

## **KOMMAN AUTOMATIC CARPET WASH**

### **MACHINES**

**MODELS OF 2500/3500/4300**

### **USER'S MANUAL**

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## 1. PRODUCT DESCRIPTION AND TECHNICAL SPECIFICATIONS

<b><u>ALTAY ROLLER M-2500</u></b>	<b><u>ALTAY ROLLER L-3500</u></b>	<b><u>ALTAY ROLLER XL-4300</u></b>
<b>Supply voltage:</b> 380 V	<b>Supply voltage:</b> 380 V	<b>Supply voltage:</b> 380 V
<b>Frequency:</b> 50 Hz	<b>Frequency:</b> 50 Hz	<b>Frequency:</b> 50 Hz
<b>Maximum Power:</b> 14 KW	<b>Maximum Power:</b> 14KW	<b>Maximum Power:</b> 14 KW
<b>Dimensions:</b> 3100 mm x 2300 mm x 1820 mm	<b>Dimensions:</b> 4280 mm x 2300 mm x 1820 mm	<b>Dimensions:</b> 5180 mm x 2300 mm x 1820 mm
<b>Weight:</b> 1850 kg	<b>Weight:</b> 2150 kg	<b>Weight:</b> 2700 kg

## 2. TRANSPORTATION AND SETTLEMENT

### 2.1) TRANSPORTATION

The machine should be brought to the area where it will be operated by forklift or crane.

The carpet transport cart and the soaking pool should be transported externally from the machine.

All safety precautions should be observed during the transportation.

The machine should be transported in working position.

Damage incurred during transportation is not scoped by the warranty.

### 2.2) SETTLEMENT

The machine should be placed on a flat surface.

The machine should be placed in a place where the operator can operate comfortably.

All occupational health and worker safety precautions should be taken.

### **3. ELECTRICITY**

The residual current device, RCD (30mA protection) should be connected to the input of the panel where the machine will receive energy.

RCD should be checked periodically by authorized personnel.

After connecting an additional PE line to the machine chassis, the necessary earth continuity test should be applied.

The user is responsible for the damage, risks and hazards that may occur as a result of not carrying out this test.

The energy coming to the machine should be at the proper phase and voltage.

If your machine is away from the control panel, the mobile cable used for connection purposes should be in accurate cross-sectional area, new and certified.

Before energizing the machine, breakers, cables etc. should be checked.

If any component is damaged, it should be repaired.

The electrical installation to which the machine is to be connected should comply with the standards and must be checked by a specialist.

When the machine is first started or during operation, if electric motors are overheated or the motors do not get into full speed or the motors are reversed, then the main disconnecting device should be turned OFF, and the controls need to be done again.

Faults caused by connection faults and fluctuations in the electricity supply are not scoped by the warranty.

### **4- OPERATING THE MACHINE AND WASHING**

#### **4.1.) OPERATING THE MACHINE**

Two people are needed to operate the machine. First one should give the carpet to the machine from front side and control the functions. The second

one should make the first roll to washed carpet behind the machine, the second person also puts the carpet to transport trolley. (See Figure 1).

After your machine meets the above requirements, the carpet to be washed is brought closer to the machine by using the carpet transport trolley.

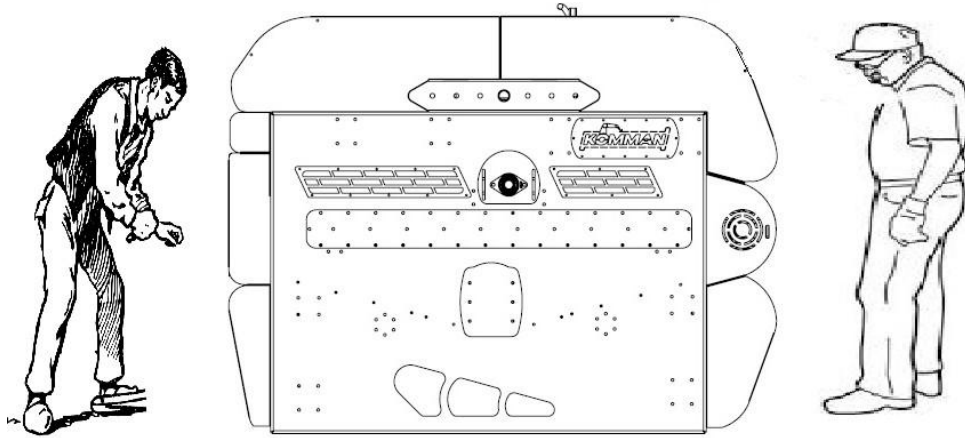
By using the buttons on the machine display panel, the disc brush trolley, the middle roller brush and the roller smoothing system are activated.

