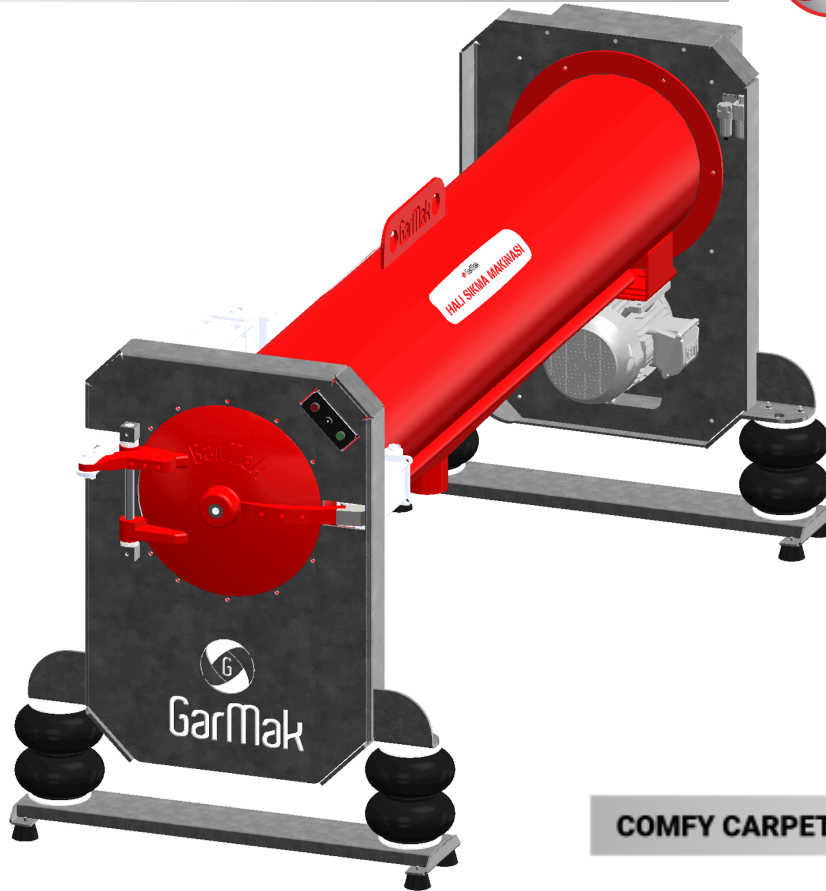


User Manual & Warranty Certificate



COMFY CARPET WRINGING CENTRIFUGE MACHINE

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1. ENTRANCE

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

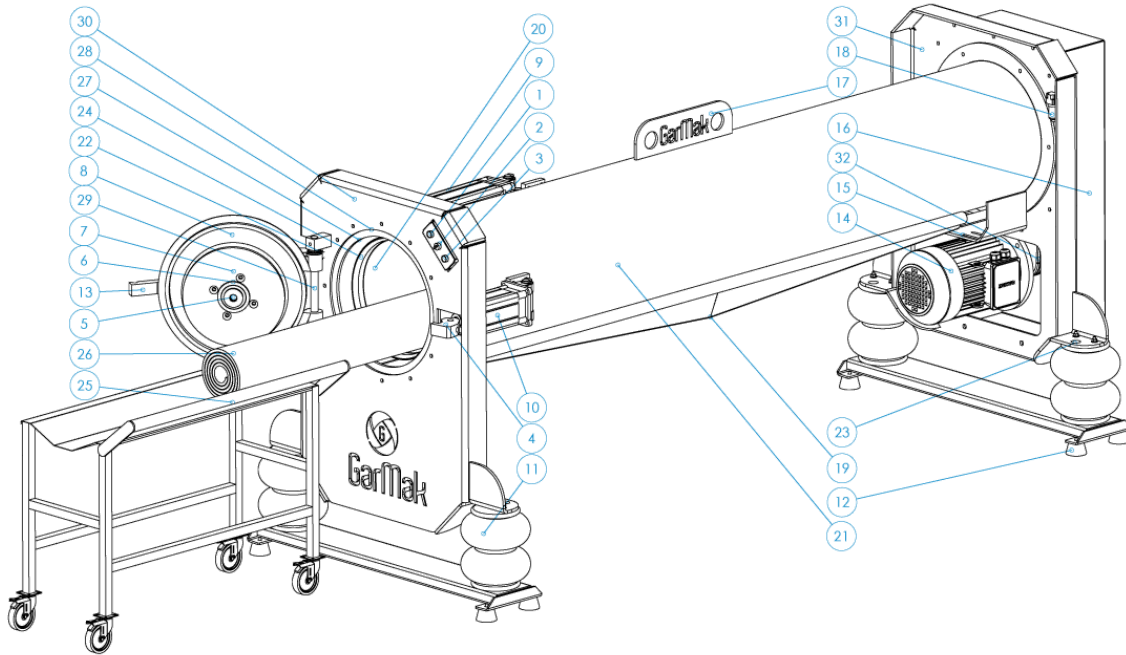
This product is a product that you can safely and easily squeeze and dry your wet carpets washed in carpet washing and cleaning factories. Thanks to the Gar-Mak industrial carpet wringing machine, freshly washed carpets can be dried up to 95% within 2 days, and you can purify your carpet from dirty water and waste. Please review this manual carefully in order to operate your carpet extractor 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 spinning 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 comfortable work in advance.

