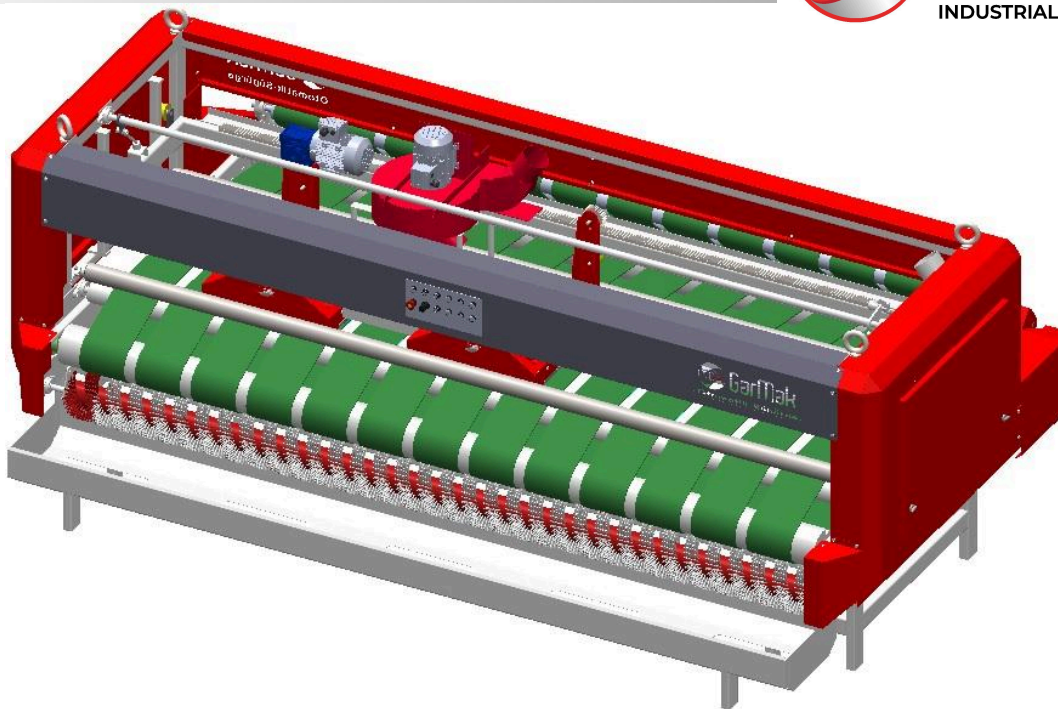


User Manual & Warranty Certificate



Garmak
INDUSTRIAL CLEANING TECHNOLOGY



P SERIES CARPET SWEEPING AND PACKING MACHINE

CONTENTS

1. Entrance	3
2. Machinery Parts	4,5,6
3. Technical Specifications	7
4. Placement	8
5. Workflow Diagram	9
6. Setup	10
7. Operating the Machine	11
8. Care	12
9. Malfunctions and Solutions	13,14
10. Warranty Scope	15
11. Special Situations	16

1. ENTRANCE

Dear Gar-Mak user, first of all, thank you for choosing the Gar-Mak brand.

