



WARNING

Read and follow all instructions in this manual before operating the Hammer Mill. Please keep this manual stowed inside the manual tube guard for quick access to information.

Read it thoroughly and make sure to understand the operating, maintenance and security indications.

Failure to follow these indications can result in serious injury to yourself and others.

THANK YOU!

We thank you for purchasing the RHYS-THOMAS Hammer Mill. We work hard to bring you a different mill that meets the requirements set by customers like you. Our mill stands out from the rest, due to its simplified and effective mechanism that it offers, improving the productivity of the grinding by obtaining the best results at your convenience. We are convinced that this hammer mill meets the highest expectations for the work for which it was designed.

We want you to have a great experience with your CHMM milling machine, so read carefully and follow all instructions in this manual before operating the mill. This manual tells you how to assemble, configure, operate, and maintain this machine easily and safely. Be sure to follow all recommended safety measures and instruct any other person to operate this hammer mill. Failure to do so could cause serious personal injury to operators and others. All information in this manual refers to the latest product information available at the time of printing. It is recommended that you review the manual frequently to familiarize yourself with The unit, its operation, and its features.

We are continually updating and improving our equipment through our continuous improvement program (more than a program, it is our philosophy). This cycle begins with your feedback, so if you have a problem, doubt or do not find any information in this manual, do not hesitate to contact us.

Your hammer mill is equipped with an electric motor; the motor manufacturer is responsible for all matters related to performance, output power, specifications, warranty and maintenance information for it. However, for any motor related questions, we will be more than happy to assist you, just ask. For more information, read the Owner / Operator Manual provided by the motor manufacturer. This is shipped in a separate package, along with this unit.

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Index

■ Important Safety Measures -----	3
■ Security measures -----	5
■ Equipment Installation -----	6
■ Equipment operation -----	9
■ Spare parts and equipment list -----	10
■ Measures to take for a stop -----	11
■ Maintenance-----	12

Product registration

Before assembling and using your new RHYS-THOMAS hammer mill, locate the information plate on the unit and record the information in designed spaces below. The serial number plate is located on the bottom left of the mill. If you need to request technical assistance through our website, please call Customer Service, or a dealer / service dealer will require this information.

MODEL NUMBER _____
SERIAL NUMBER _____

Customer Support

In case you have issues assembling or operating this equipment or have any questions about its controls, operation or maintenance of the same, you can request assistance from us. You can contact us through the following information detailed below::

RHYS-THOMAS

Website: **www.rhysthomas.co**

Mailing Address: 1925 NW 21st Terrace. Miami, FL 33142

Phone: 305-677-3029

Email: **sales@rhysthomas.co**

Important security measures

This mill is designed to be used in accordance with the safety standards contained in this manual. As with any type of motorized equipment, an error or negligence in the operator's part can cause serious injury.

In the event of any emergency, attempt to turn off the motor and seek immediate help.



The presence of this symbol indicated that it is a piece of important safety information to follow to avoid jeopardizing your personal safety and others. Read and understand all instructions in this manual before using this mill.

**When you see this symbol
Keep Warnings in MIND.**

Symbol Identification

It is important that you understand all the safety symbols displayed on the machine. These denote specific understanding of the different safety requirements you must comply with as well as specific safety instructions that will ensure a safe operation of the Hammer Mill.

Consult Technical Manual



It is very important to read the manual of this user manual before operating the hammer mill, and during its operation, so this sticker advises the user to read the manual before and during operation to resolve doubts about the operation of this mill.



Moving Parts Can Crush and Cut

This Sticker indicates the danger implied by opening the front access cover the door of the mill while it is running because the hammers can amputate or cut any part of the hands exposed to it.



Caution Electrical Hazard

This sticker is located in the area next to the motor, it warns the operator of the risk associated with an electrified area of the machine that should not be approached, because ignoring it may cause a short circuit or physical damage to you.

Sticker based on ISO requirements.



Wear Eye Protection

It is important to wear protective glasses during the grinding process, to prevent any material that is accidentally expelled from entering your eye.



Hearing Protection

This sticker indicates that it is recommended to use hearing protection, such as special ear muffs to avoid any hearing problem, while the hammer mill is running.



