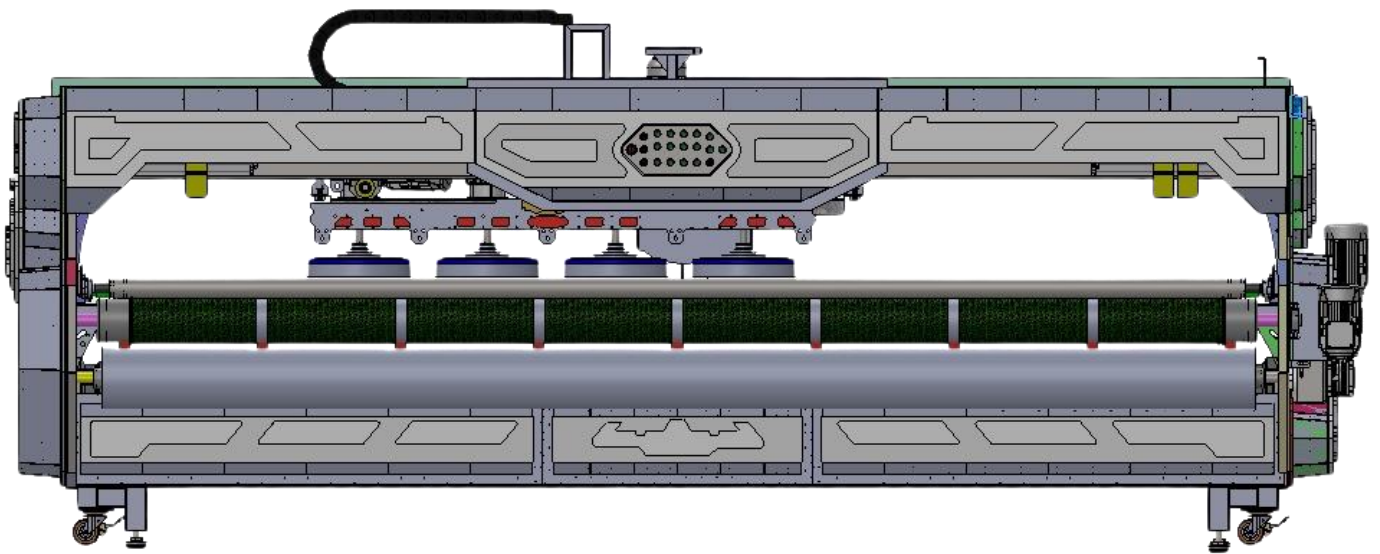




KOMMAN  
AUTOMATIC CARPET WASHING  
MACHINES



TIGER SERIES  
2700/3500/4200  
USER GUIDE



1- PRODUCT INTRODUCTION AND TECHNICAL SPECIFICATIONS

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## PRODUCT INTRODUCTION AND TECHNICAL SPECIFICATIONS

### TIGER M 2700

VOLTAGE: 380 V

FREQUENCY: 50 Hz

MAXIMUM POWER: 18

KW

DIMENSIONS: 3280 x

2300 x 1900 mm

WEIGHT: 1500 kg

### TIGER L 3500

VOLTAGE: 380 V

FREQUENCY: 50 Hz

MAXIMUM POWER: 18

KW

DIMENSIONS: 4280 x

2300 x 1900 mm

WEIGHT: 1750 kg

### TIGER XL 4200 VOLTAGE:

380 V FREQUENCY : 50 Hz

MAXIMUM POWER:18 KW

DIMENSION :5080 x 2400 x 1900 mm

WEIGH :2000 kg

## 1- 1- TRANSPORT AND INSTALLATION

### 1.1 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 - ELCTRICITY

The power supply to the machine must be of the appropriate phase and voltage. If your machine is far from the control panel, the portable cable used for connection must be of the appropriate cross-section and new.

Before supplying power to the machine, the switch, cable, etc., should be checked. Any damage should be repaired. It is recommended that a residual current device (RCD) be installed in the control panel from which the machine will receive power.

An additional grounding line should be connected to the machine chassis and the necessary ground measurement should be performed.

This measurement should be performed by a specialist.

During initial operation and while running, if the electric motor overheats, speed drops, leakage current, reverse direction of rotation, etc., the switch should be turned off and checks should be performed.

Faults caused by connection errors and electrical fluctuations are not covered by the warranty, and all responsibility lies with the user.

### 4 - MACHINE COMMISSIONING AND WASHING

#### 4.1 - MACHINE COMMISSIONING



One person must be present in front of the machine (the area where the control panel is located and the carpet is fed) to control the functions of the machine.

One person must be present at the back of the machine (the area where the carpet is rolled after washing) to make the first roll of the carpet and to load the washed carpet onto the transport cart.

The machine must be operated by two people.

(See Figure 1)

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

Using the buttons on the machine's display panel:

- Disc brush trolley
- Middle roller brush
- Roller squeegee system is activated.

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The position and rotation speed of the brushes on the disc brush trolley are adjusted.

Depending on the level of dirt on the carpet:

- Roller squeegee speed
- Belt rotation speed is adjusted.

The water inlet amounts are adjusted according to the level of dirt on the carpets via the valves located at the water inlets of the machine.

The detergent valves on the disc brushes are set to the most suitable level according to the level of dirt on the carpets and the amount of detergent to be used.

Once the entire system starts operating at the desired speed and direction, the machine is ready for washing.