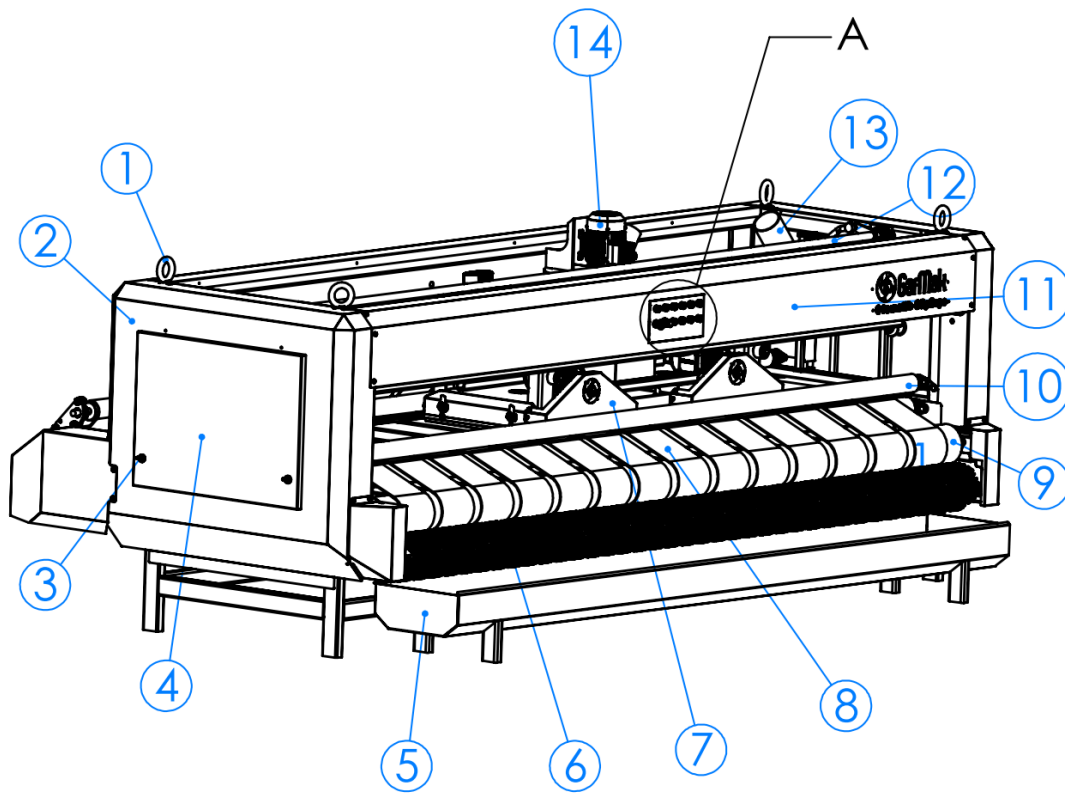
This product is a machine that you can use in the carpet washing factory to sweep the dust adhering to the carpets after they are washed, to comb the pile threads, and to easily perform the final check before packaging. Thanks to the Gar-Mak industrial carpet sweeping machine, you can preserve the value of all the work done before by performing the final checks after washing. The vacuumed carpet is checked for the last time by the personnel under LED light, making it easier for the staff to detect errors. Thanks to the perfume and disinfection modules, it is aimed to provide a hygienic smell on the carpet and a surface free from mites and bacteria. Please review this manual carefully in order to operate your carpet sweeping machine with high efficiency and economy and to use it for a long time.

In addition to usage information, the manual includes introductory and technical data about the product, assembly, commissioning, workflow diagram, installation, first start-up, maintenance, malfunctions and solutions and warranty coverage. For more detailed information about your product, you can access the product web page, catalog or brochure and, when necessary, Gar-Mak's contact information.

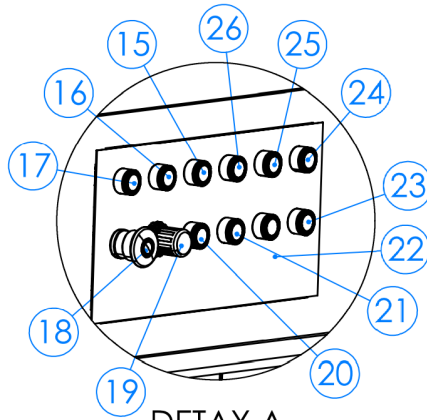
After the Gar-Mak carpet sweeping machine is installed by our authorized service, necessary information will be given about the use and maintenance of the product. You can ask unclear questions over and over again. Keep this user manual in a safe place to use as a reference source. We wish you good work.

