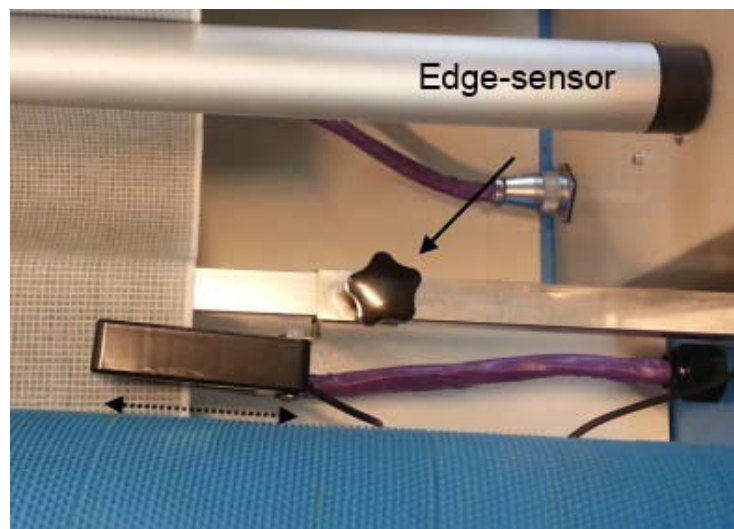
4. Roll fabric around paper core.