## MACHINE'S USAGE

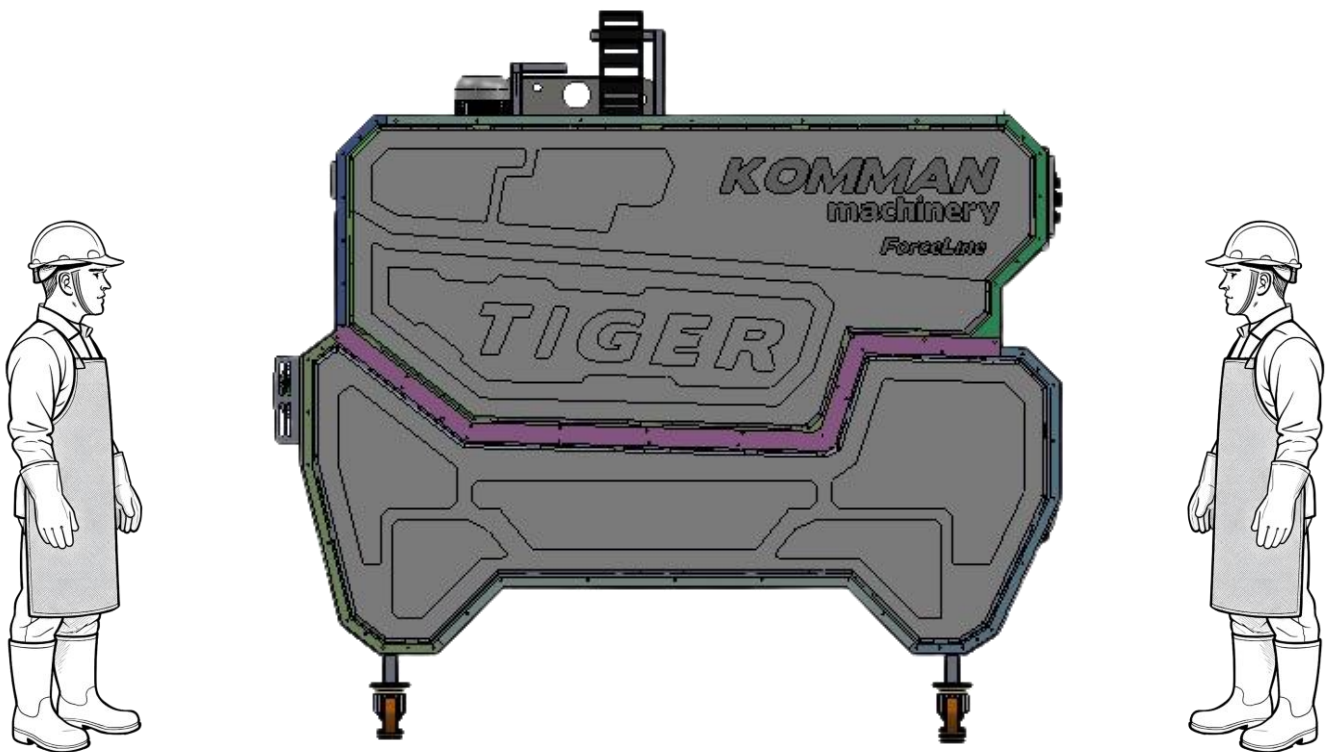


Figure.1: Carpet Washing Process

The carpet washing machine must be operated by two people. The person at the front of the machine starts it. After ensuring the brushes and belt are moving in the desired direction and speed, they feed the carpet into the machine and start the washing process. The person at the back of the machine waits for the washed carpet to reach the collecting rollers. Once the carpet is in the desired position, they make the first roll and then wait for the carpet to be collected on the collecting rollers. They transfer the collected carpet to a transport cart and take it to the wringing machine.

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## 4.2 - WASHING

The carpet, brought close to the machine using a carpet transport cart, is soaked in a soaking pool to soften stains if it is very dirty.

After the carpet is properly placed in the running machine, the machine waits for the washing process to complete.

After the washing process is finished, the carpet is rolled up with the help of collecting rollers and removed from the machine.

The rolled carpet taken from the machine is transported to the wringing machine with the help of a transport cart.

## 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 risks such as electrical leakage in the environment where the machine is operating.

## 5 - WARNINGS AND PRECAUTIONS

Before receiving your machine, check if the device has suffered any impact.

The user manual must be read carefully before using the machine.

The machine should only be used and maintained by authorized personnel.

The machine should only be used after the necessary conditions in the environment are fully met.

It is not recommended to exceed the machine's working capacity.

If the machine is used very intensively, it is recommended to rest it for half an hour after every four hours of work.

During the carpet washing process, the button used for direction adjustment allows the belt to retract due to the difference in the carpet's base. This way, the carpet is freed from where it is stuck.

Do not interfere with the machine manually while it is running.

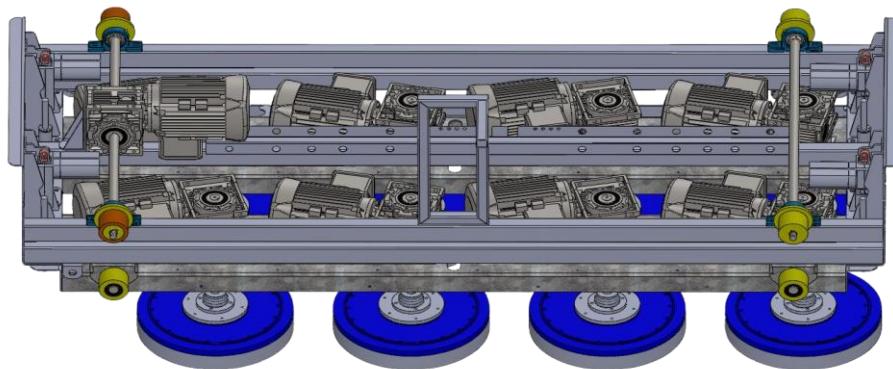
Manual interference can cause serious injury.