Gar-Mak R&D Team

2. MACHINE PARTS



1. Start Button
2. Cover Lock/Unlock Button
3. Emergency Stop Button
4. Piston Locking Latch
5. Kestamid Mounting Bolt
6. Front Cover Bearing Hub
7. Kestamid Ax
8. Ductile Iron Cover
9. On/Off/Plunger
10. Locking Piston
11. Vibration Bellows
12. Rubber Suction Pad
13. Cover Locking Latch
14. Electric Motor
15. Engine Tension Rail
16. Rear Housing Cover
17. Transport Eyebolt
18. Pneumatic Lubrication Regulator / Cleaning Filter
19. Drain Pipe
20. Inner Drum
21. Outer Drum
22. Hinge Ball
23. Bellow Valve
24. Inner Drum Circle
25. Carpet Transport Trolley
26. State
27. Outer Drum Circle
28. Front Line Circle
29. Hinge Shaft
30. Frontline
31. Transport Eyebolt
32. Electric Motor

Figure 1 (General View)

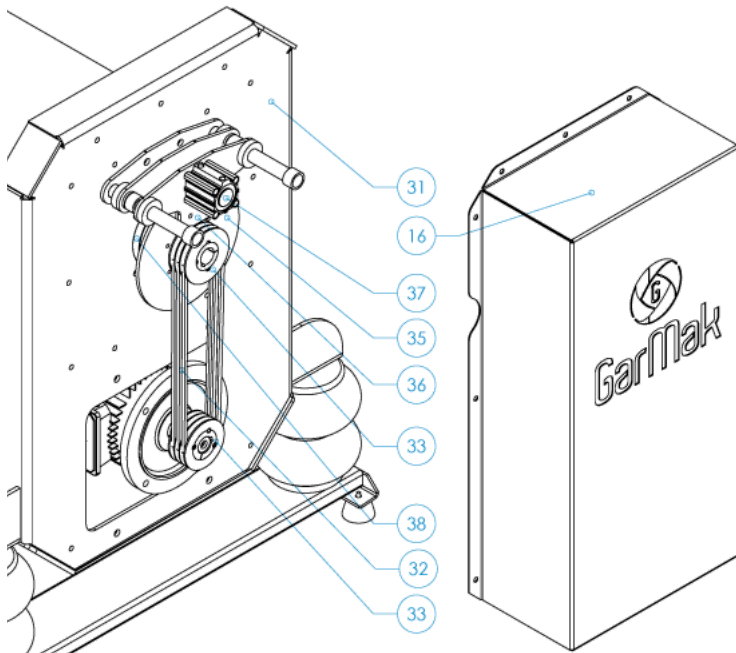


Figure 2 (Inside Back Cover)

- 31. Back Front
- 32. V-Belt
- 33. Engine Pulley
- 34. Drum Pulley
- 35. brake disc
- 36. Brake Pad
- 37. Brake Cylinder
- 38. Back Ball
- 39. Outer Ball Seal
- 40. Outer Ball
- 41. Inner Ball
- 42. Cover Shaft
- 43. Inner Ball Seal
- 44. brake shaft
- 45. Brake Pad
- 46. Brake Pad Flange
- 47. Horoscope
- 48. Pulley Setsdry