5. Set the guides in position.



6. Set edge-sensor in position



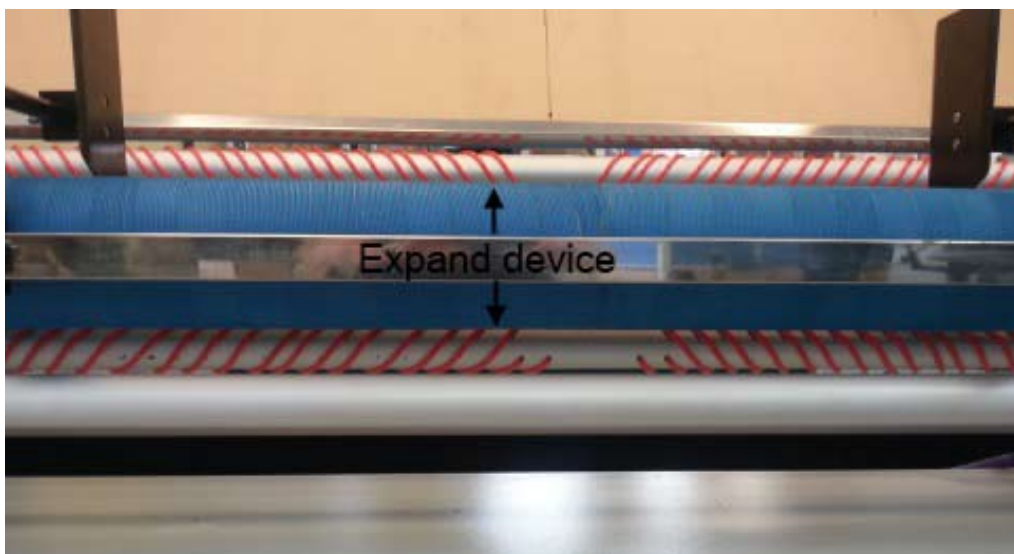
## Manual CMI-210R

---



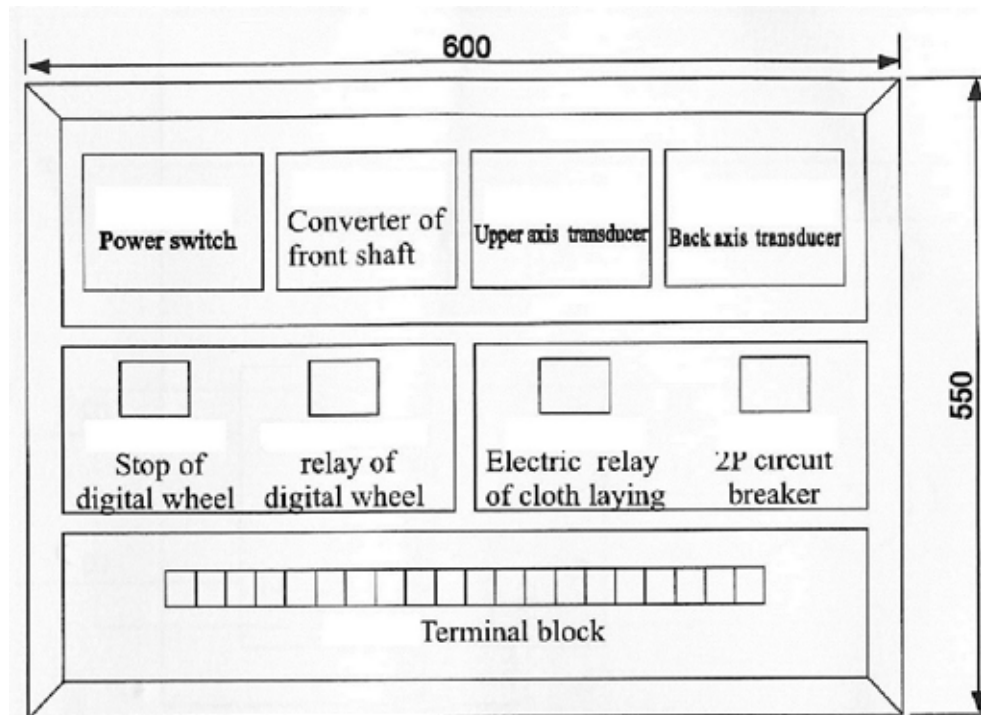


7. Expand device rollers are operated by switch (4) on panel