Although the disc brush pressure system is adjusted to the maximum pressure point with a limit switch, these brushes should not be pressed down to the point where they lie flat on thick carpets.

Otherwise, the machine's bottom layer may be damaged.

(See: Figure.2)

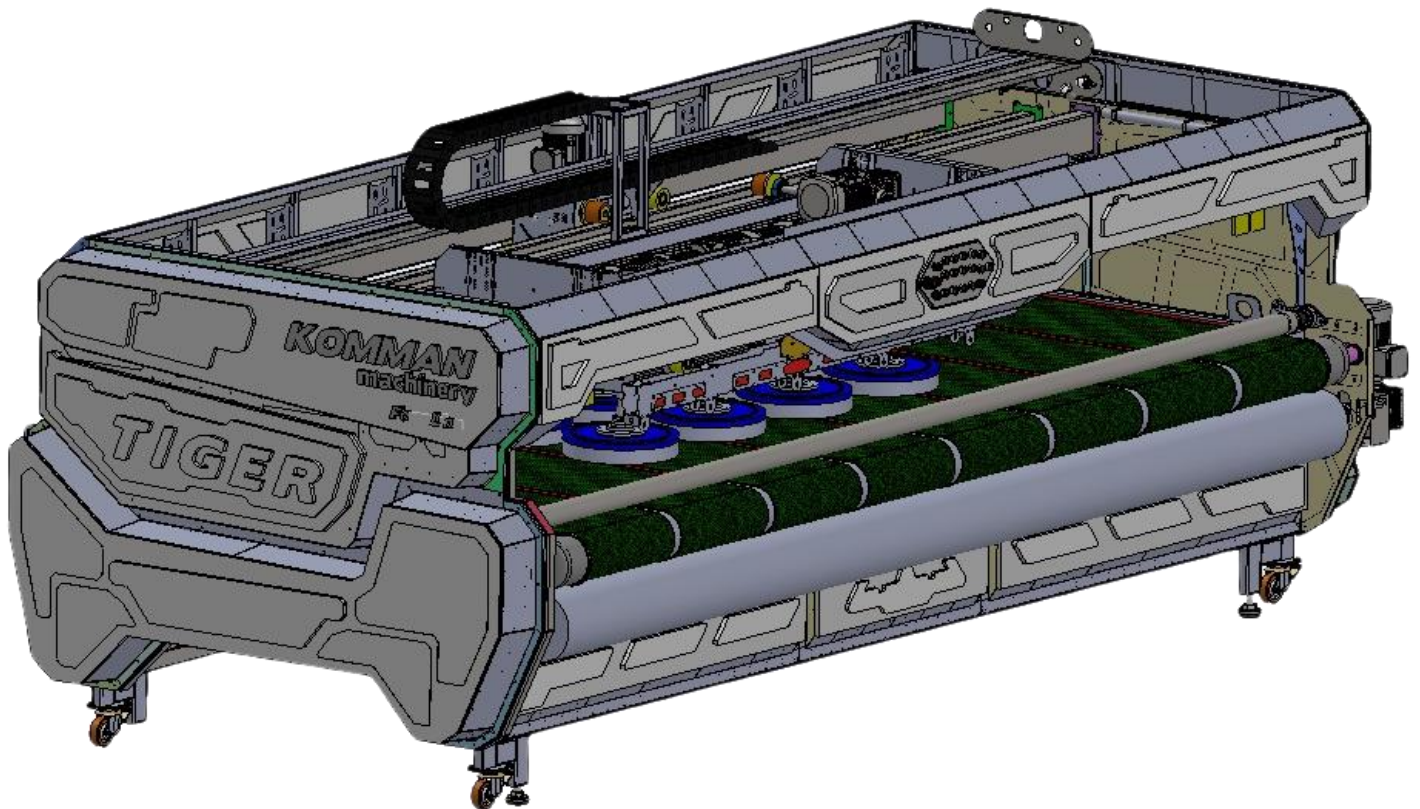
**FIGURE.2 : THE APPEARANCE OF DISC BRUSHES ON THE CARPET**



The disc brushes should be positioned on the carpet as shown in the diagram. When the disc brushes make contact with the carpet, they should be in an upright position. Applying pressure with the brushes at an angle will damage the machine's substrate, so attention must be paid to the brush position.

