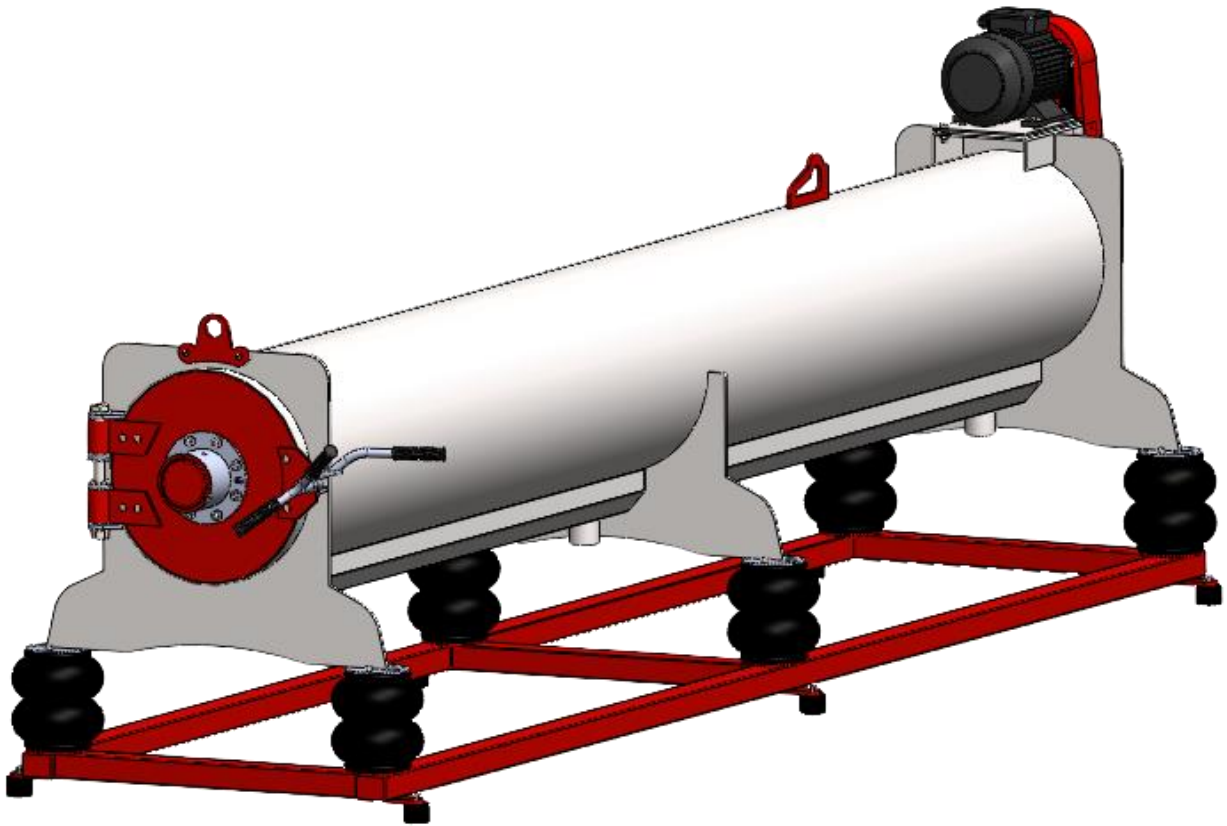




BORA SERIES CARPET SPINNING MACHINES



2700/3300/4200/5200

PNEUMATIC AND MANUEL MODELS



CONTENT

1- PRODUCT INTRODUCTION AND TECHNICAL SPECIFICATIONS

2- TRANSPORTATION AND INSTALLATION

3- ELECTRICITY

4- COMMISSIONING THE MACHINE, WARNINGS AND PRECAUTIONS

6- OPERATOR

7- MAINTENANCE

8- COVER ADJUSTMENTS

9- SERVICE

10- WRINGING CAPACITY



BORA 2700 (Ø38)

Voltage: 380 V

Frequency: 50 Hz

Maximum Power: 4 kW

Sizes: 1100 × 3200 × 1400 mm

BORA 4200 (Ø42)

Voltage: 380 V

Frequency: 50 Hz

Maximum Power: 5.5 kW

Sizes: 1100 × 4800 × 1400 mm

BORA 3300 (Ø38)

Voltage: 380 V

Frequency: 50 Hz

Maximum Power: 4 kW

Sizes: 1100 × 3800 × 1400 mm

BORA 4200 (Ø38)

Voltage: 380 V

Frequency: 50 Hz

Maximum Power: 5.5 kW

Sizes: 1100 × 4800 × 1400 mm



2- TRANSPORT AND INSTALLATION

2.1 TRANSPORTATION

The machine must be transported to the operating area using a forklift or crane. The carpet transport trolley and wetting basin must also be transported separately.