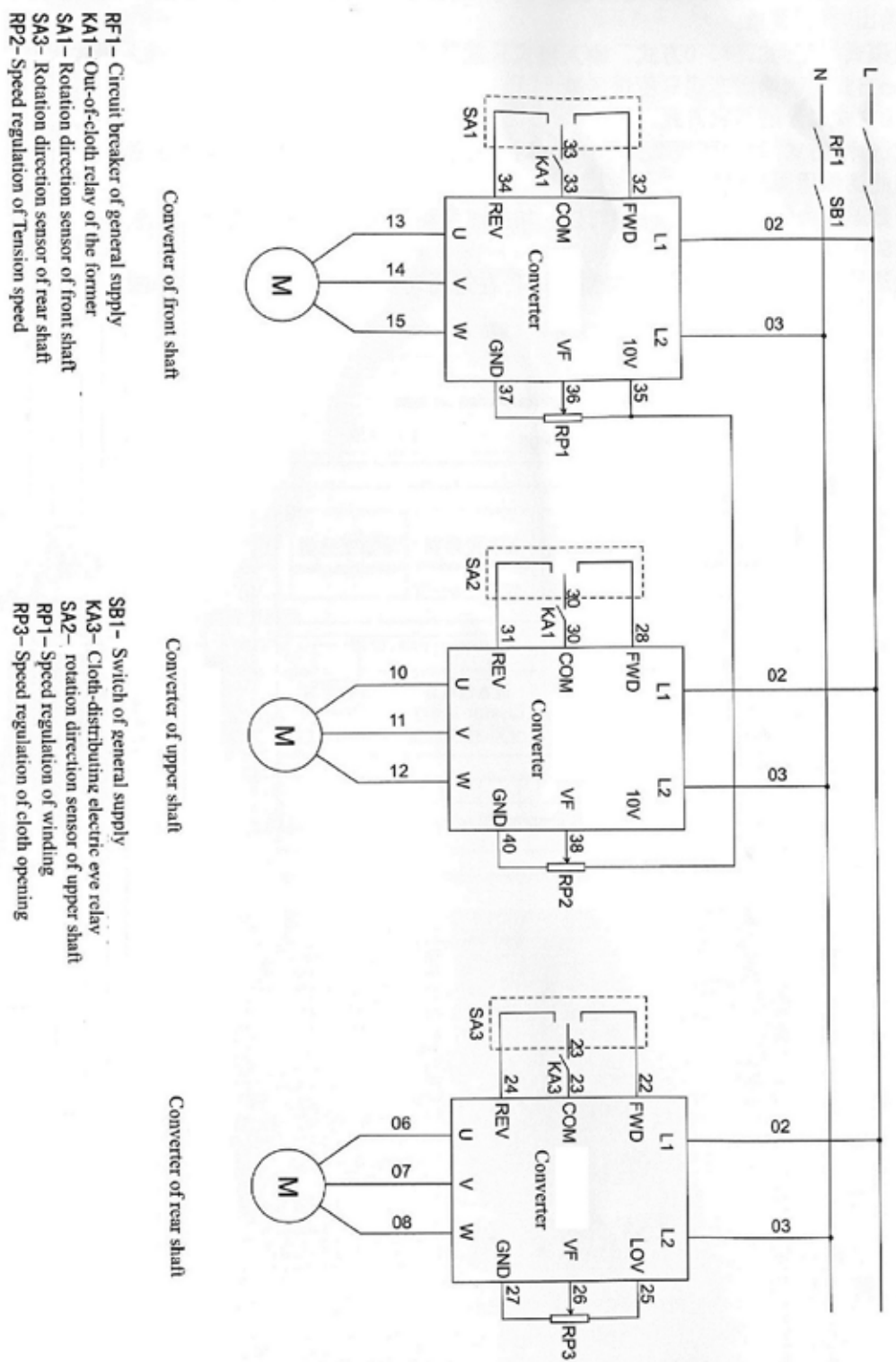


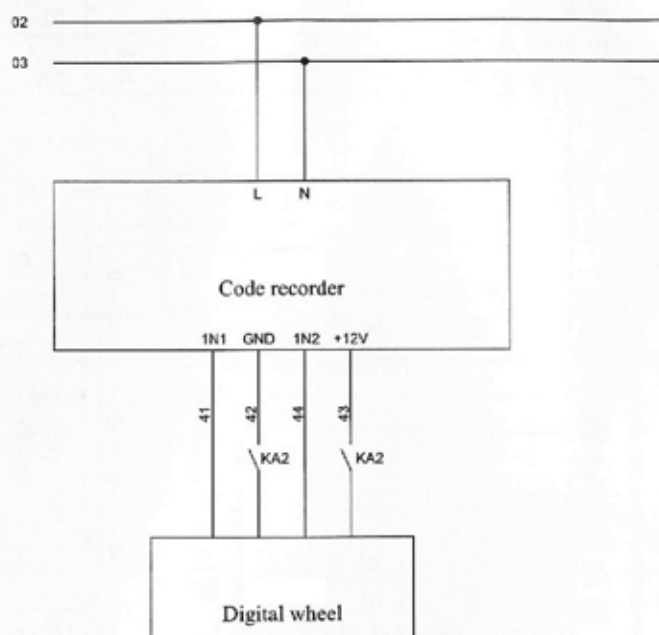
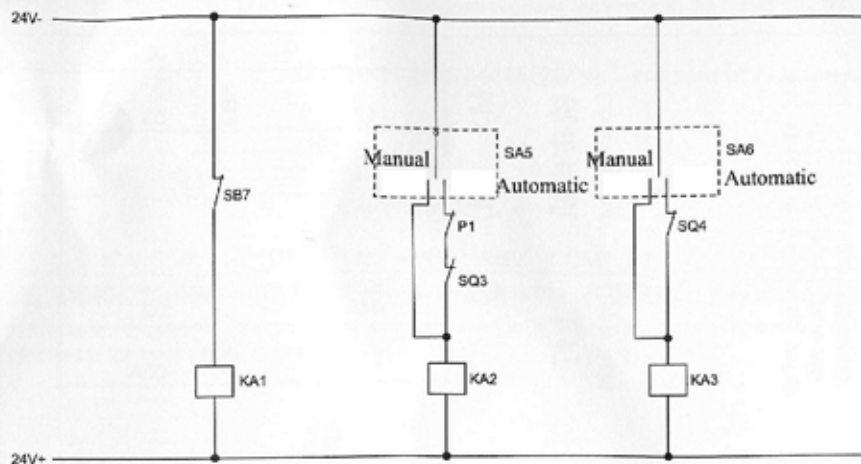
8. Set the potentiometer (7) at a lower speed.
9. Choose Auto edge control with switch 5
10. Set requested fabric length on Meter counter.
11. Set switches (9/10) Forward position.
12. Start and stop the machine by pushing the foot switch.
13. Check tension and if needed adjust potentiometer (8).
14. After Inspection is complete have the fabric roll wrapped with stretch plastic film, paper or adhesive tape.