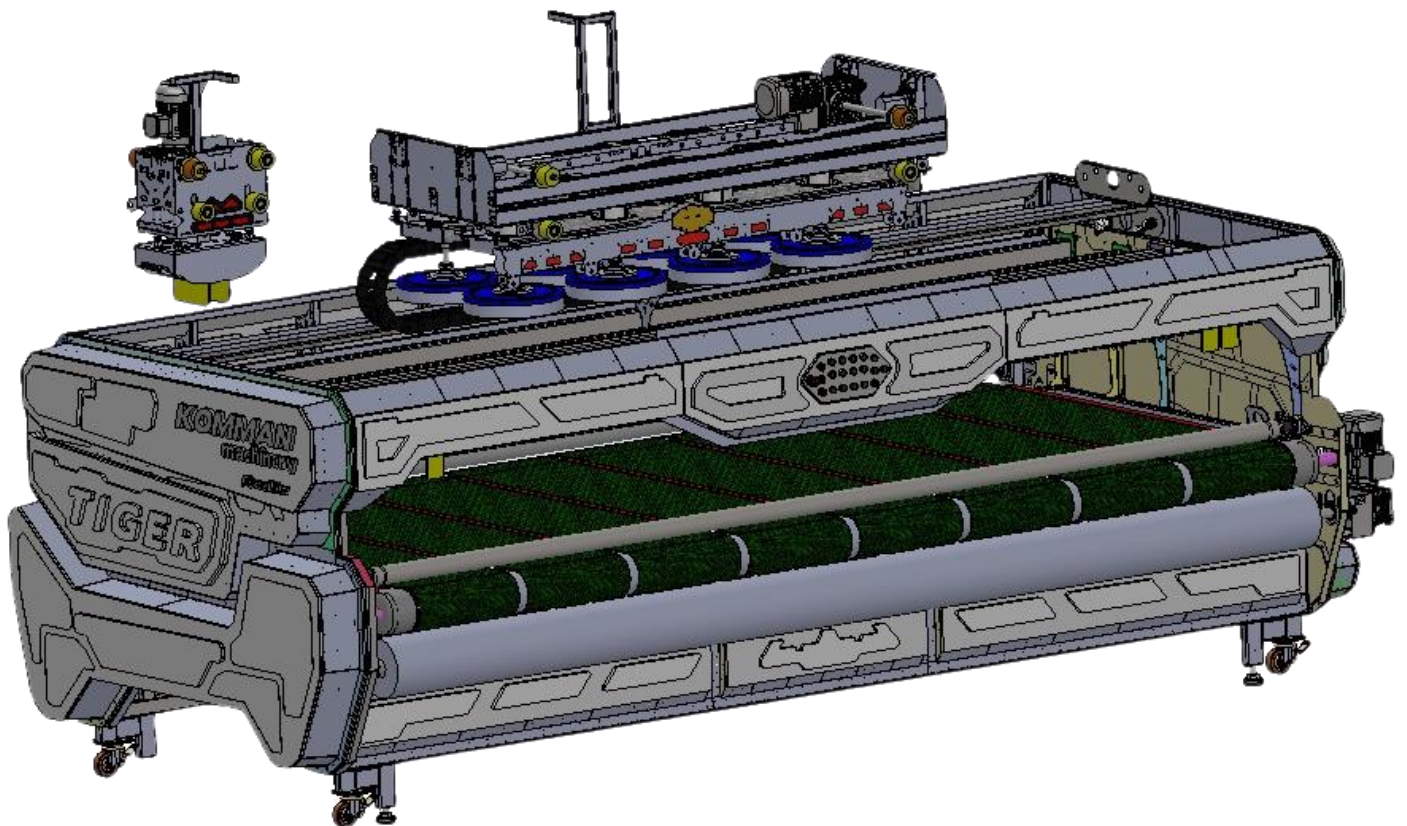


## TIGER SERIES OVERVIEW





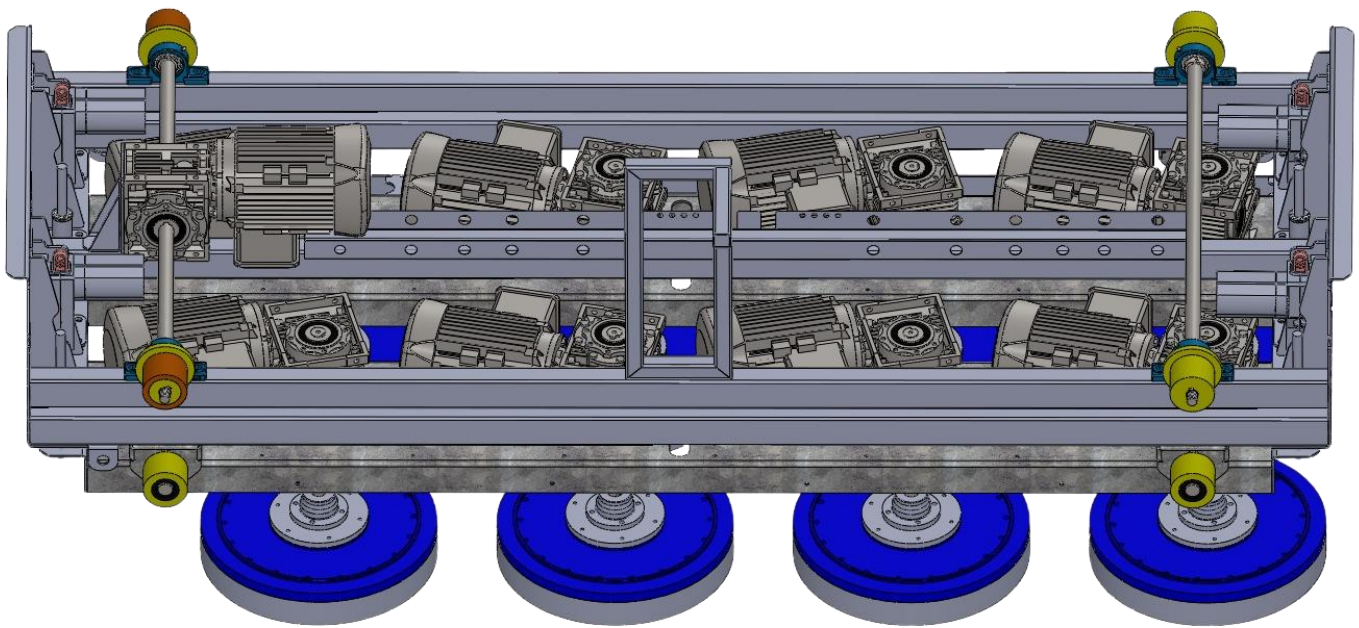
## TIGER SERIES MACHINE DETAILED VIEW





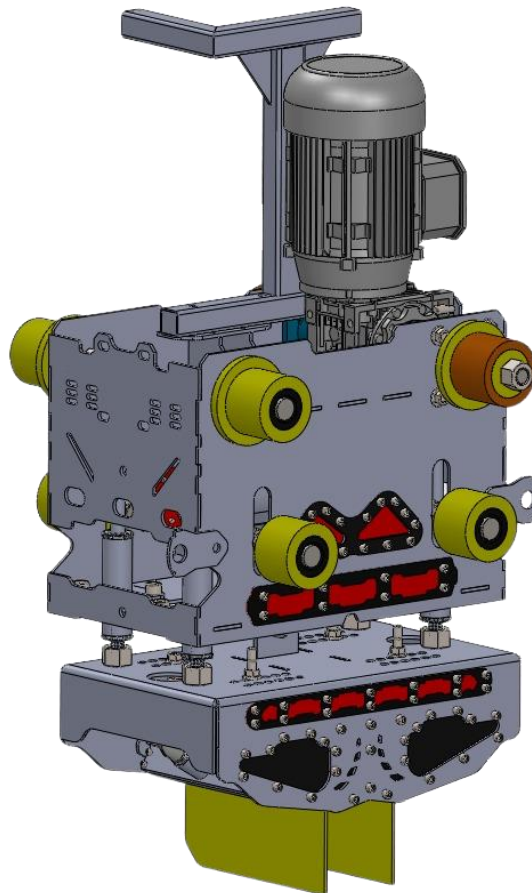
# TIGER SERIES DISC BRUSH TROLLEY

## OVERVIEW





## RINSING GENERAL VIEW



## SCREEN BOX BUTTONS AND THEIR FUNCTIONS



**DIRECTION BUTTON**

THERE ARE TWO OF THESE ON THE DISPLAY CASE. ONE IS USED TO ADJUST THE TAPE ROTATION DIRECTION, AND THE OTHER IS USED TO ADJUST THE POSITION OF THE DISC BRUSHES..



**EMERGENCY BUTTON**

USED TO STOP THE MACHINE IN EMERGENCIES. THERE ARE TWO OF THEM ON THE MACHINE. ONE IS ON THE SCREEN HOUSING AND THE OTHER IS ON THE REAR RIGHT SIDE OF THE MACHINE.



**SPEED REGULATING BUTTON**

THERE ARE 3 BUTTONS ON THE MACHINE'S DISPLAY PANEL. ONE IS USED FOR BELT ROTATION SPEED ADJUSTMENT, THE SECOND FOR DISC BRUSH ROTATION SPEED ADJUSTMENT, AND THE THIRD FOR ROLLER SQUARE MECHANISM SPEED ADJUSTMENT.



**STOP BUTTON**

**IS FOR TURNING OFF THE  
MACHINE**



**START BUTTON**

**IS FOR TURNING ON THE MACHINE**

IT IS RECOMMENDED THAT THE ROLL SLEEPER SYSTEM NOT BE OPERATED TOO FAST. THE MACHINE SHOULD NOT BE USED FOR CLEANING PRODUCTS OTHER THAN CARPETS. IN CASE OF ANY EMERGENCY, THE MACHINE SHOULD BE STOPPED BY USING THE EMERGENCY BUTTONS ON THE DISPLAY BOX AND THE BACK OF THE MACHINE.