All safety precautions must be taken during the transport process. The machine must be transported in its working position. Damage occurring during transport is not covered by the warranty.

2.2- INSTALLATION

The machine must be placed on a level surface. The operating environment must be comfortable for the operator. All occupational health and safety measures must be taken.



3 - ELECTRICITY

- Additional grounding measures must be taken for the machine chassis, and the necessary grounding measurement must be performed.
- All malfunctions, damages, and risks that may arise due to the failure to perform this measurement are the responsibility of the user and are not covered by the warranty.
- The power supply to the machine must be of the appropriate phase and voltage and must be installed in accordance with standards.
- If your machine is far from the control panel, the portable cable used for connection must be of the appropriate cross-section, new, and in good condition.
- Before applying electrical current to the machine, the switch, cable, and connections must be checked.
- If there is any damage, the machine should not be operated until it is repaired.
- During the first start-up and operation;
 - in cases such as the motor overheating,
 - not reaching full speed,
 - rotation in the opposite direction,
 - the switch should be turned off and the necessary checks should be performed by a specialist.
- Malfunctions caused by connection errors and electrical fluctuations are not covered by the warranty.
 - The electrical installation to the machine must comply with current safety and electrical standards.

ILLUSTRATED INSTRUCTIONS FOR PLACING THE MACHINE ON THE GROUND.

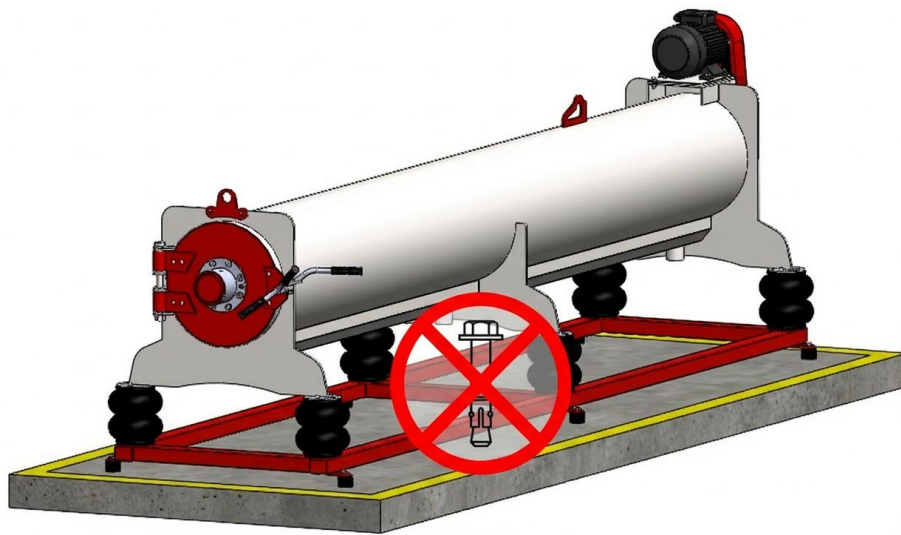


Figure.1.a Incorrect placement on the machine.