## Electric board assembly map

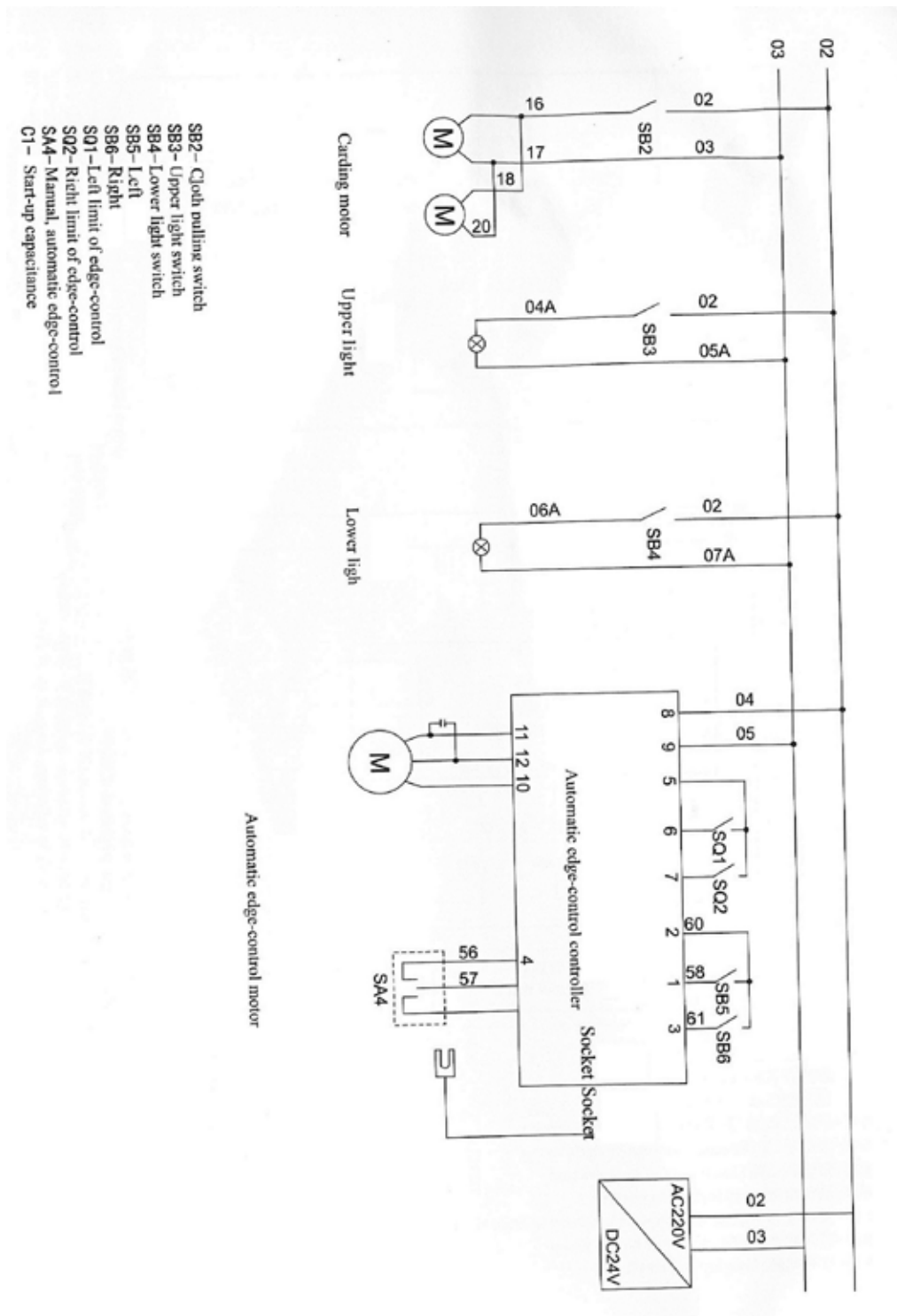


## Electric diagram





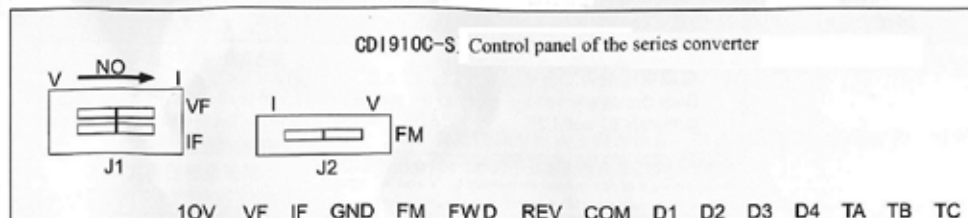
- SB7- Foot switch
- P1 - Code recorder
- SA5- Manual/automatic switch
- SA6- Manual/automatic cloth laying
- SQ3-Electric eye of digital wheel
- SQ4-Cloth laying electric eye
- KA1-Out-of-cloth relay of front shaft
- KA2-Electric eye of digital wheel
- KA3-Cloth laying electric eye