## **6 - OPERATOR**

REGARDING MACHINE OPERATION, PERSONS WHO WILL BE USING THE MACHINE SHOULD BE INFORMED ABOUT HOW TO USE IT AND SAFE WORKING METHODS.

## **7 -MAINTENANCE**

BEFORE STARTING MAINTENANCE, ALL ELECTRICAL CONNECTIONS TO THE MACHINE MUST BE DISCONNECTED. MACHINE MAINTENANCE MUST BE PERFORMED BY AUTHORIZED PERSON(S).

AFTER EVERY 10,000 M<sup>2</sup> OF CARPET WASHING, THE CARPET FIBERS ACCUMULATED ON THE MACHINE MUST BE CLEANED.

THE DISC BRUSHES ON THE LARGE TROLLEY OF THE MACHINE MUST BE REPLACED AFTER A MAXIMUM OF 3000 HOURS OF USE.

CARE MUST BE TAKEN TO ENSURE THAT THE BEARINGS ARE LUBRICATED CORRECTLY AND ON TIME.

BEARINGS SHOULD BE LUBRICATED AFTER A MINIMUM OF EVERY 10,000 HOURS OF USE.



## **8 - SERVICE**

MAINTENANCE OF ALL MACHINES NOT COVERED BY WARRANTY OR WHOSE WARRANTY PERIOD HAS EXPIRED IS PROVIDED FOR A FEE.

IF THE MACHINE IS NOT UNDER WARRANTY, A SERVICE AND TRANSPORTATION FEE WILL BE CHARGED.

THE DETERMINING FACTOR IN SERVICE IS THE CONTRACT MADE WITH THE BUYER.