Gar-Mak R&D Team

2. MACHINE PARTS



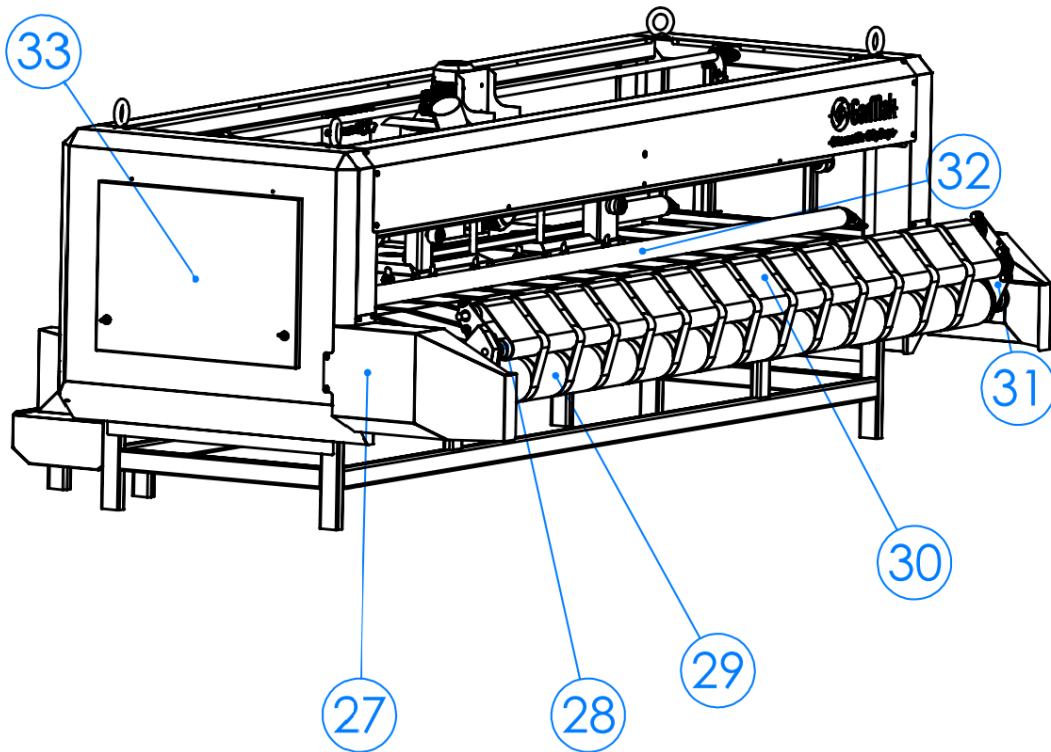
1. Machinery Transport Aybolt
2. Left Hood
3. Latch Cover Lock
4. Left Cover
5. Carpet Loading Rack
6. Bottom Washing Brush
7. Vacuum Belt Housing
8. Conveyor Belt
9. Front Belt Drum
10. Inlet Pipe
11. Front Eyebrow
12. Bridge Press Pipe
13. Dust Bag Inlet Pipe
14. Snail Fan Motor



DETAY A

15. Bottom Sweeper On/Off Button
16. Belt On/Off Button
17. Perfume On/Off Button
18. Emergency Stop Button
19. Belt Speed Adjustment Button
20. Sweeper On/Off Button
21. Sweeping Brush On/Off Button
22. Control Panel
23. Error Signal Lamp
24. Energy Signal Lamp
25. Bridge Lift Button
26. Vacuum On/Off Button





- 27. Belt Motor Housing
- 28. Automatic Winding Pipe
- 29. Rear Belt Drum
- 30. Automatic Winding Broad Tape
- 31. Automatic Winding Side Flange
- 32. Outlet Pipe

Figure 1 (General View)