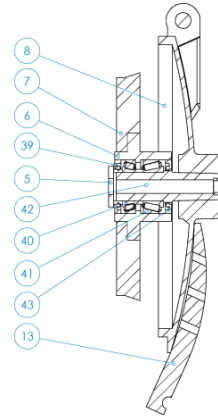


Figure 3 (Front Cover Cutaway)

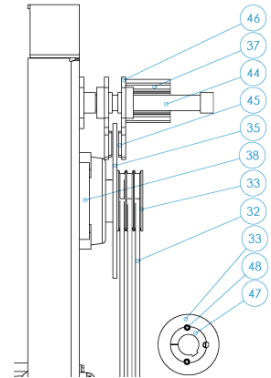


Figure 4 (Detail inside the back cover)

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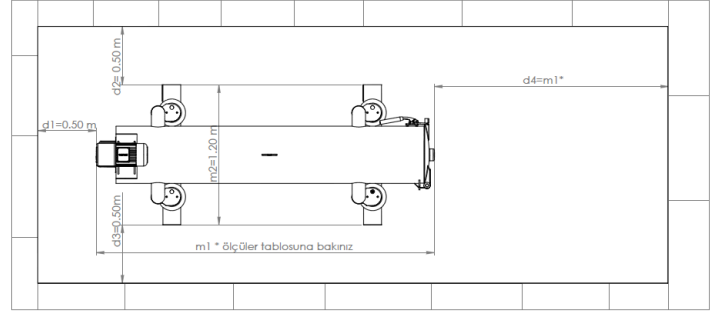
Product Code	G1427	G1432	G1435	G1442
Usage Width	270 cm	320 cm	350 cm	420 cm
Material	galvanized	galvanized	galvanized	galvanized
Inner print	397 mm	477 mm	477 mm	477 mm
Drum Speed	1420 RPM	1000 RPM	1000 RPM	1000 RPM
Engine Power	5.5 kw/s	5.5 kw/s	7.5 kw/s	10 kw/s
Electricity Consumption	2.0 kw/s	2.0 kw/s	2.5 kw/s	3 kw/s
Electrical Supply*	3 Do - 380 Volt - 50 Hz	4 Do - 380 Volt - 50 Hz	5 Do - 380 Volt - 50 Hz	6 Do - 380 Volt - 50 Hz
Control Panel	Buton Panel	Buton Panel	Buton Panel	Buton Panel
Working Time	90 sn	90 sn	90 sn	90 sn
Brake System	√	√	√	√
Speed Control	√	√	√	√
Soft Takeoff	√	√	√	√
Capacity	270x1000cm	320x1200cm	350x1200cm	420x1200cm
Certificate	CE, GOST-R	CE, GOST-R	CE, GOST-R	CE, GOST-R
Guarantee	1 Year	1 Year	1 Year	1 Year
In	125 cm	125 cm	125 cm	125 cm
Height	140 cm	140 cm	140 cm	140 cm
Boy	320 cm	370 cm	420 cm	490 cm
Weight	850 kg	900 kg	1050 kg	1200 kg
Accessories	Carpet Transfer trolley	Carpet Transfer trolley	Carpet Transfer trolley	Carpet Transfer trolley

*60 Hz can be produced optionally.
 - Production is made in special sizes.
 - Galvanized machines are galvanized in hot galvanization pools.

4. PLACEMENT

GarMak carpet wringing machines viinch 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 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. In areas where the height of the machine does not fit, the height can be reduced by reducing the bellows air pressure. Position the machine relative to other washing apparatus as follows. The juicer cannot be installed outdoors, even if it is protected; exposure to wind and rain is detrimental to the life of the machine.