SERVICE IS PROVIDED BY KOMMAN MAKINA ITSELF OR BY AUTHORIZED SERVICE CENTERS DETERMINED BY KOMMAN MAKINA.

## **9 - WASHING CAPACITY**

THE TIGER SERIES CARPET CLEANING MACHINES HAVE AN AVERAGE WASHING CAPACITY OF 150 M<sup>2</sup> PER HOUR.

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## WARNING SIGNS



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



, TOUCHING ANY PART OF THE MACHINE BY HAND WHILE IT IS RUNNING MAY CAUSE YOUR HAND TO BE TRAPPED UNDER THE PRESSURE ROLL, THE BOTTOM PLATE OF THE DISC BRUSHES, OR THE WHEELS OF THE LARGE CARRIAGE AND THE ROLLER WALKIE-TALKIE. THEREFORE, YOU SHOULD NOT TOUCH ANY PART OF THE MACHINE BY HAND WHILE IT IS RUNNING.

## 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

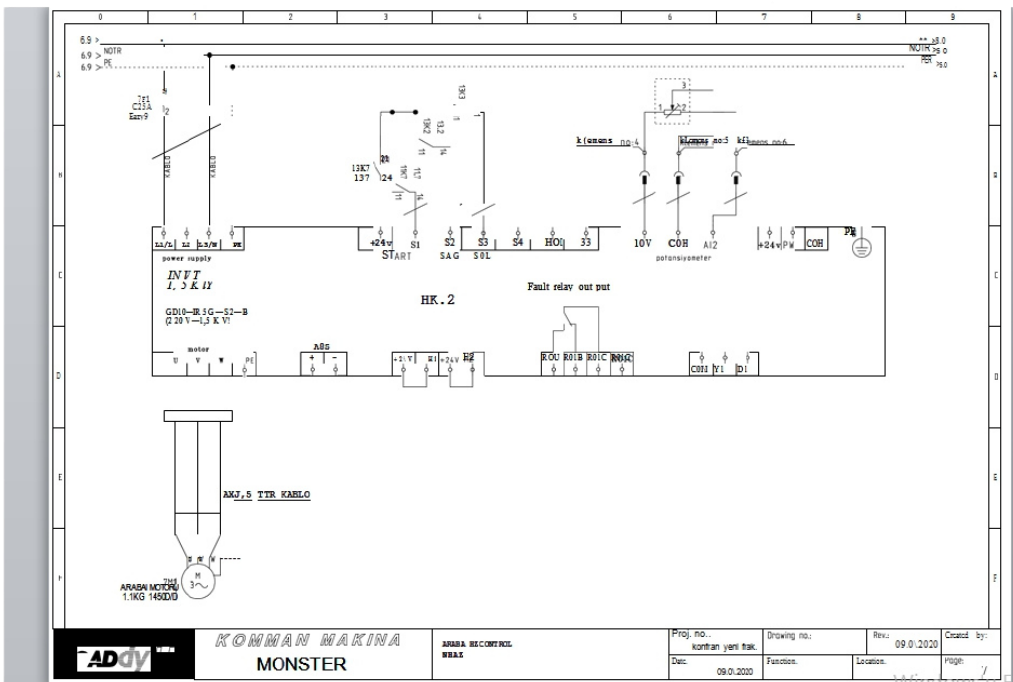
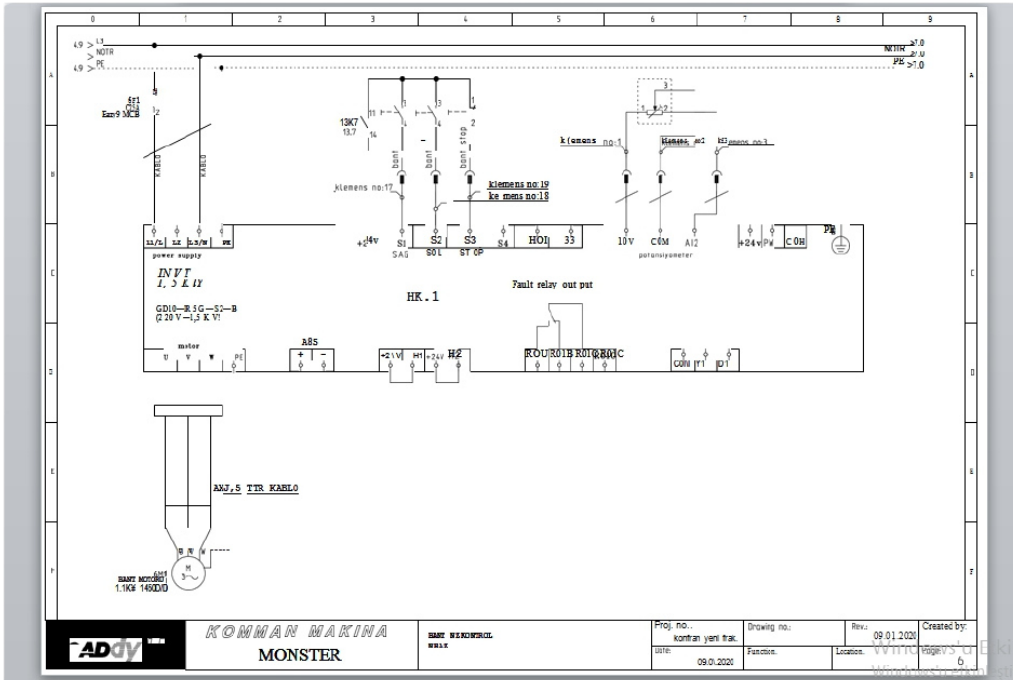