PRODUCT CODE	P6025	P6030	P7035	P8042
Bandwidth	2.5 m	3 m	3.5 m	4.2 m
Roll Sweeper	4 Pieces	4 Pieces	4 Pieces	4 Pieces
Vacuum	4000 m ³	4000 m ³	4000 m ³	5000 m ³
Speed	6 m/week	6 m/week	6 m/week	6 m/week
Electricity Consumption	6 kw/s	6 kw/s	7 kw/s	8 kw/s
Bottom Sweep	√	√	√	√
LED Lighting	√	√	√	√
Roll Wrapping	√	√	√	√
Electrical Supply*	3Faz 380V 50Hz	3Faz 380V 50Hz	3Faz 380V 50Hz	3Faz 380V 50Hz
Certificate	CE, GOST-R	CE, GOST-R	CE, GOST-R	CE, GOST-R
Guarantee	1 Year	1 Year	1 Year	1 Year
Width	310 cm	360 cm	410 cm	480 cm
Depth	170 cm	170 cm	170 cm	170 cm
Height	150 cm	150 cm	150 cm	150 cm
Accessories	Roll Bag Hanger, Carpet Chamber	Roll Bag Hanger, Carpet Chamber	Roll Bag Hanger, Carpet Chamber	Roll Bag Hanger, Carpet Chamber
Weight	1200 kg	1350 kg	1550 kg	1750 kg

*60 Hz can be produced optionally.

- Production is made in special sizes.

4. PLACEMENT

GarMak carpet sweeper machines winch, hoist, forklift or pallet truck can carry. Apart from this, special transport wheels are also available. available. In all modes of transportation, the rubber suction cups on the lower legs of the machine, if any, must be removed. This will both provide ease of transportation and prevent the part from deforming.

Due to the weight of the machine, do not try to move the machine by force with a single personnel. Do not remove the covers to insert them into areas where the machine cannot enter. Position the machine in your packaging area in a way that provides easy working distance in front and behind. When positioning the machine, choose a position that will reduce carpet transport. Positioning the machine close to the passage route of the packaging area allows the incoming carpet to be directly vacuumed.

Leave a distance of 50 cm to the side of the machine where the doors can be opened. Leave a working distance of 100 cm in front of the machine and a minimum of 150 cm behind it. The carpet sweeping machine cannot be installed outdoors, even if it is protected; exposure to wind and rain is harmful to the life of the machine.

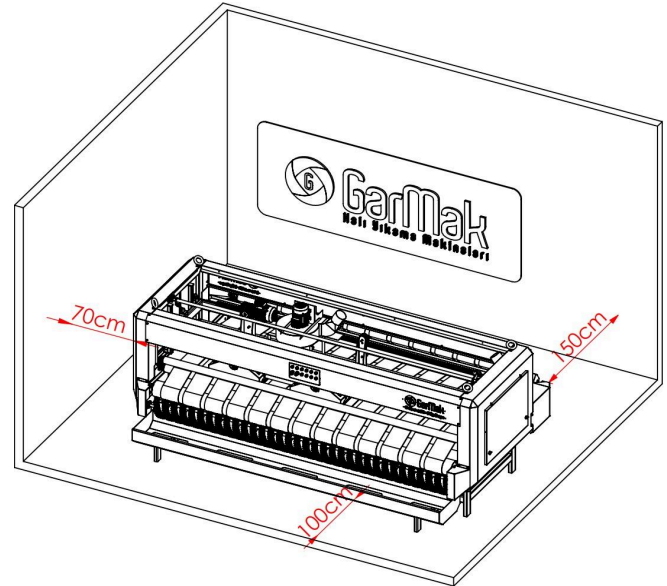


Figure 6 (Machine Positioning Diagram)