Wear Protective Gloves

The sticker indicates that protective gloves should be used to manipulate the hammer mill, to switch it on and off, as well as to prevent the hands from being exposed.

Safety measures

- 1.** Read, understand and comply with all instructions included in this manual and in the mill before assembling it and putting it into operation. Keep this manual stored for future consultations, as well as to order spare parts.
- 2.** Familiarize yourself with all controls. Please know how to stop the mill when it is working and how to manipulate the controls quickly in case of emergency.
- 3.** People over 16 must read and understand how it works as well as safety regulations.
- 4.** Do not allow anyone to operate this mill without receiving proper operation and safety instructions.
- 5.** Do not operate the mill in confined spaces.
- 6.** Wear the appropriate protective equipment in each operation. Avoid loose clothing.
- 7.** Do not put your hands near the moving parts or inside the feed. Hopper, as indicated on decals, when in operation. Be careful not to touch any surface that heats up during operation and remains as such for a period of time after the hammer mill shuts down.
- 8.** Stay away from the discharge of the ground product to avoid direct contact with it before it is removed.
- 9.** Do not operate the hammer mill without properly closing the mill door with the appropriate latches.
- 10.** Keep people away from the mill while it is running. Do not allow the presence of minors in the work area. Stop the machine if anyone unauthorized enters the area.
- 11.** Stop the motor and turn off breaker before performing maintenance on the mill.

Equipment Installation

NOTE: Mechanical and electromechanical installations must be carried out by professional personnel, with adequate competence, knowledgeable in the matter, the risks associated and their mitigation.

1. Define the exact place of installation, for this take into account the following measures:

- Space availability.
- Ventilation.
- Availability of electricity.
- Product feeding facilities.
- Evacuation facilities for processed products and by-products.
- Proper Illumination.
- Access for transport.
- Generation of noise, dust, air currents.
- Any concerning weather factor
- Floor plan and required anchoring to foundation

2. Before operation, the mill must be anchored to foundation.

3. Place the equipment in the prepared place or base and proceed to anchor it firmly. The masonry works carried out must have been done at least 15 days before to assemble the equipment, and 28 days to operate.

4. Whatever the means of anchorage, these must ensure the complete immobility of the equipment. In seed machines working by shaking vibrations, no operating parameter is guaranteed if the machine is not solidly anchored to a firm concrete floor. The oscillation of the base corners in these cases must be zero.

5. Proceed with the assembly of the components that could have been supplied independently, using bolts or other indicated fastening means.

6. Once the assembly is completed, use plumb lines and spirit levels to ensure that all equipment, groups, and items are lead-mounted and at level. If the supplied equipment has leveling screws, tighten them until the machine is at level; otherwise, adjust the level with wedges of different thickness.

VERIFY THAT THE POWER SOURCE IS CORRECT IN VOLTAGE, AMPERAGE, AND FREQUENCY

7. Electrical connections:

NOTE: All electrical connections must be carried out by a professional licensed electrician.

- To operate this mill you will need to have available a current breaker, and a motor starter to protect from overloads.
- Additionally, the limit switch must be connected and override mill operation in case of the front cover is opened while in operation.
- Once all connections are completed, make sure the motor rotation is correct.

8. Test the machine without load to verify that:

All the components are correctly assembled and the connections and parts properly done.

- The mill is rotating in the right direction without abnormal noises and/or vibrations.
- The mill is properly fixed to the floor.
- The starting and operating currents are well within the normal range of the motor.
- Star and stop sequence works correctly

Operation

PRINCIPLE OF OPERATION.

The seeds or materials are poured by mechanical or manual means into the inlet duct (see fig. 2), then the grains are crushed by the continuous impact that the hammers will exert on the product, until it is pulverized. The size of the particles will depend on the diameter of the holes in the screen.

Finally, the ground product passes through the screen and exit through the lower part of the machine due to the effect of gravity (see figs. 1 and 2), at this stage the product is collected and is ready to be packed or continue with its process.

STARTING SEQUENCE:

Check that all the equipment and its motor are in good mechanical condition and that the safety measures for the personnel involved in the operation are guaranteed.