**Figure 1.b. Placing the machine on the ground
(The machine should not be fixed to the ground).**

4.1 4 - MACHINE COMMISSIONING, WARNINGS, PRECAUTIONS AND WRINGING

MACHINE COMMISSIONING, WARNINGS, PRECAUTIONS

- The machine should only be used after all necessary conditions in the environment have been met.
 - The user manual should be read carefully before using the machine.
 - It is recommended not to exceed the machine's operating capacity.
 - The machine should be used and maintained by authorized personnel.
 - In case of very intensive use of the machine, it should be rested for half an hour after every four hours of operation.
 - Otherwise, all damages that may occur are entirely the responsibility of the user.
 - Carpet wringing machines should be operated with balanced loading.
 - The carpet should be placed in the machine in the correct direction, centered from the front and back (See: Figure 2a, Figure 2b, Figure 2c, Figure 2d).
 - The carpet should be brought closer to the machine using a carpet transport trolley and placed so that it is perfectly centered inside the machine.
 - Placing the carpet in the wrong direction or unevenly inside the machine will cause the machine to operate with abnormal noises, to jump, and the carpet to not stay in place.
 - If such a situation occurs, the machine should be stopped and not forced to operate.
 - Ensure that the machine lid is completely closed.
 - The machine lid must absolutely not be opened before the motor has completely stopped.
 - The carpet spinning time is adjusted using the time relay located on the control panel.
 - After completing all the above steps, the machine is ready for spinning.
 - More than one carpet should not be spun in the machine at the same time.
 - All malfunctions and damages resulting from this type of use are outside the scope of the warranty.
-



4.2 - WRINGING

To start the spinning process of the machine, which is ready to be operated, the motor is started by pressing the green button on the control panel. The completion of the time set by the time relay is awaited.

4.3 - SAFETY PRECAUTIONS

The operator is responsible for all necessary safety precautions in the environment where the machine will operate.

The operator must ensure that there are no electrical leaks or similar risks in the environment where the machine is operating.

SCHEMATIC REPRESENTATION OF CARPET PLACEMENT IN THE CARPET SPINNING MACHINE.

The schematic view of the correct placement of the carpet inside the machine when the machine is operated in the counter-clockwise direction is shown in Figure 2a, and the schematic view of the incorrect placement is shown in Figure 2b. The centering of the carpet inside the machine is shown in Figure 2c. All malfunctions and damages resulting from non-compliance with the machine usage methods shown in the figures are outside the scope of the warranty.