5. WORK FLOW CHART

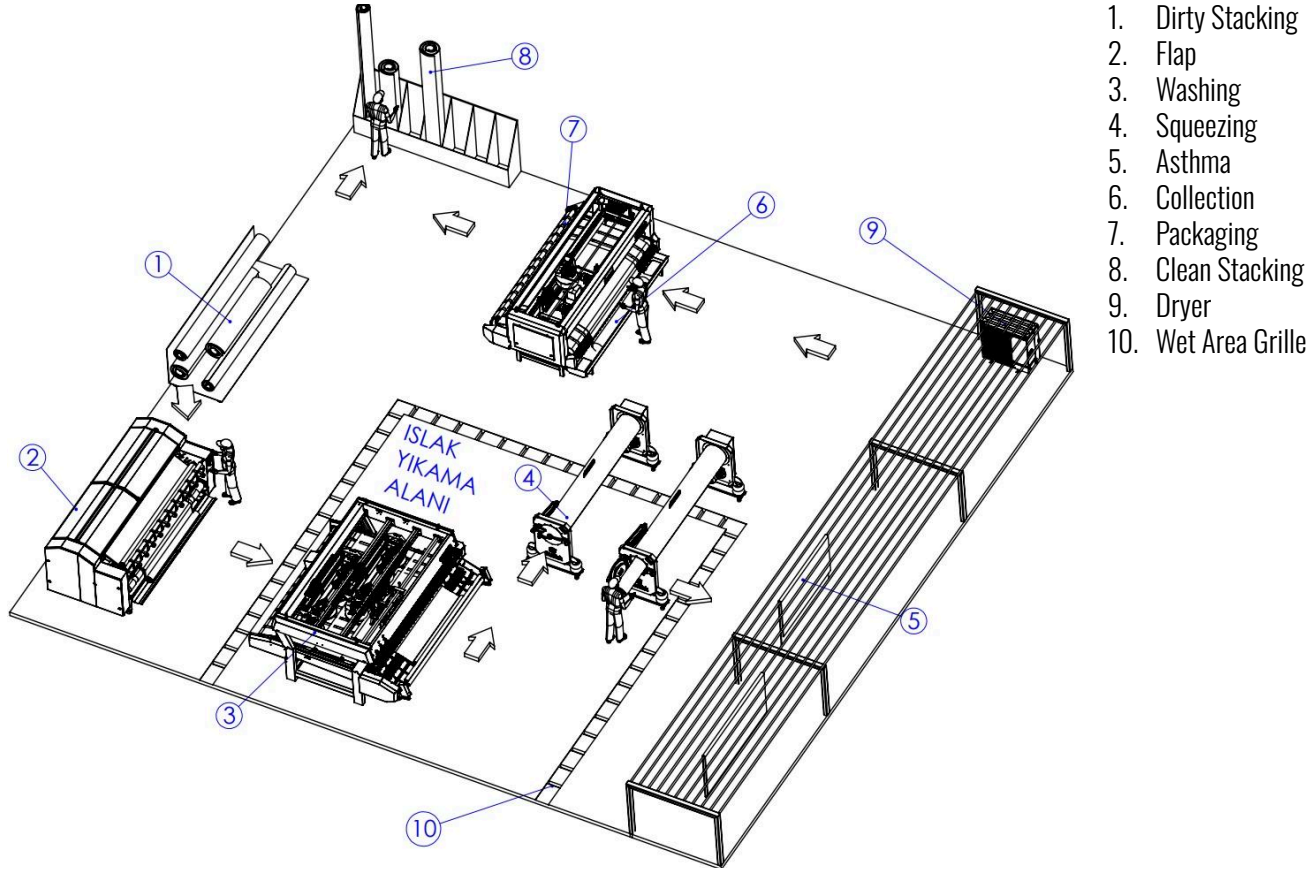


Figure 7 (Ideal Workflow Diagram)

6. INSTALLATION

The plug of the installed sweeping machine must be easily accessible.

Before inserting the plug into the socket, pay attention to the following:

- The grounding of the socket complies with the applicable standards;
 - The socket must be able to carry the maximum power specified in the technical specifications table of the machine;
 - The socket is compatible with the plug of your machine. Otherwise, replace the plug or socket.
1. Before starting any operation on the machine, the operating switch and emergency stop button must be in the off position.
 2. The machine should be installed on a flat surface.
 3. If the place where the machine will be placed is clear, you can lower it to that area by attaching its wedges.
 4. In order for the machine to operate, it must be connected with a 380 Volt 3 phase 50 Hz and a resistant fuse with a load rating of up to 32 amps.
 5. The vacuum bag of the machine should be installed inside the side cover. It should be checked every day and emptied before it is full or replaced with a spare.
 6. Make sure the machine vacuum hoses are fully attached.
 7. Before the first start-up, the parts of the machine that will come into contact with the carpet should be cleaned.
 8. Before the first start-up, the height of the surface to vacuum the carpet should be checked and the ideal space for the carpet to pass should be left.
 9. If the top covers, rear covers and side covers of the machine are closed, you can start operating.