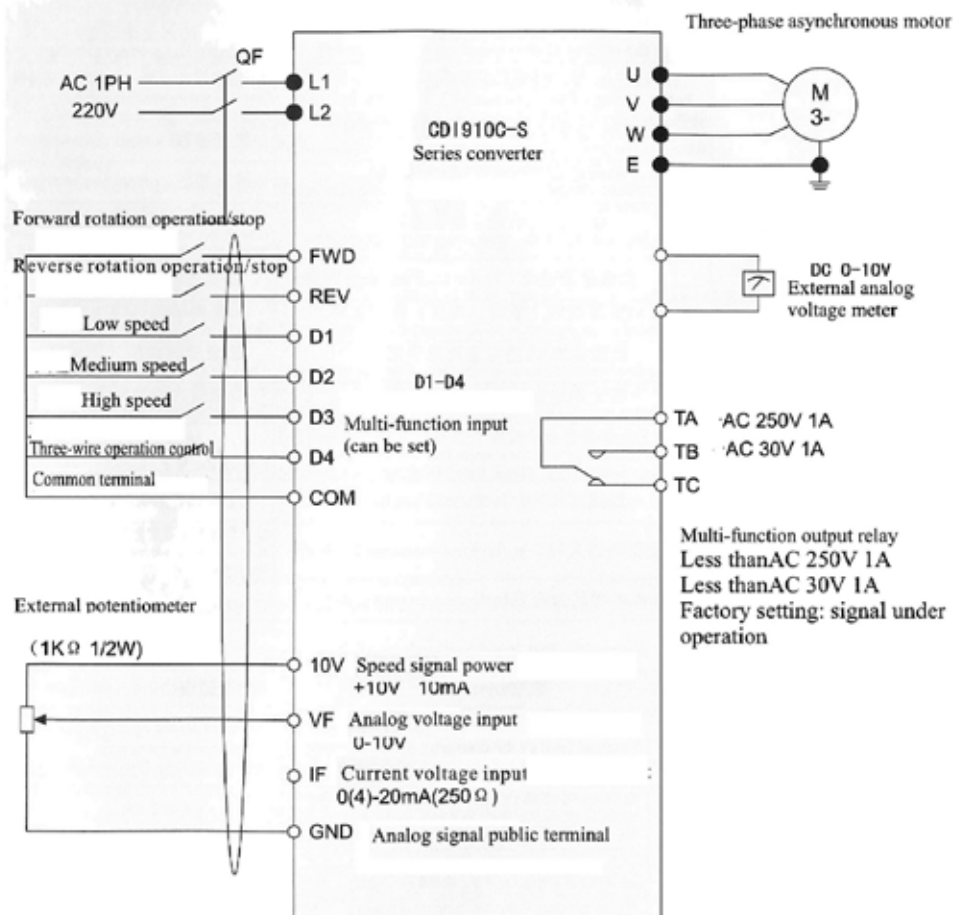
## Terminal connection diagram

Wiring of the control circuit

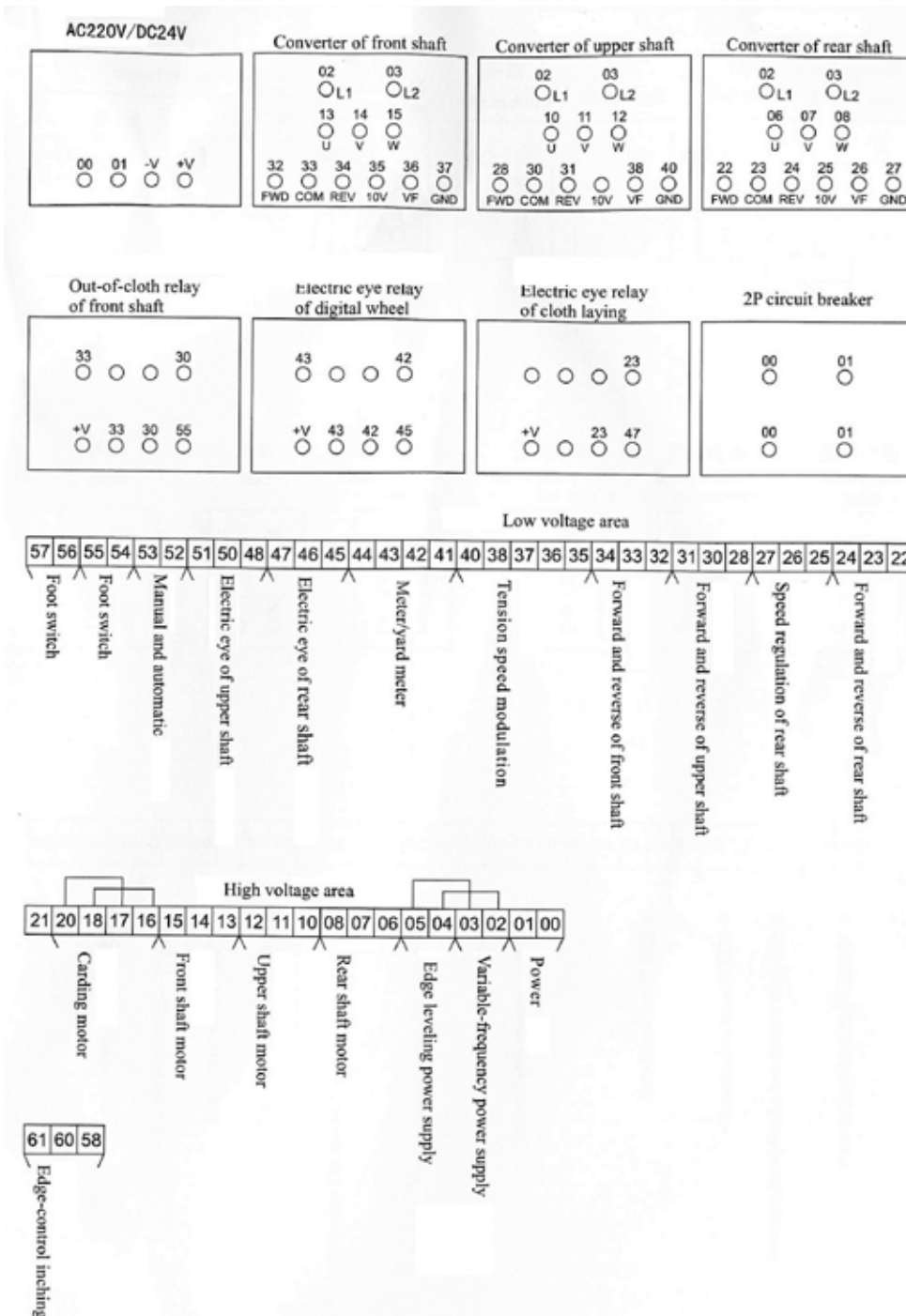
Arrangement of the control circuit terminal and the wiring diagram