Machine Rotation Direction

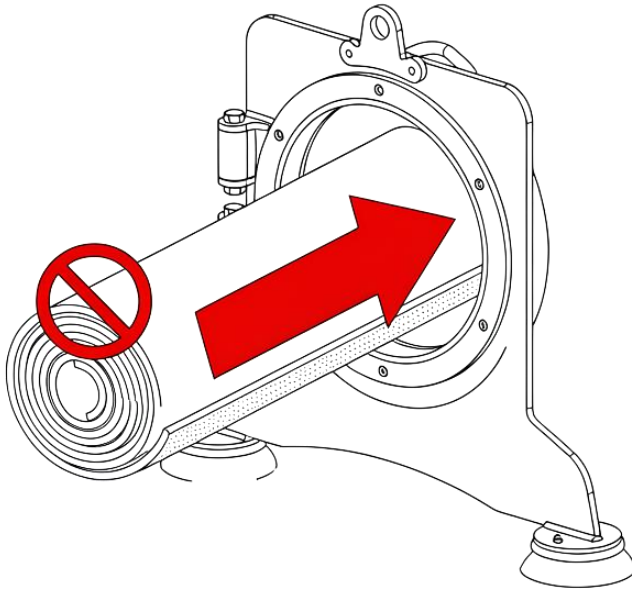


Figure.2b Incorrect Placement

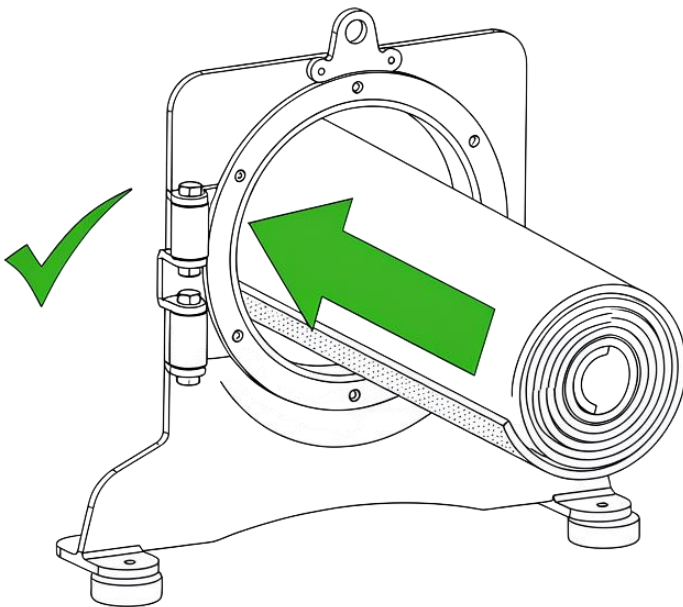


Figure.2a Correct Placement

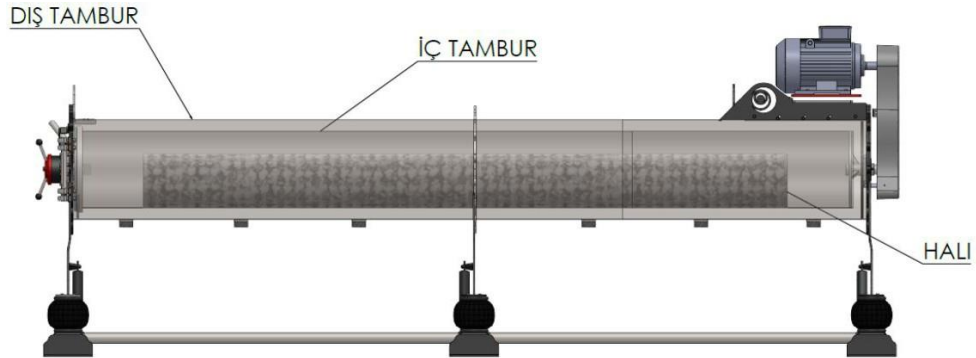


Figure.2c Centering the carpet on the machine.