7. OPERATING THE MACHINE

1. Attention! Before feeding the carpet into the machine, make sure that there is no material other than carpet on the belt.
2. Do not work long dresses, scarves, skirts, shawls, etc. hanging from you while the machine is operating. Do not approach the machine with clothes on. Such clothes caught in the machine can cause fatal accidents.
3. When the electrical equipment is provided to the machine correctly, the start and emergency stop buttons should be turned and opened, the locking / unlocking button should be turned and the correct direction of rotation of the motors should be checked.
4. If the phases are connected incorrectly, the machine will not work. For the correct direction of rotation, the phases must be reconnected by relocating them. The siren of the incorrectly connected machine will sound.
5. The carpet should be left rolled flat in the chamber of the machine, as seen in the figure above, and placed on the belts of the machine with the threads facing up.
6. The carpet should be placed parallel and flat to the belt pipe. Do not place any carpet in the machine diagonally or with the ends curled.
7. Feed the carpet to the machine by activating the Belt, Bottom Sweeper, Sweeper, Brushes, Vacuum, Perfume buttons in sequence.
8. Belt speed adjustment should be made so that the sweeper vacuums the entire carpet at least once. Unswept surfaces may remain in carpets that are vacuumed too quickly.
9. In order to prevent the carpet from deforming, the lower roller brush does not move without operating the belt.
10. If the sweeping trolley is not adjusted to a sufficient height while vacuuming, the carpet may get stuck between the sweeper and the belt. To prevent this from happening, it is vitally important that you check the carpet progress at first start-up.
11. Adjust the working width of the machine by moving the switch stops. In order to sweep the carpet ideally, the sweeper must move at least 50 cm.
12. You can feed carpets into the machine one after the other or side by side.
13. Do not put carpets that are rotten or at risk of tearing or breaking into the vacuum cleaner.
14. The sweeping process is completed when the carpet is automatically performed in the back chamber and automatically rolled into a roll.



Machine Main Control Panel

8. MAINTENANCE

Gar-Mak industrial carpet sweeping machine is produced with high performance and quality to be used for many years. In order for the carpet sweeping machine to maintain its durability and performance, the maintenance instructions in this section should be read carefully and the machine should be maintained in accordance with the procedure.

1. The most important thing to pay attention to in carpet sweeping machine maintenance is cleaning. The machine must be cleaned at the end of the day. In machines that work intensively, the vacuum bag should be cleaned every other day. At the same time, the underside of the machine should be vacuumed every day at the end of work. Since the sweeping machine treats clean carpets, the cleaner the machine is, the cleaner the job will be.
2. The ball bearings, moving rollers and plastic gears of the machine should be lubricated with grease from the grease fittings every 6 months and the excess oil should be wiped off with a cloth.
3. At the end of 1 year, the reducer oils of the machine should be checked and additional oil should be added to the reducer whose oil has run out.
4. The v-belts inside the protection covers of the machine should be checked, the v-belt residues inside the protection covers should be swept away with the help of a broom, and the v-belts should be replaced with new ones every year.
5. Electrical circuits should be kept away from moisture and water. Electrical cables should not be routed through open spaces, they should not be stepped on, and if they are worn or broken, they should be replaced immediately.
6. While the machine is operating, all covers must be closed and the machine must not be operated while it is open.
7. Warning signs on the machine must be adhered to, and hands and feet must not be inserted into rotating or moving parts.
8. You should not approach the brush at the front of the machine with hanging clothes, and uninformed personnel should be prevented from using the machine.
9. The machine must be used by trained people. Please do not deliver the machine without training your new staff.