- Start the machine without load.
- Gradually load the machine through the inlet duct (see fig. 2).
- You can change the size of the ground product by changing the screen for a different hole diameter.
- The load must be free of foreign objects that can damage the integrity of the equipment.
- No unusual vibrations, leaks or noise during operation must be permitted..

Spare parts and equipment list

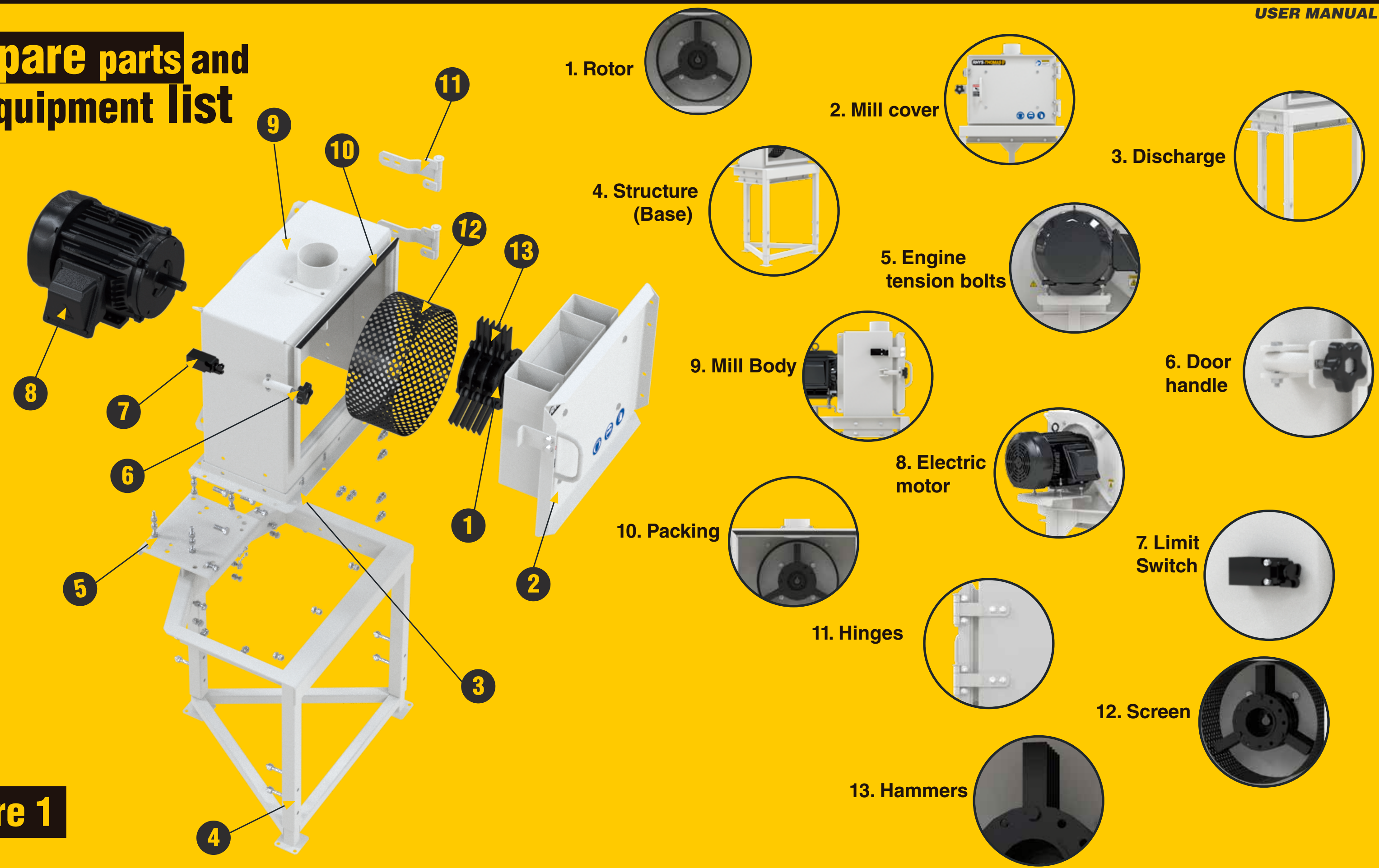


Figure 1

Emergency Stop Instructions

If for any emergency or unexpected event the equipment must be stopped during operation please follow the following steps for emergency shutdown