Şekil 5 (İdeal Makine Yerleşim Ölçüleri)

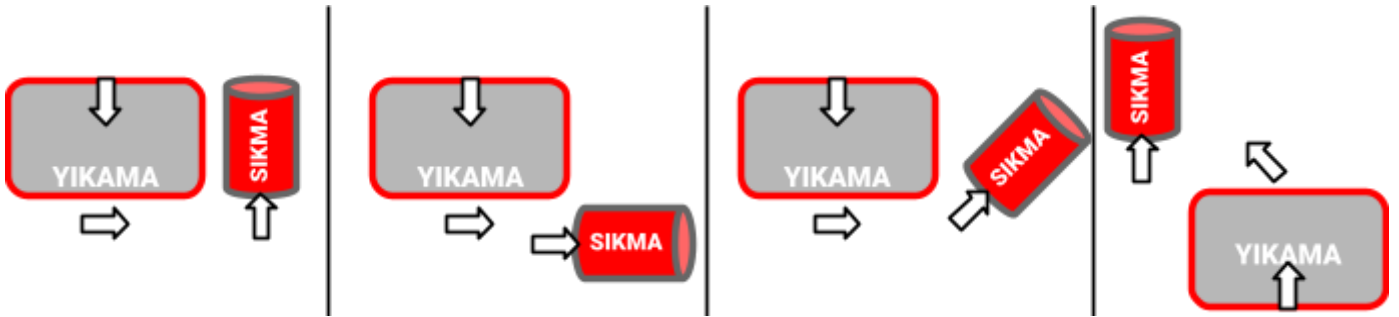


Figure 6 (Machine Positioning Diagram)

5. WORKFLOW CHART

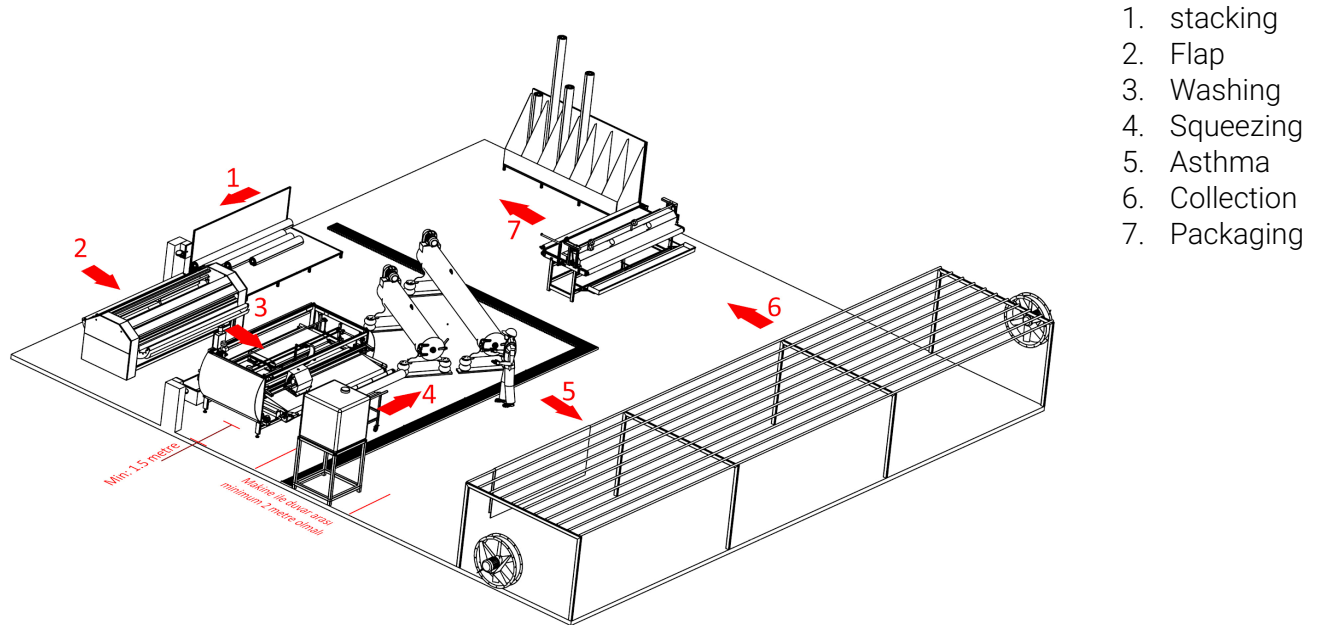


Figure 7 (Ideal Workflow Diagram)