9. FAULTS SOLUTIONS

1. The machine folds the carpets.

- 1.1. While the carpet sweeping machine is vacuuming the carpets, it can move some carpets left and right on the belt due to its powerful vacuum. If these carpets have a shrinking structure like rugs, utmost care should be taken when vacuuming these carpets. The carpet should be sandwiched between two pipes, and the pressure of the sweepers on the carpet should be reduced. You can apply manual vacuuming to very loose special carpets.
- 1.2. Using a vacuum alone may cause the carpet to fold. Check that the vacuum and sweeping brushes are working together while vacuuming the carpet. The machine brushes and rotation direction prevent the carpet from lifting off the belt.
- 1.3. In cases where the bridge where the sweeper is located is not parallel to the belt, the sweeper may cause the problem of constantly folding the carpet from one side. In this case, the sweeping bridge of the machine should be adjusted from the edge hangers and made parallel to the belt.
- 1.4. There may be deformation in the bottom covering plate of the sweeper. Check with the machine turned off by lifting the bridge up. If the sweeper lower protection sheet is deformed, replace it with a new one.
- 1.5. After the sweeper brushes are replaced, carpets may fold. Make sure that the brush to be used is original and approved by GarMak. The bristle length, flexibility and nail shape of some brushes may increase the likelihood of carpet folding. Be careful to use original GarMak brand brushes.

2. Vacuum does not suction.

- 2.1. Make sure the vacuum motor is rotating in the correct direction. When the vacuum is turned on, the vacuum bag inflates like a balloon. If the dust bag does not inflate, the direction of motor rotation is reversed. Change the direction of the vacuum motor by changing the phase connections on the panel.
- 2.2. Check the connections of the vacuum hose, if it is disconnected, loosen it from its clamp and reconnect it.
- 2.3. If the vacuum hoses are clogged, remove them and clean them.
- 2.4. Thread clumps vacuumed from excessively dusty carpets can in turn clog the sweeper, the hoses leading to the fan, and the inside of the vacuum fan. In these cases, the transparent hoses between the sweeper and the fan should be removed and both mechanisms should be checked.
- 2.5. The dust bag in which the vacuum stores the vacuumed dust should be checked daily. Sometimes even a few carpets with excessive fluff can fill the bag. You should check the bag daily.

3. Machine start button does not work.

- 3.1. Have the electrical connection checked by an electrician.
- 3.2. Make sure that the phases are connected correctly.

4. There is excessive noise.

- 4.1. The bearings of the high-speed rotating parts of the machine must be replaced with new ones during annual maintenance. The rotation speed of the brushes can reduce the life of the brush bearings by up to one year, depending on your usage intensity.
- 4.2. The bottom sweeping brush of the machine may feel itchy while shifting. The squeak can be stopped by loosening and tightening the grub screws of bearing bearings that are likely to make a squeaking sound between two contracting bearings.
- 4.3. When the moving parts of the machine need lubrication, they can make a similar squeaking sound. These rollers and plastic gears need to be lubricated every 6 months.
- 4.4. If the machine covers are open or half open, vibration may cause the machine to rattle. You must operate the machine in the closed position by placing the covers' latches in the closed position.
- 4.5. Thread may be tangled in the sweeper. The sweeper should be checked regularly, and in case of thread entanglement, the lower cover sheet should be removed and the tangled threads should be cut, and the sweeping brushes should be allowed to operate freely.
- 4.6. On carpets with high pile height, the vacuum cleaner may make a bit of noise. Don't worry, it's safe.
- 4.7. If there is an abnormal problem in the sweeping mechanism, report the situation to the GarMak service representative.
- 5. When I start the machine, there is a sound from the engine, but the machine does not start.**
 - 5.1. One of your phases may not be coming. Have your phases checked by an electrician.
 - 5.2. Check the contactors or motor protection switches on the main panel.
 - 5.3. There may be a break in the cables. Have your wiring checked by an electrician.
 - 5.4. The engine may have burned out. Replace it with a new one.
- 6. The machine does not vacuum the carpet sufficiently.**
 - 6.1. Check by turning on the sweeping brushes and vacuum respectively. If it does not work, make sure that the buttons and the switch on the electrical panel are working respectively.
 - 6.2. If the vacuum is working and not vacuuming up some dust particles, the brushes may be at the end of their life. Check the length of the brushes by lifting the brush mechanism up. If there is a 1cm protrusion from the bottom of the sweeper lower casing, it is time to replace the brushes with new ones. If the length of the brush is sufficient, confirm that the brushes are rotating by checking the V-belts that rotate the brushes. If the brushes do not rotate, the belt mechanism may be loose or the belts may have expired. Replace it with a new one.
 - 6.3. Some carpets may contain excessive dust depending on use. You can pass such extremely dusty carpets through the machine more slowly, or you can ensure effective vacuuming by running the belt backwards and repeating the same process.
 - 6.4. Check whether the sweeping brushes are touching the carpet. If not, lower the bridge enough to allow the sweepers to press on the carpet surface.
 - 6.5. If the machine's vacuum mechanism does not work, follow the instructions in item 1, respectively.