- Quickly stop motor.
- Evacuate all remaining material until the mill is empty on the inside
- Inspect and determine the cause of the abnormal operation of the mill. Check all rotating parts are moving freely and without damage.
- If no mechanical failures were to be found, cautiously start the machine and run in idle and without load. Pay attention to abnormal events that may show up such as strange noises and vibrations.
- If abnormal operation is encountered, stop the machine immediately for repair.

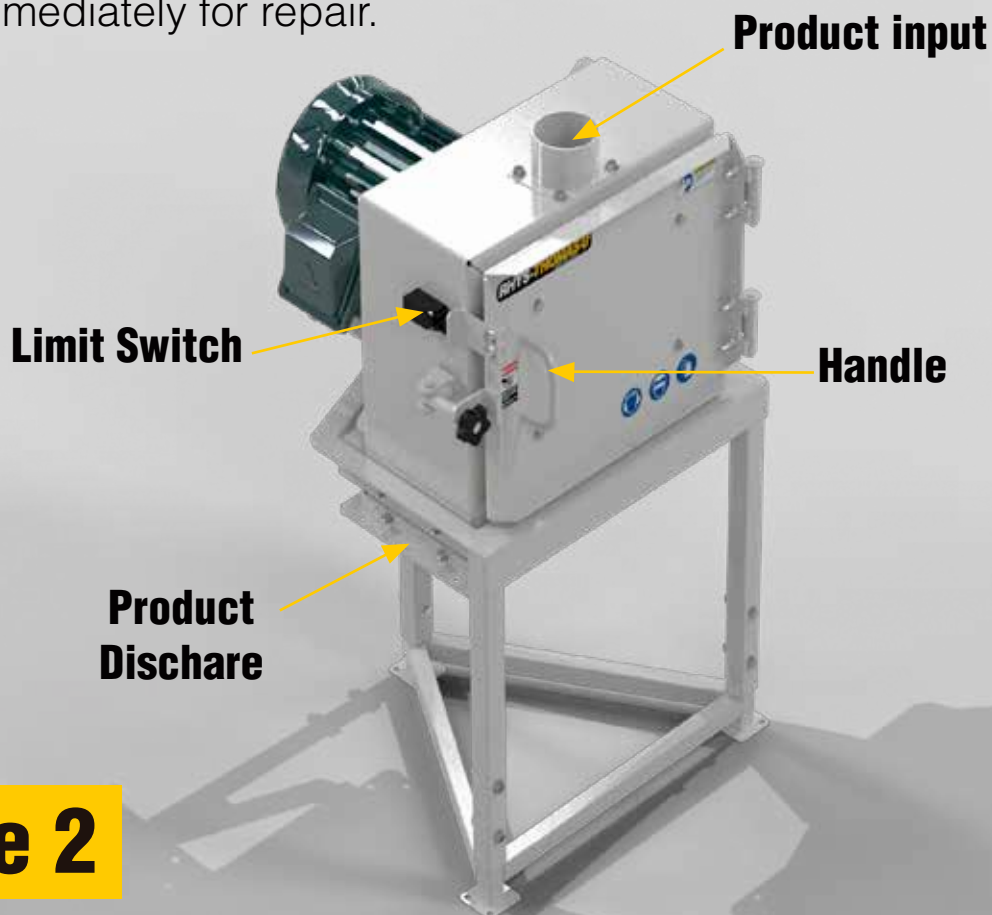


Figure 2

Maintenance

General Maintenance:

1. Keep the equipment clean.
2. Quickly inspect the machine before and after each operating cycle. Always pay attention to proper equipment operation routine and call off the operation in the event of an odd situation.
3. Always inspect the fastening components holding the blades. Re-tighten if needed.
4. Replace any part that is in contact with the material and is subjected to wear within adequate time intervals.
5. Clean and inspect electrical parts and systems.
6. All third party components such as motor and electrical components have their own specific operation and maintenance instructions.