6. INSTALLATION

The plug of the installed juicer 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 the juicer. Otherwise, replace the plug or socket.
1. You must press the EMERGENCY STOP button before starting any operation on the machine.
 2. The machine should be installed on a flat ground (if not possible, with a slope of at most 3%).
 3. If the place where the machine will be placed is clear, you can lower it to that area by attaching its wedges.
 4. The electrical panel should be mounted on an easily accessible wall while operating, with a height of 160 cm from the ground. It should never be mounted on the machine body.
 5. 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 60 amperes.
 6. The air compressor must be capable of providing at least 8 bar pressure, and a minimum of 100 liters of compressor must be selected for comfortable use.
 7. Connect the air compressor to the machine using an 8 mm air hose.
 8. Before the first start-up, the inner drum of the machine should be cleaned with a chemical that has degreasing properties.

7. OPERATING THE MACHINE

1. Attention! The front cover can be opened quickly when compressed air is connected to the machine. For this reason, when the machine is first started or the air device is turned off and on, the cover will move quickly. Do not stand in the movement area of the front cover.
2. When the electrical and air system is provided to the machine correctly, the emergency stop button should be turned and opened, the locking / unlocking button should be turned and the cover should be in the open position.
3. The direction of carpet wrapping is very important. The last layer of the carpet should be facing clockwise, and both ends should be wrapped properly.
4. The carpet should be wrapped and placed in the machine as shown in the figure above.
5. The carpet should be pushed 5 cm away from the front of the drum and closed with the cover locking button.
6. When the door is fully closed, the start button gives a green signal. The machine is started by pressing the start button along with the signal.
7. After the preset time of 90 seconds, the machine stops by braking automatically.
8. When the stopping process is completed, the start button gives a green signal again.
9. When the stopping process is completed, the lid is opened by turning the automatic on-off button.
10. The carpet is rotated through the drum and pulled back.

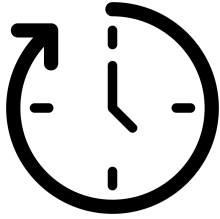


Figure 8 (Motor Rotation)

THE INNER DRUM SHOULD ROTATE CLOCKWISE WHEN VIEWED FROM THE FRONT COVER SIDE. THE CARPET SHOULD BE INSERTED INTO THE MACHINE AS SHOWN.

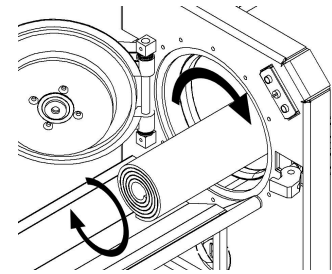


Figure 9 (Carpet Wrapping Direction)

8. MAINTENANCE

Gar-Mak industrial carpet squeezing machine is produced with high performance and quality to be used for many years. In order for the carpet extractor 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. Every fifteen days, the rear bearing should be lubricated with yellow grease No. 2.
2. Every fifteen days, the front door hinge and the hinges on the locking mechanism should be lubricated with spray grease.
3. The pneumatic lubrication regulator level should be checked and filled if empty.
4. The pneumatic cleaning filter level should be checked, and if it is full of water, it should be emptied by pressing the latch underneath.
5. Any loosening caused by vibration should be checked and tightened.
6. The pressure of the blowers should be set to a maximum of 6 bar. Sharp-edged tools should not be inserted into the bellows.
7. V-belts located under the rear cover of the juicer should be replaced at least once a year, depending on the amount of use. Belt replacement can be done by loosening it from the engine tension rail and using a crowbar. For details, you can request a video from the service personnel.

8. The inner and outer balls on the front cover should be replaced at least once every 2 years, depending on the duration of use. Replacement of front cover balls must be done by GarMak service personnel.
9. The rear ball should be replaced once a year, depending on the duration of use. To replace the rear ball bearing, the rear housing cover, brake assembly, v-belts and pulleys are removed respectively. You can request a video on the subject from GarMak service personnel.
10. Electrical circuits should be checked regularly and 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.
11. For easier use of the door lock mechanism, the moving parts of the lock mechanism should be lubricated with machine oil or spray grease every week.

9. FAULTS SOLUTIONS

1. Door lock / unlock button does not work.

- 1.1. Check that the compressed air connections are made correctly.
- 1.2. Check that the adjustment latches of the pneumatic cylinders are open.
- 1.3. Check the pressure adjustment valve on the pneumatic lubrication regulator and bring the pressure above 8 bar.
- 1.4. If the door locking / unlocking button is defective, replace it with a new one.