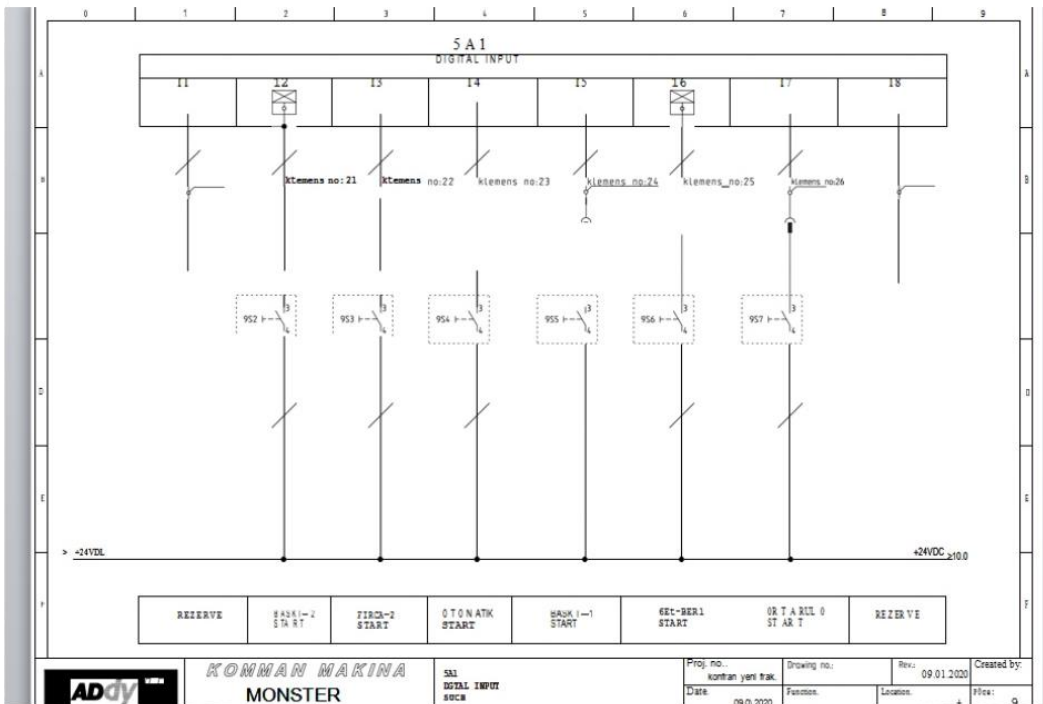
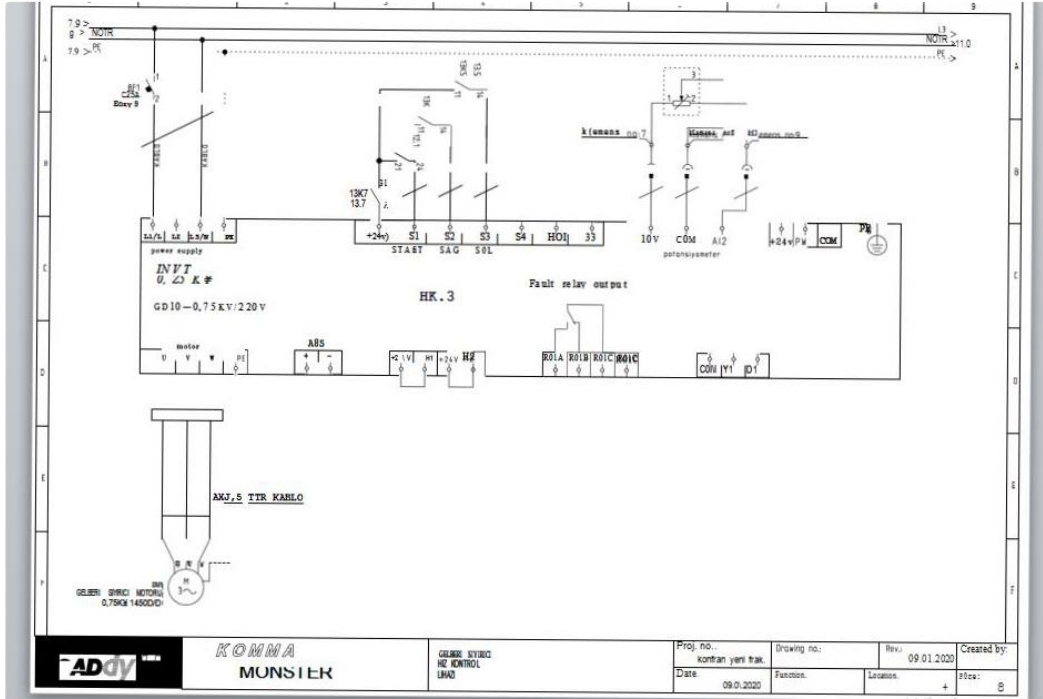
Do not reach-finting clothing