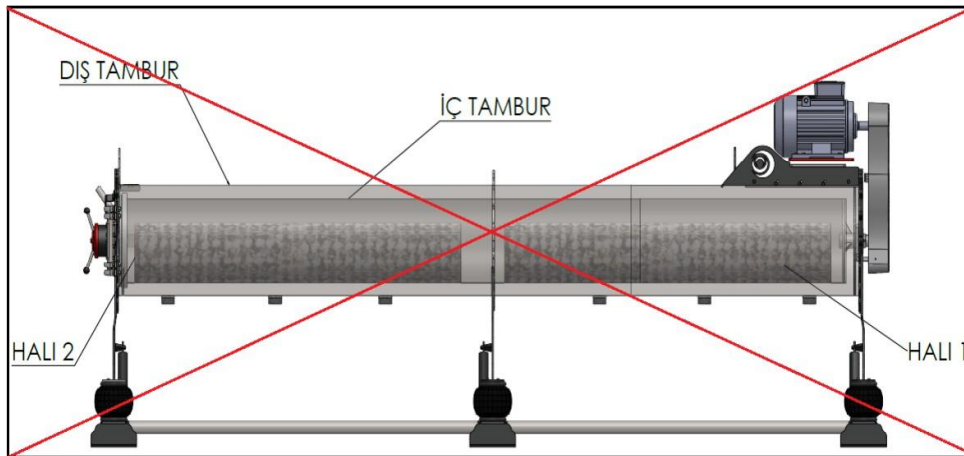


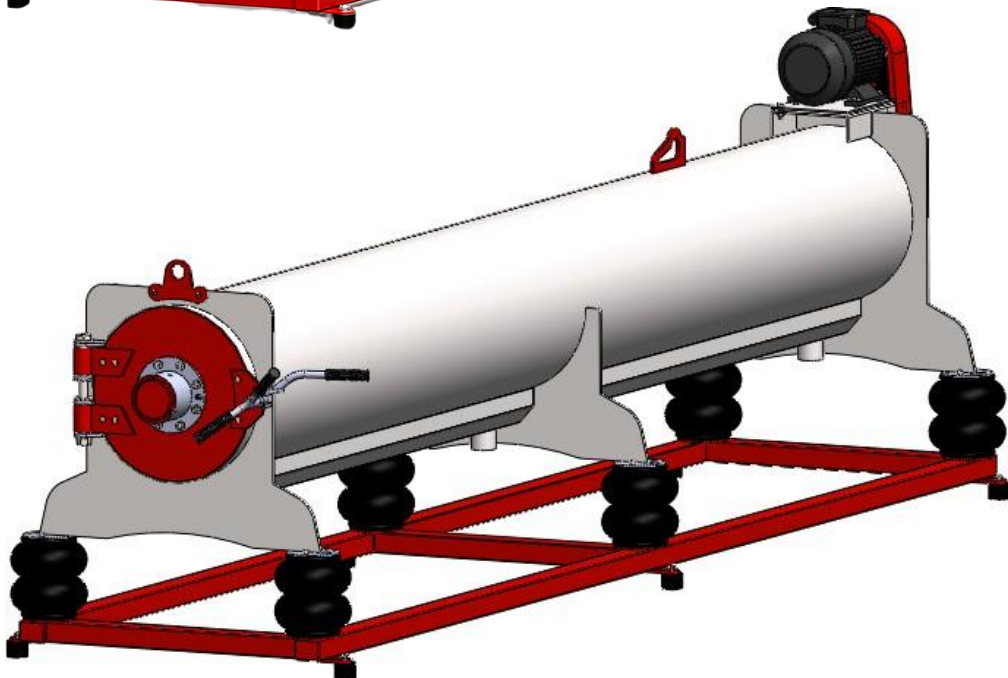
Figure.2d Multiple Carpet Placement Inside the Machine

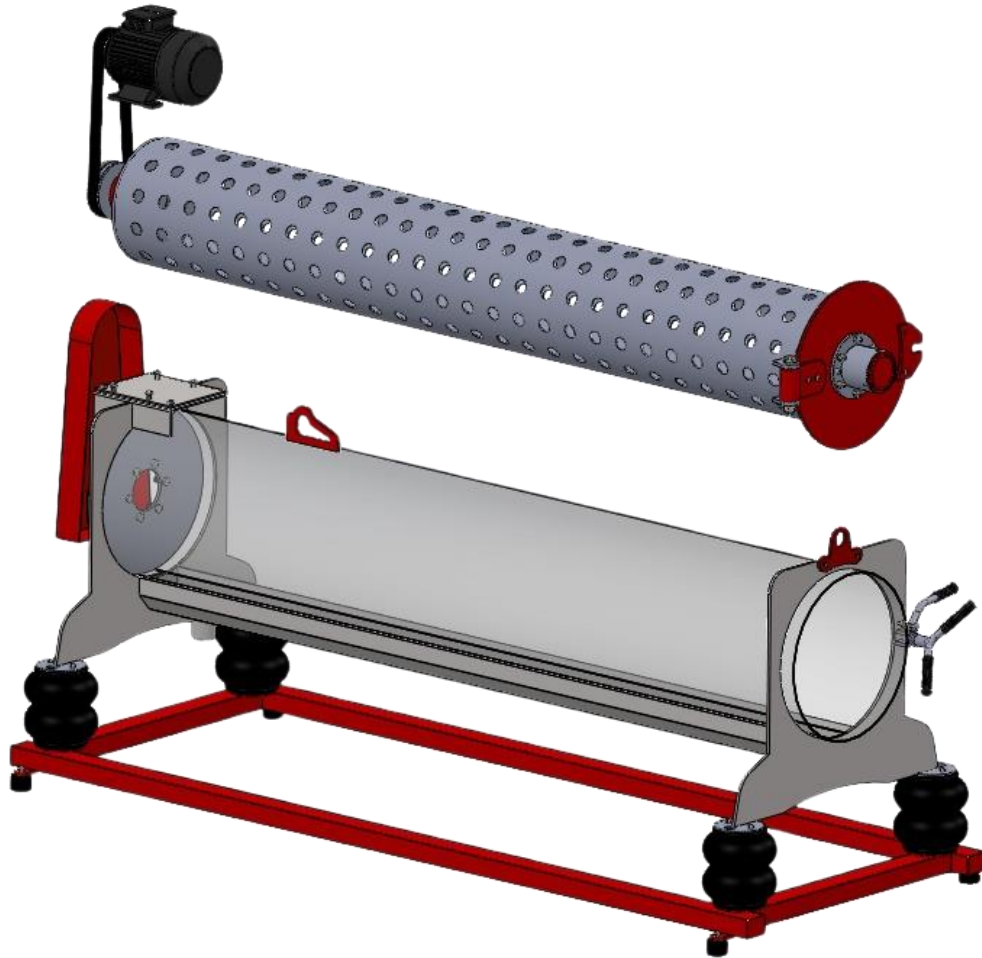
The machine should not perform the same squeezing operation on more than one type of material at the same time.