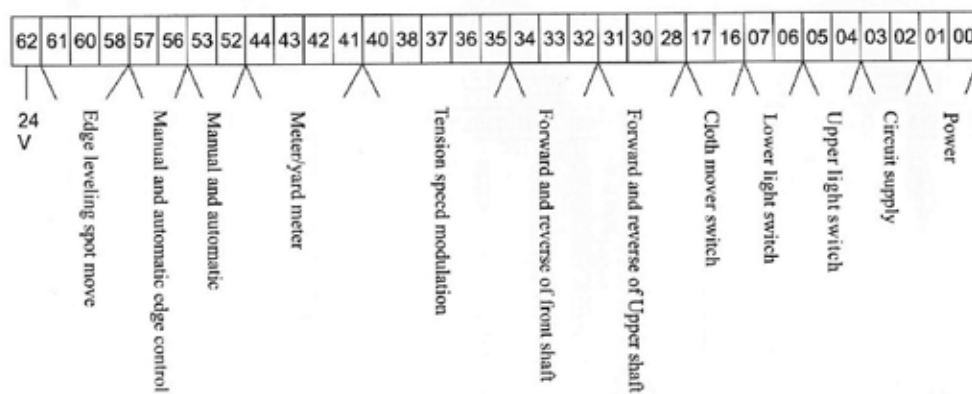
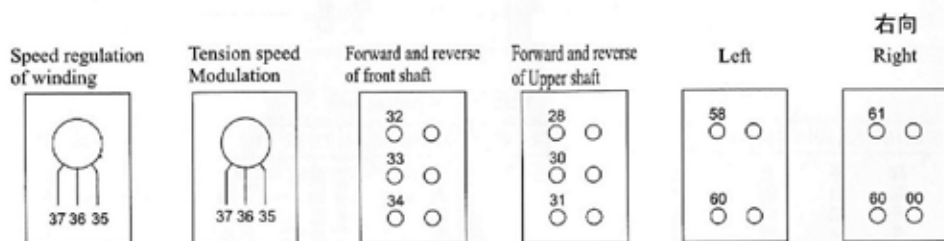
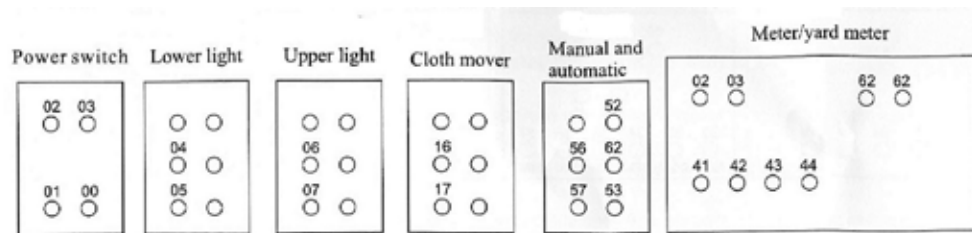


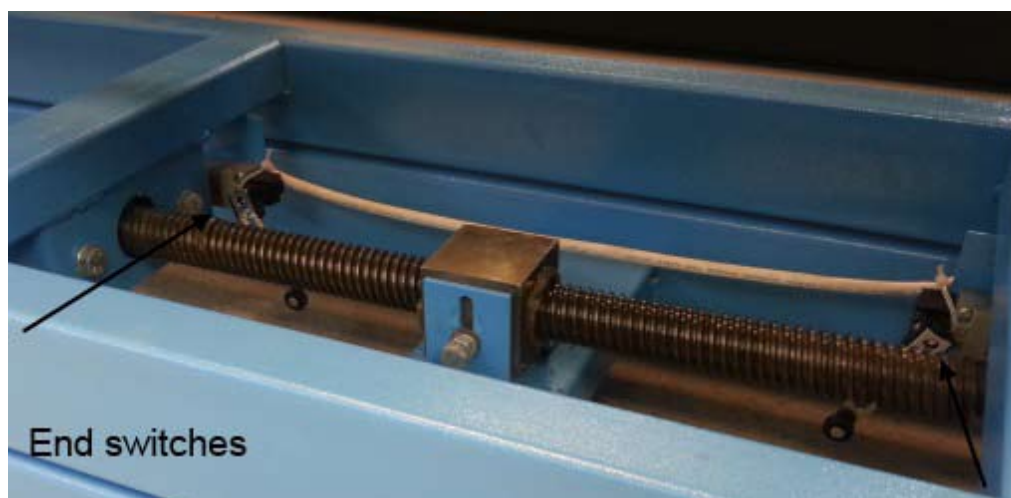
Below is the wiring diagram of the main circuit and the control loop. When the numeric keyboard is used, the motor can be operated if the main circuit is connected.