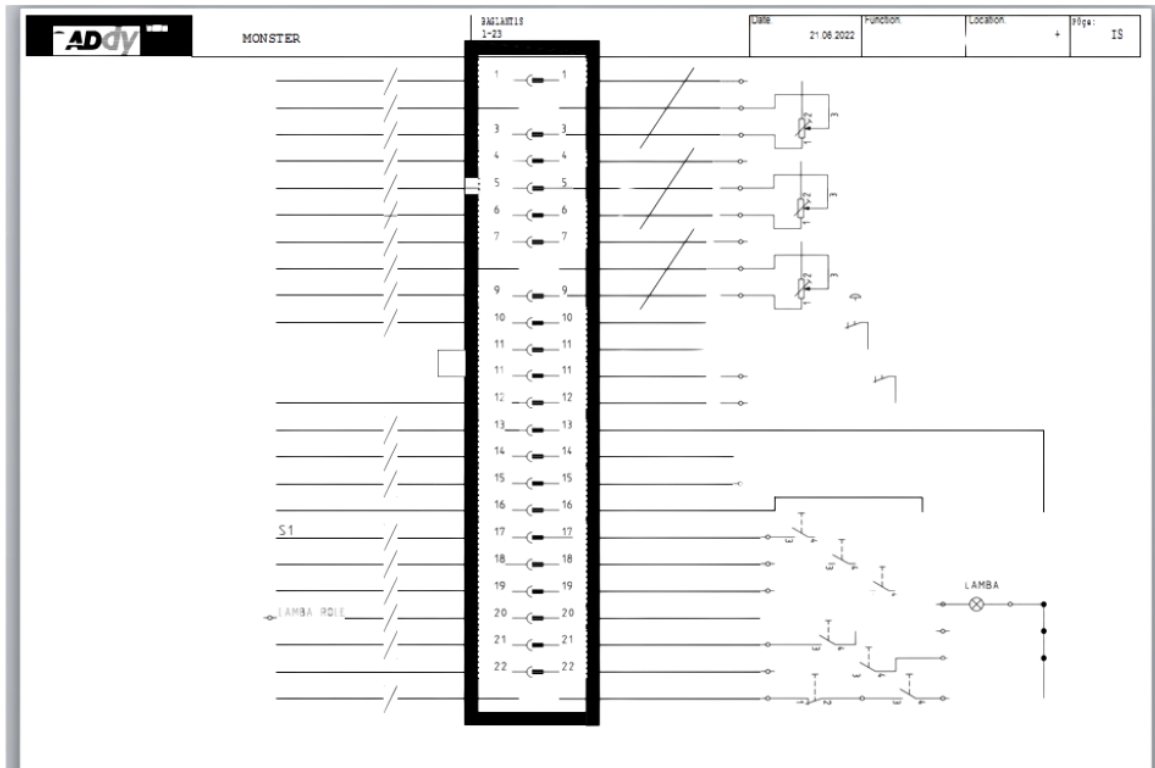
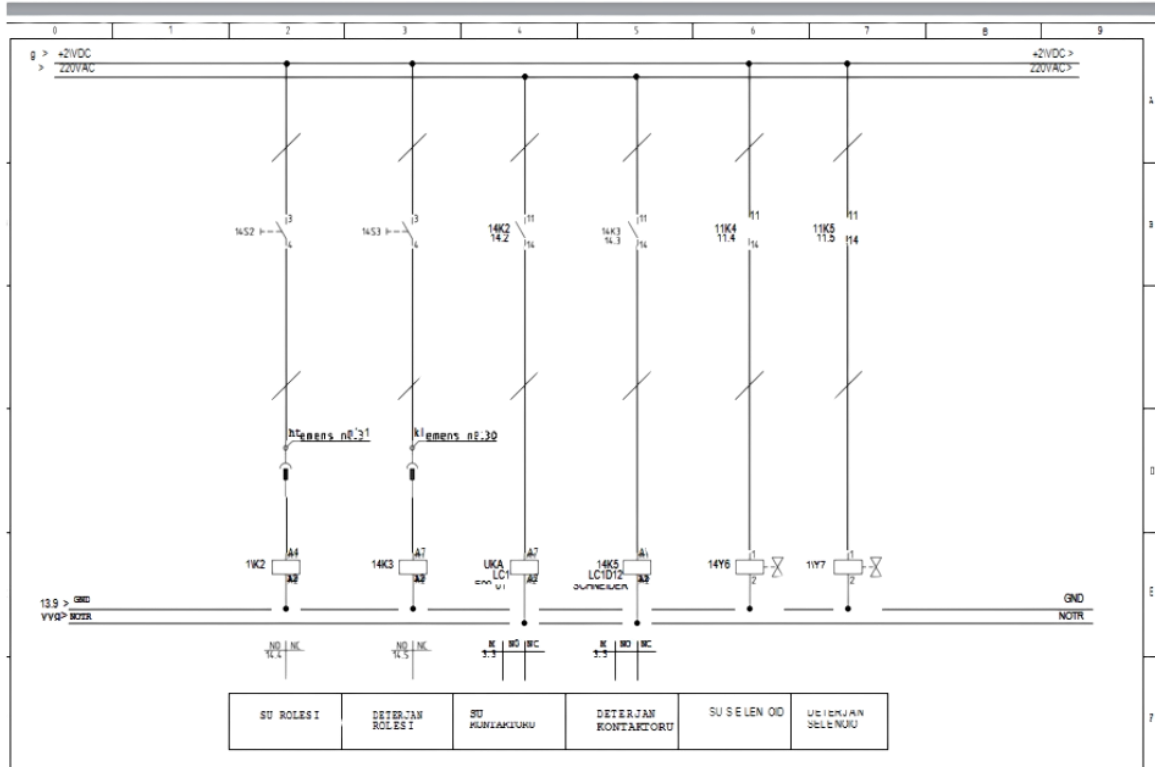
Do not reach into moving machinery

# ELECTRONIC CIRCUIT DIAGRAMS











# KOMMAN

Rug & Carpet Washing Machines