Damage resulting from this situation is not covered under warranty.



BORA SERIES OVERVIEW





SCREEN BOX BUTTONS AND THEIR FUNCTIONS



STOP BUTTON
IS FOR TURNING OFF THE
MACHINE



START BUTTON
IS FOR TURNING ON THE
MACHINES



TIMER RELAY

THIS BUTTON IS USED TO ADJUST THE SPINNING TIME OF THE MACHINE.



WARNING LIGHT

IS A LIGHT THAT INDICATES WHETHER THE MACHINE IS IN WORKING CONDITION OR NOT



6 - OPERATOR

- REGARDING MACHINE OPERATION, THE PERSON OR PERSONS WHO WILL BE USING THE MACHINE SHOULD BE GIVEN THE NECESSARY INFORMATION ON HOW TO USE IT.

7- MAINTENANCE

- ALL ELECTRICAL CONNECTIONS TO THE MACHINE MUST BE DISCONNECTED BEFORE STARTING MAINTENANCE.
- MAINTENANCE OF THE MACHINE MUST BE PERFORMED BY AUTHORIZED PERSON(S).
- CARE MUST BE TAKEN TO ENSURE THAT THE BEARINGS ARE LUBRICATED CORRECTLY AND ON TIME.
- AFTER EVERY MINIMUM OF 240 HOURS OF USE, THE BEARINGS MUST BE LUBRICATED WITH WATERPROOF RUBBER GREASE.

(SEE: FIGURE 4 VE FIGURE 5).

8- COVER SETTINGS

- Due to the unstable operation of the machine, the cover adjustments may change over time.
- The operator can adjust the cover himself/herself using the bolts shown in Figures 3A and 3B.
- If the cover has fallen down;
- Loose the three bolts on the flange connecting the cover to the hinge,
- Lift the cover up and then tighten the bolts again.
- If the cover has shifted to the right or left;
- Loose the bolts on the bearings,
- Adjust the cover by sliding it to the right or left. ONCE THE COVER IS IN THE DESIRED POSITION, THE BOLTS ARE TIGHTENED.
- (SEE: FIGURE 3A AND FIGURE 3B).

THE KESTAMIDE AND O-RINGS IN THE COVER SHOULD BE CHECKED, AND REPLACED IF THEY ARE WORN.



9- SERVICE

- THE DETERMINING FACTOR IN SERVICE IS THE CONTRACT MADE WITH THE BUYER. SERVICE IS PROVIDED BY KOMMAN MAKINA OR BY SERVICE CENTERS AUTHORIZED BY KOMMAN MAKINA.
- MAINTENANCE AND SERVICE OPERATIONS FOR ALL MACHINES THAT ARE NOT UNDER WARRANTY OR WHOSE WARRANTY PERIOD HAS EXPIRED ARE PERFORMED FOR A FEE. IF THE MACHINE IS NOT UNDER WARRANTY, SERVICE TRANSPORTATION FEE WILL BE CHARGED SEPARATELY.

7 - SPINNING CAPACITY

BORA SERIES CARPET SPINNING MACHINES HAVE AN AVERAGE CARPET SPINNING CAPACITY OF 120 M² PER HOUR.



WARNING SIGNS



DO NOT INTERFERE WITH THE MOTOR CABLE CONNECTION AREAS UNTIL THE CONTROL PANEL IS COMPLETELY CLOSED.





WARNING SIGNS



THE MACHINE COVER MUST NOT BE OPENED BEFORE THE MACHINE IS COMPLETELY STOPPED. ATTEMPTING TO OPEN THE COVER MAY CAUSE SERIOUS INJURY.