10. POCKET GUARANTEE

The following situations take the machine out of warranty.

1. Machines that have not been installed, have not been trained, and whose warranty certificate has not been signed are out of warranty.
2. 365 days after installation.
3. Not using the machine as instructed in the user manual and training.
4. Ignoring malfunctions that occur or may occur in the machine and operating the machine malfunctioning.
5. Incorrect use with insufficient information.
6. Failure to provide adequate and timely maintenance to the machine.
7. Exceeding the permitted capacity of the product.
8. Malfunctions that may occur in the machine as a result of incorrect use by untrained people.
9. Any problems that may occur during transportation and shipment.
10. Malfunctions that may occur in the electrical installation of the machine as a result of electrical problems arising from the electrical network during product assembly.
11. Malfunctions that may occur as a result of incorrect connection and electrical failures due to voltage drop.
12. Installation, maintenance and location changes made without the approval of Gar-Mak officials.
13. The workplace, ground and environment where the product is placed are not suitable for operating machinery.
14. All problems that may arise as a result of the use of unhealthy personnel (staff addicted to alcohol, drugs and similar stimulants).
15. Malfunctions that may occur as a result of improper layout of the machine.
16. Problems that may occur as a result of using tools and equipment that are not suitable for the machine.
17. Floods, traffic accidents, lightning strikes, earthquakes, etc. that may occur in the places where the machine is placed. Malfunctions caused by the effects on the machine.
18. Electric motors and malfunctions that may arise from electrical problems.
19. Malfunctions that may occur as a result of not adequately lubricating the machine from the places that need to be lubricated.
20. Malfunctions that may occur as a result of not cleaning the machine sufficiently.

11. SPECIAL SITUATIONS

1. Malfunctions that may occur as a result of removing the protection covers on the machine and the resulting injuries, injuries and deaths,
2. Malfunctions and errors that may occur as a result of not feeding the carpets to the machine in the shape and direction shown in the training and user manuals,
3. Malfunctions that may occur as a result of placing the carpets folded into the machine,
4. Malfunctions that may occur as a result of all kinds of welding, drilling and adaptation to the machine,
5. Problems that may occur as a result of using the machines without performing the general cleaning that should be done when the machine is first used;

Gar-Mak Machinery and its officials cannot be held responsible.

<p>Manufacturer Company Gar-Mak Machinery Chemical Engineering Industry and Trade Limited Company Dumlupınar Mahallesi Alize Caddesi No. 5 Nilüfer Bursa Türkiye Telephone: 0224 346 05 95 Fax : 0224 346 05 96 info@gar-mak.com www.gar-mak.com</p>	<p>Buyer Information:</p> <p>Installation Date: Product Serial Number: I received the machine in working condition. I received an education. I accept the information, warranty coverage and special conditions in the user manual. Signature:</p>
<p>Delivery Personnel Information: Signature:</p>	<p>Installation Date: Product Serial number: Buyer Signature:</p>