2. Machine start button does not work.

- 2.1. The cover may not be closed completely. Try turning it on and off again.
- 2.2. The black magnetic sensors on the door lock cylinder may have become loose or displaced. Contact our teams and fix the sensor in place.
- 2.3. Have the electrical connection checked by an electrician.

3. There is excessive shaking during the first start-up.

- 3.1. Carpet wrapping direction is wrong. Adjust clockwise. See Figure 6.
- 3.2. Motor rotation direction is wrong. Adjust clockwise. See Figures 5 and 6.
- 3.3. There may be a different part inside the inner drum. Check and remove.
- 3.4. If there is a curvature in the inner drum, report the situation to the GarMak service representative.

4. When I start the machine, there is a sound from the engine, but the machine does not start.

- 4.1. One of your phases may not be coming. Have your phases checked by an electrician.
- 4.2. Check the contactors or motor protection switches on the main panel.
- 4.3. There may be a break in the cables. Have your wiring checked by an electrician.
- 4.4. The engine may have burned out. Replace it with a new one.

5. The machine is excessively noisy.

Carpet wringing machines may make disturbing noises during starting and braking. However, if there is a high level of noise during the spinning period;

- 5.1. When wrapping the carpet, pay attention to its direction and that both ends are straight. Carpets wrapped crookedly, such as cones, cause imbalance and noise in the drum.

- 5.2. It indicates an error in the machine ball system. It is necessary to check the machine balls and replace the broken ones with new ones. There are 3 balls connected to the inner drum in the machine.
- 5.3. Noise during operation may be caused by loosening of the cover part. Contact GarMak service representatives and check the looseness together and fix it.
- 5.4. There may be a gap between the cover and the outer drum. Contact GarMak service personnel to pick up the slack.
- 5.5. There may be a gap between the chestamid cover and the inner drum. Contact GarMak service personnel to pick up the slack.
- 5.6. There may be curvature in the inner drum of the machine. Contact GarMak service personnel and have the drum calibrated.

6. The machine does not tighten the carpet enough.

Some carpets are subjected to gluing process after production. Carpets with glued back surfaces should be squeezed in the wringer for a long time. If water remains on the carpet in all carpet types;

- 6.1. Check the rotation of the motor. If it does not turn, follow the solutions in items 2 and 4.
- 6.2. The drain pipe may be clogged. Check and remove the blockage.
- 6.3. The machine's v-belts may have become loose. Tighten the belts from the tension rail.
- 6.4. The machine pulley set screw connection may have become loose. Check and tighten it into place.
- 6.5. The bushing may be broken. Install the new one.

7. The machine bellows are deflating.

The bellows pressure of carpet wringing machines should be between 4 and 8 bars. Bellows below this value cannot maintain their form and do not dampen the vibration in the machine. If the deflated bellows deflate regularly;

- 7.1. Check the bellows valves with foamy water, remove the leaking valve, wrap it in Teflon and tighten it again.
- 7.2. Check other parts of the blower and identify the place where air is leaking. If the problem is caused by the bellows, replace it with a new one.
- 7.3. Regularly inflate the bellows, which lose air during seasonal transitions.

10. WARRANTY SCOPE

1. Machines that have not been installed, have not been trained, and whose warranty certificate has not been signed are out of warranty.
2. Expiration of the stated warranty period.
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. Malfunctions caused by connecting inappropriate compressors to the machine.
13. Installation, maintenance and location changes without the knowledge of Gar-Mak officials.
14. The workplace, ground and environment where the product is placed are not suitable for operating machinery.
15. All problems that may arise as a result of the use of unhealthy personnel (staff addicted to alcohol, drugs and similar stimulants).
16. Malfunctions that may occur as a result of improper layout of the machine.
17. Problems that may occur as a result of using tools and equipment that are not suitable for the machine.
18. 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.
19. Electric motors and malfunctions that may arise from electrical problems.
20. Failures that may occur as a result of the machine not being lubricated in sufficient amounts where it needs to be lubricated.
21. 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 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 inserting two or more carpets on top of each other into the machine and 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 Makine Ltd Şti. 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> 