The position and rotation speed of the brushes in the disc brush trolley are set. Then, according to the condition of the carpet, the roller rake speed and the belt rotation speed can be adjusted.

The water inlet quantities are adjusted according to the pollution conditions of the carpets by the valves in the machine water inlet. Detergent valves on the disc brushes are optimally adjusted according to the pollution condition of the carpets and the amount of detergent.

The machine is ready for washing with the whole system starting to work at the desired speed and direction.

### MACHINE UTILIZATION



*Figure 1: Carpet Cleaning Process*

Machine should be used with two people when carpet washing process is done. The person at the front of the machine starts the machine. The operator ensures that the brushes and the band are operated in the desired direction



and speed, then give the carpet to the machine and initiate the washing process. The person behind the machine waits for the incoming carpet to come to the collector rollers. With the arrival of the carpet, it makes the first roll and then waits for the carpet to be collected in the collector rollers. The user takes the collected carpet to the transport cart and takes it to the squeezing machine.

#### **4.2.) WASHING**

If the carpet, which is approached to the machine by using a carpet trolley, is very dirty, the stains on the carpet are softened by using the carpet wetting pool. After the carpet is placed in the working machine, the machine washing process is waited to end.

After the washing process is finished, the carpet rolled by the rollers is taken from the machine. The carpet conveyed from the machine is transported to the squeezing/spinning machine by the trolley.

#### **4.3.) SECURITY PRECAUTIONS**

The operator is responsible for all safety precautions to be taken during the operation of the machine.

The operator must ensure that there is no electrical leakage in the environment where the machine is operating.

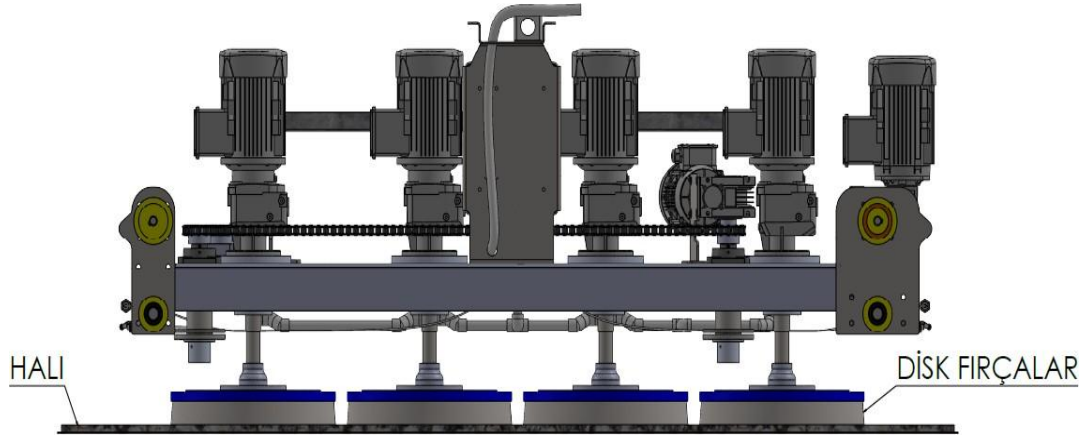
### **5. WARNINGS and PRECAUTIONS**

Before using your machine, check whether the machine has been damaged or not. Please read the user manual carefully before using the machine. Use and maintenance of the machine should be performed by authorized persons. The machine must be used after all the necessary conditions are provided. It is recommended not to exceed the working capacity of the machine.

If the machine is used very intensively, after four hours of operation, the machine should be rested for half an hour. When carpet washing is performed, hand washing must not be performed manually when machine is running in any part of machine due to base difference. Manual intervention may cause serious injury. In such cases, the machine should be stopped completely and

the band should be used to adjust the direction of rotation of the tape on the display box. Thus, the carpet is removed from the place where it is stuck.