WARNING SIGNS



**Dönen
Parçalar**



**Elin
Sıkışma
Tehlikesi**



**Makineye
Sarılma
Riski**



**Kesilme
Tehlikesi**



**Bol
Kıyafet
Giyme**



**Eldiven
Takma**



**Saç
Açık Bırakma**



**Daran
Kıyafet Giy**



**Dar
Kıyafet Giy**



**Saç Koruması
Kullan**



**Yalnızca Uygun
Eldiven**

WARNING SIGNS



Rotating parts



Crushing of hand



Do not wear loose clothing



Long hair must be protected



Entanglement



No gloves



Wear tight fitting clothing



Wear hair protection



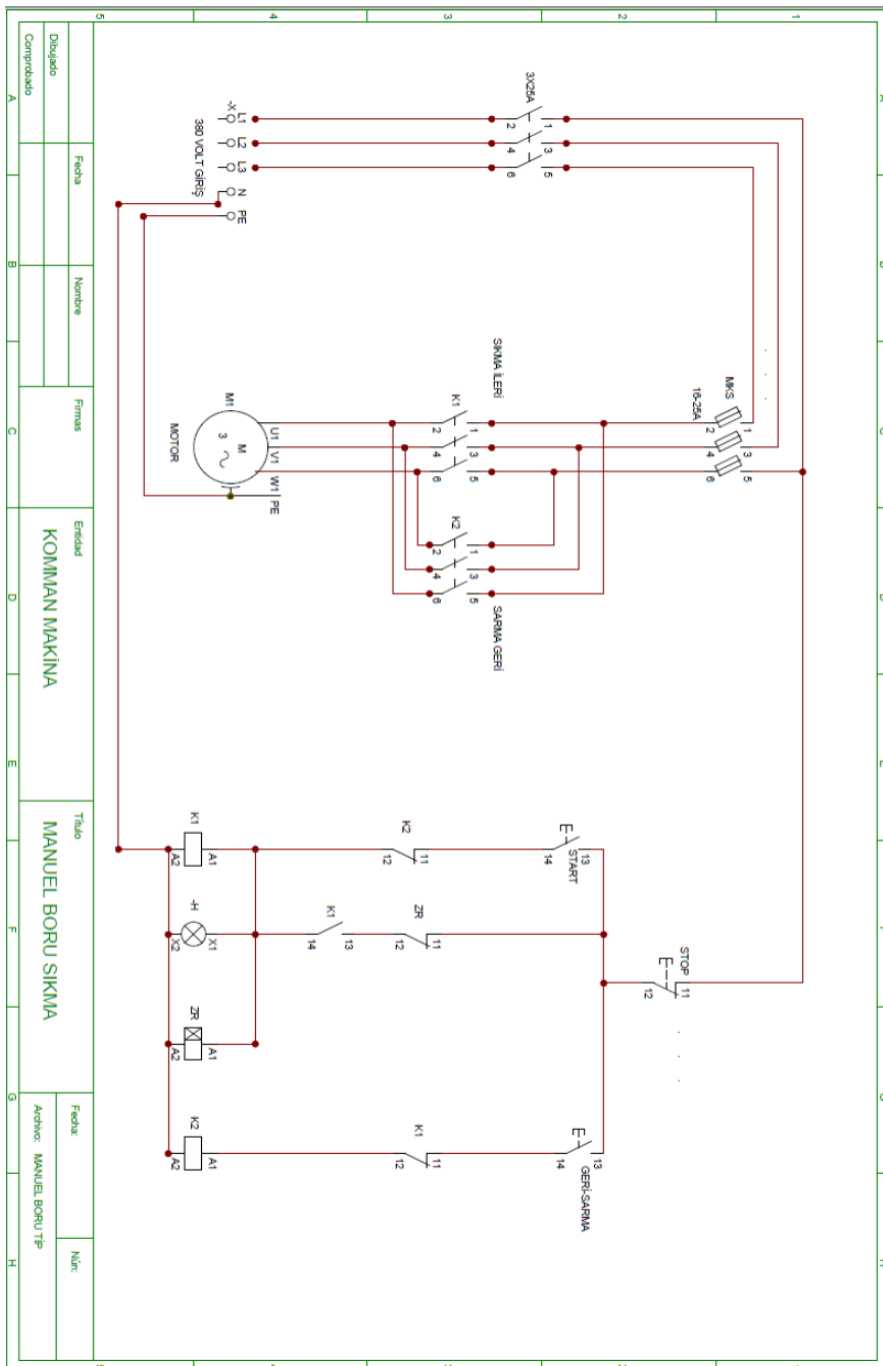
Do not reach-finting clothing

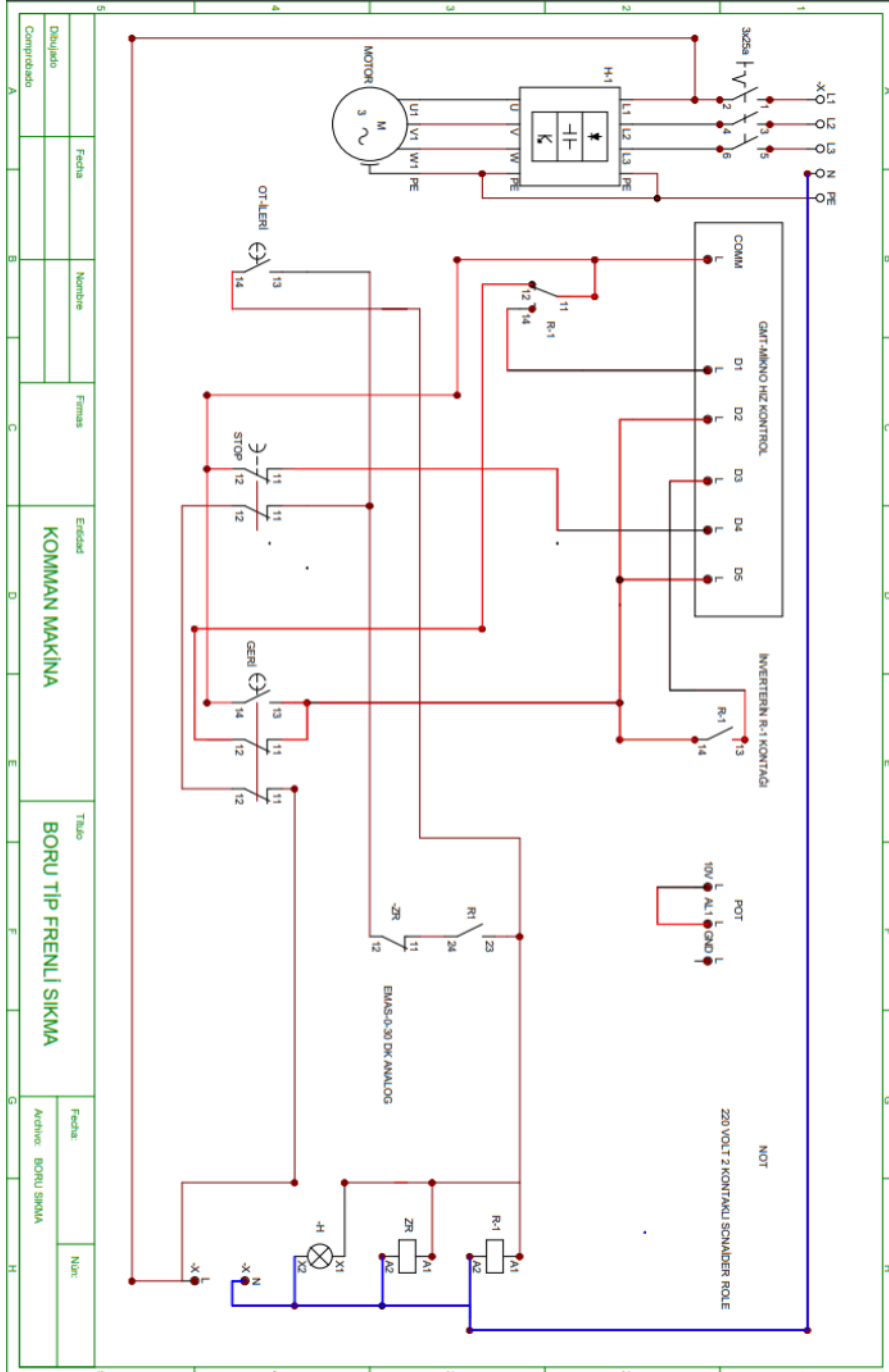


Do not reach into moving machinery



ELECTRONIC CIRCUIT DIAGRAMS





Dibujado		Fecha		Nombre		Firma		Estado		Titulo		Fecha		N.º	
Completado								KOMMAN MAKINA		BORU TIP FRENLI SIKMA		Archivo: BORU SIKMA			