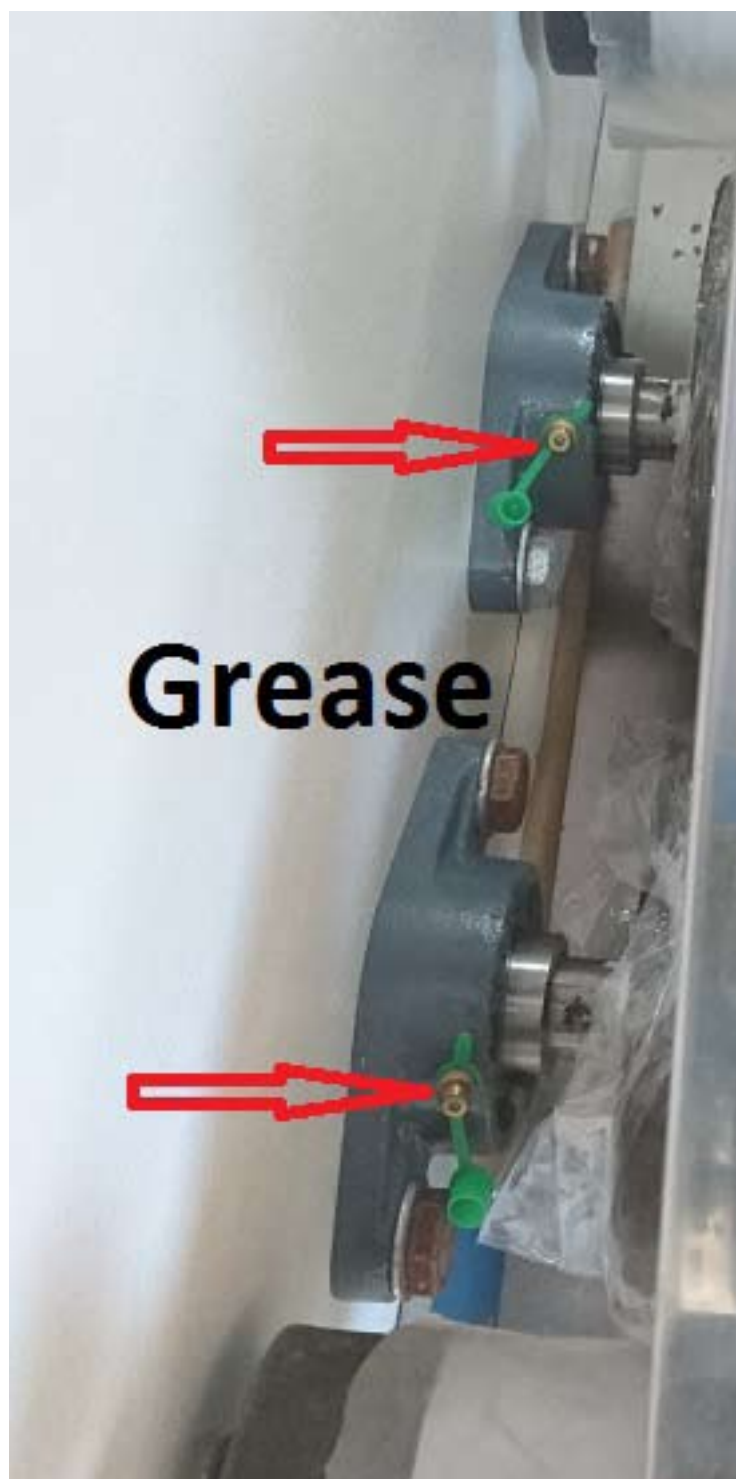


## Electric connection diagram











## Electric components



### Notes