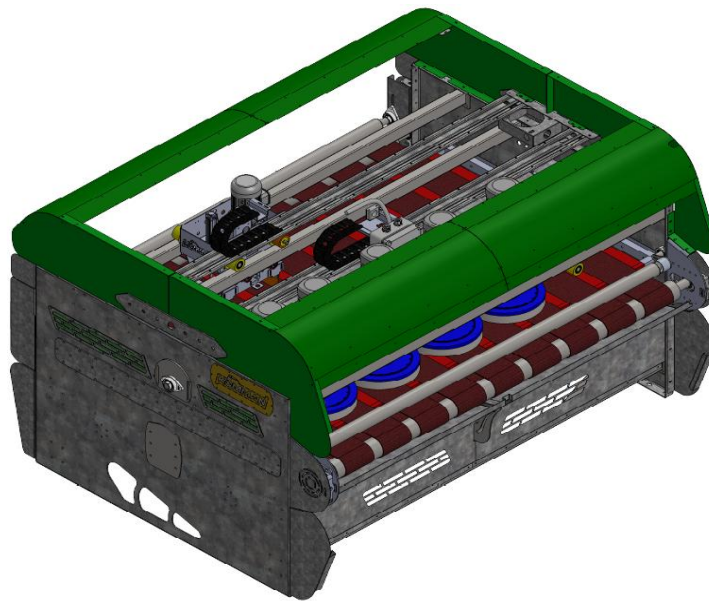
Even though the disc brush system is set to the maximum pressure point with limit condition, these brushes should not be pressed on thick carpets. Doing so may damage the substrate of the machine (See Figure 2).



*Figure 1 Stance of Upright Brushes on Carpet*

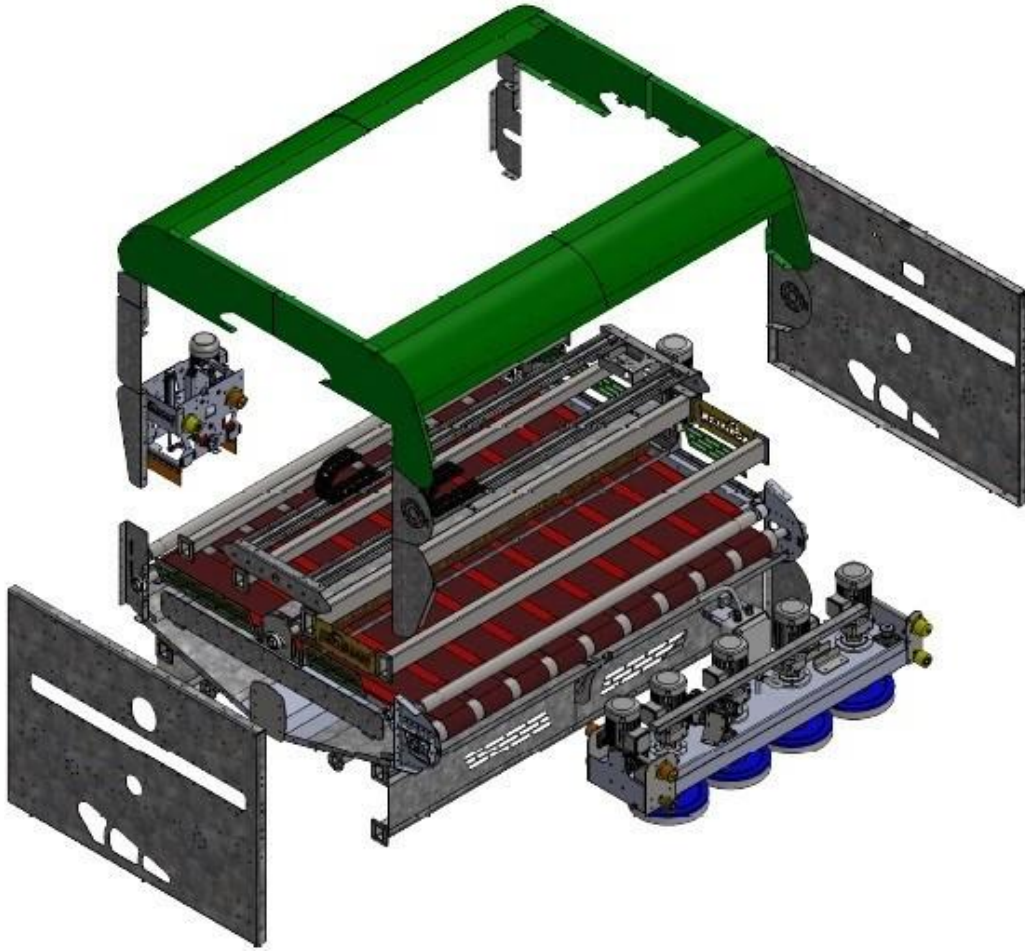
Disc brushes on the carpet should be as shown in the figure. The brushes must be in an upright position when the carpet and disc brushes come into contact. Since the pressing of the brushes will damage the bottom of the machine, attention should be considered to the shape of the brushes.

### **ALTAY SERIES GENERAL VIEW**

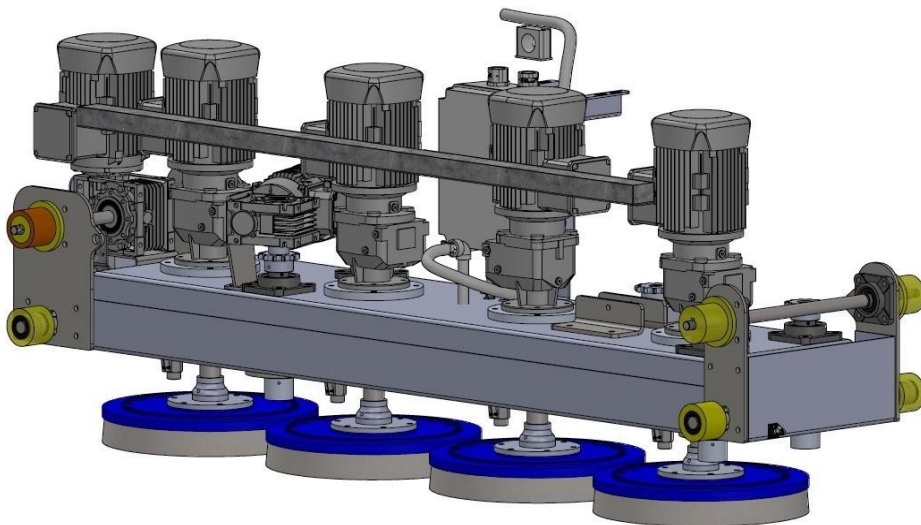




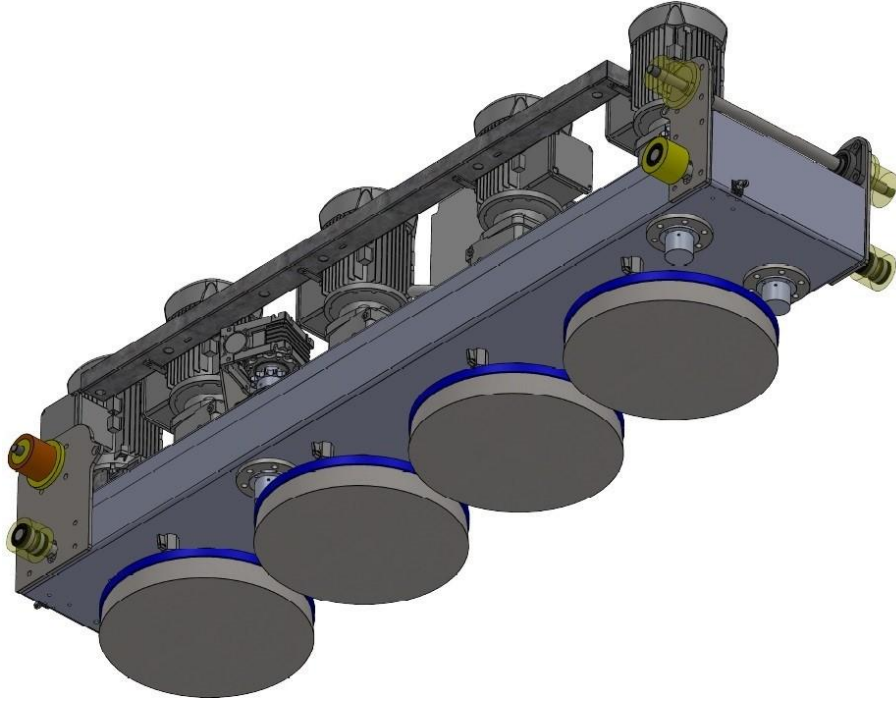
**ALTAY SERIES DETAIL VIEW**



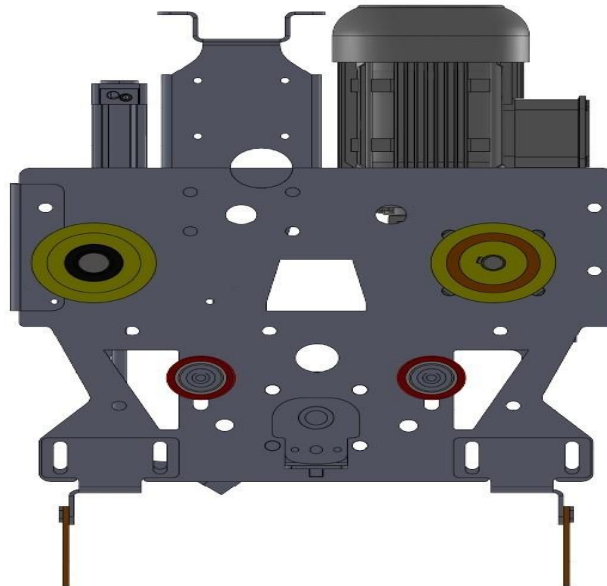
**ALTAY SERIES DISC BRUSH DETAIL VIEW**

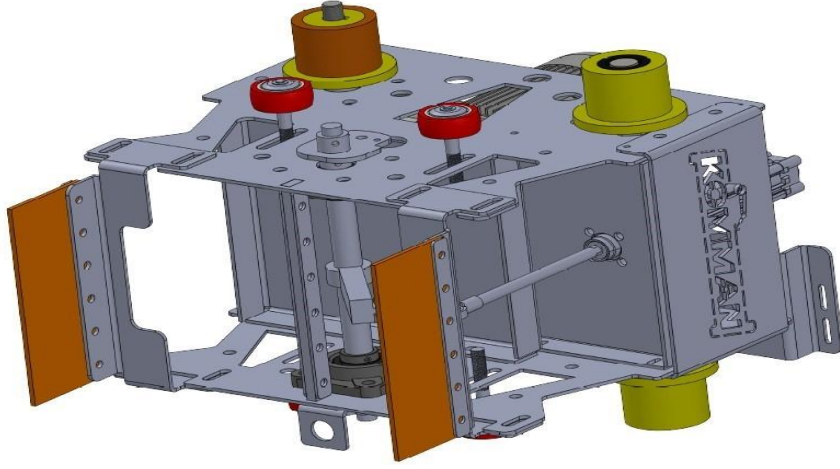






**ALTAY SERIES SCRAPER DETAIL VIEW**





## SCREEN BOX BUTTONS AND DUTIES



### Emergency Button

Use to stop the machine in case of emergency. There are two pieces on the machine. One of them is on the display box and the other on the right rear of the machine.



### Direction Button

Two pieces on the display box. One of them is used to adjust the direction of rotation of the tape and the other to adjust the position of the disc brushes.



### **Speed Adjustment Button**

There are 3 units on the machine display panel.

One of them is the band rotation speed adjustment, the second is the disk brush rotation speed adjustment, and the third one is used for speed adjustment.



### **Stop Button**

It is the button used to stop the machine.



### **Start Button**

It is the button used to operate the machine.

It is recommended that the roller rake not run too fast and this machine should not be used for cleaning of different products other than carpets.

In the event of an emergency, the machine must be stopped using the display box and emergency buttons on the back of the machine.

## **6. OPERATOR**

In the case of machine use, the person or persons who will use the machine should be informed about how to use them.

## **7. MAINTENANCE**

The machine should be disconnected from the mains before starting maintenance. The machine should be serviced by authorized person or persons. After every 10,000 m<sup>2</sup> carpet cleaning process is finished, the carpet



hairs accumulated on the machine should be cleaned. Disc brushes on the large car should be replaced after maximum 3000 hours of operation. Care should be taken to ensure that the bearings are lubricated correctly and timely. After every 10,000 hours of operation, the bearings must be lubricated.

## **8. TECHNICAL SERVICE**

The decisive factor in service is the contract with the buyer. Service is provided by the “Komman Makina” itself or by authorized services designated by the “Komman Makina”.

Maintenance of all machines not scoped by the warranty or expired warranty is made for a fee. If the machine is not scoped by the warranty service, fee will be charged.

## **9. WASHING CAPACITY**

Washing capacity of ALTAY series carpet washing machines is approximately 120 m<sup>2</sup> per hour.

## WARNING SIGNS

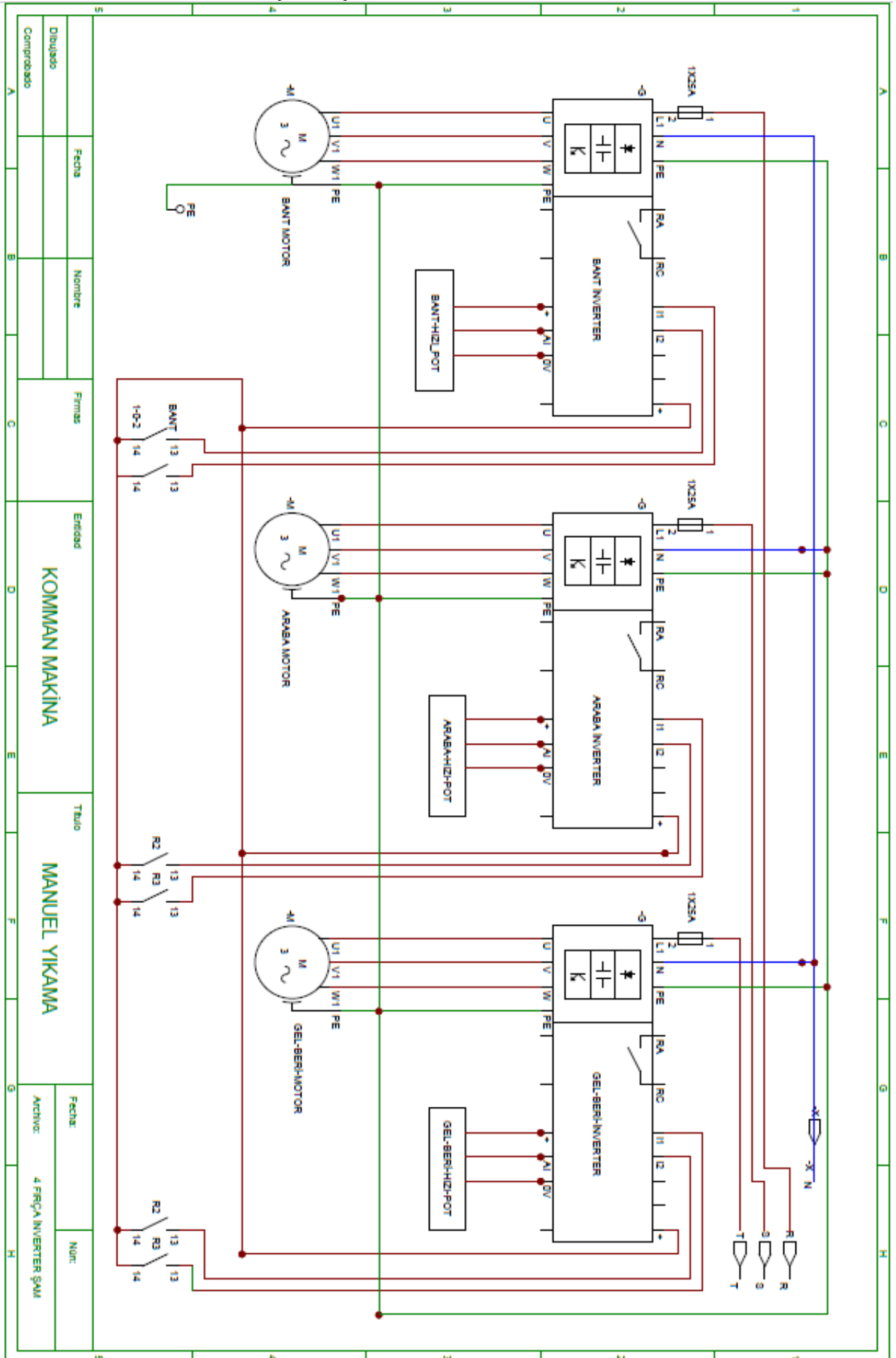


Do not interfere with the wiring of the motors without making sure that the panel is completely deenergized.



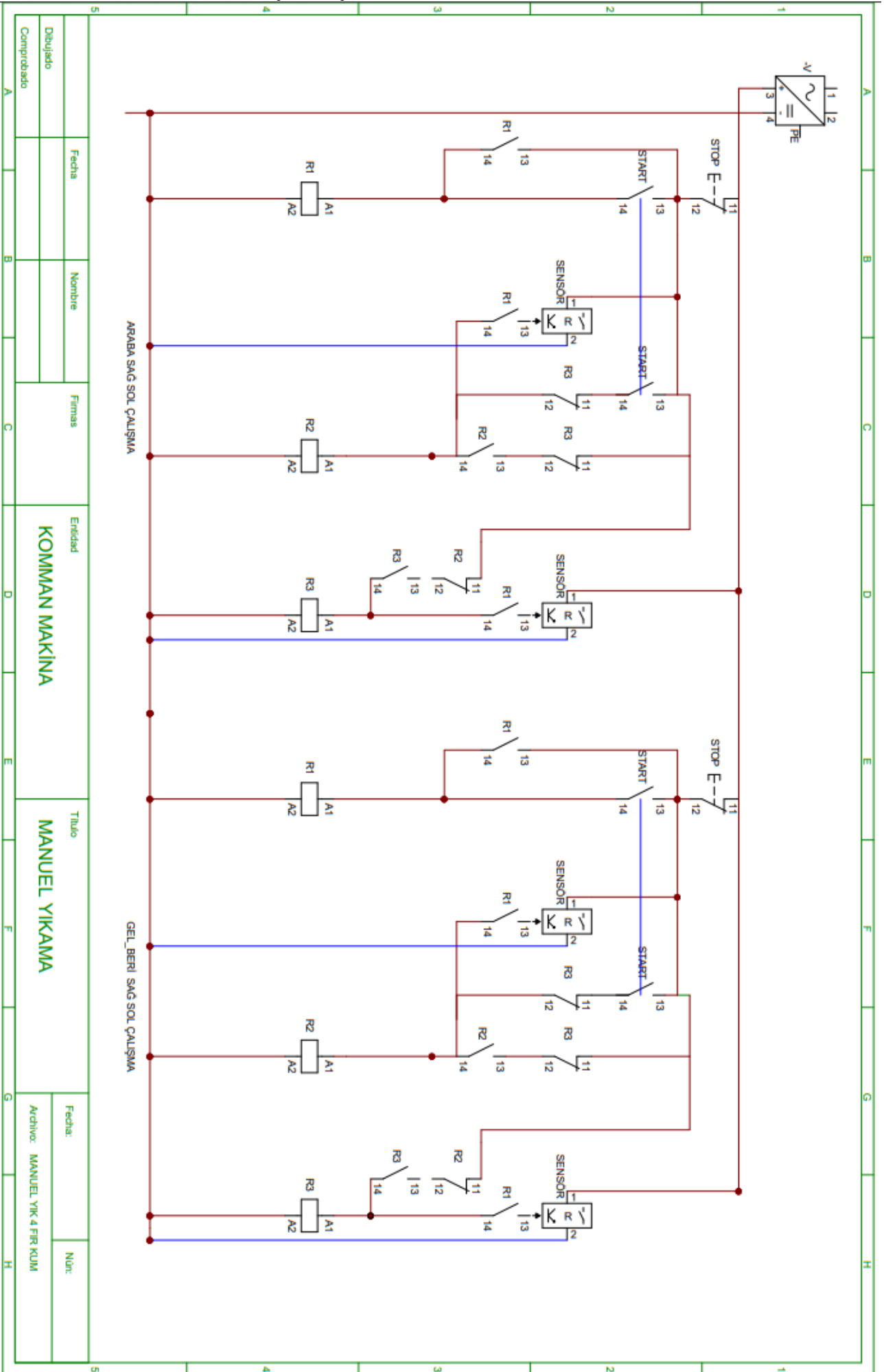
Manual operation on any part of the machine while the machine is running can cause your hand to be pinched under the pressure roll, the bottom of the disc brushes, the large car and the roller rake cart wheels. For this reason, the machine should not be operated manually in any part of the machine while it is running.

# ELECTRONIC CIRCUIT DIAGRAMS



Dünyada Comprolado	Fecha	Nombre	Firma	Estado	Título	Fecha:	Núm:
				<b>KOMMAN MAKİNA</b>	<b>MANUEL YIKAMA</b>	ARCHIV:	4 FİRÇA İNVERTER 5MM





Disajlado		Fecha		Nombre		Firmas		Entidad		Titulo		Fecha:		Nume:	
Comprobado								<b>KOMMAN MAKİNA</b>		<b>MANUEL YIKAMA</b>		Ardivox: MANUEL_YIK_4 FIR KUM			



