



MS-100S

HDD & SSD Hammer Mill Shredder

User Manual vA.01



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Product Disclaimer

U-Reach is not accountable for any incidental or consequential damages, which includes, but is not constrained to property harm, loss of time or data from use of a U-Reach product, or any other damages attributable to product malfunction or failure (including without limitation, those attributable to: (1) reliance of the materials provided, (2) costs of product replacement, (3) loss of use, data or profits, (4) delays or business interruptions, (5) and any principle of legal responsibility, arising out of or in reference to the use or overall performance or from delays in servicing or lack of ability to render service) of any U-Reach product. U-Reach makes every effort to ensure proper operation of all products. However, the customer is responsible to affirm that out of the U-Reach product meets the customer's quality requirement. The customer further acknowledges that fallacious operation of U-Reach product and/or software program, or hardware issues, can cause loss of data, defective formatting, or data loading. U-Reach will make efforts to resolve or repair any issues recognized by customer either within the warranty period or on a time and materials basis.

Specifications and features subject to change without notice or obligation.

Warranty

U-Reach provides a basic one-year parts and labor warranty for all of its products (excluding cables, adapters, and other consumable items). Telephone and email support is available for the life of the product as defined by U-Reach.

All warranties will be restricted and defined by the market region from which customers purchased.

Please note that within the warranty period, claims arising from accidents due to negligence, inappropriate handling, and consumable parts that need regular replacement are not covered by the warranty. In addition, we will not compensate for any indirect damage.

Piracy Statement

U-Reach accepts no responsibility for copyright infringement or misuse of any U-Reach equipment. Copying all forms of data: audio, video, or software without the permission of the copyright holder is illegal. It is the sole responsibility of the user to ensure that the legal copyrights of the copyright owners are respected.

IMPORTANT SAFETY INFORMATION

The precautions described in this manual are classified according to the degree and content of the danger as shown below. Review this user manual and all safety instructions before attempting to operate the MS-100S.



WARNING: Failure to comply will result in **Death** or **Serious Injury**.



CAUTION: Failure to comply will result in **Injury** or **Material Damage**.

- **Serious Injury** refers to cases that result in after-effects such as Loss of Eyesight, Injuries, Burns (high and low temp), Electric Shock, Fractures, Addiction, and those that require hospitalization or long-term outpatient treatment.
- **Injury** refers to Injuries, Burns, and Electric Shock that do not require hospitalization or long-term outpatient treatment.
- **Material Damage** refers to extended damage with houses, household goods, livestock, and pets.

•Safety Symbols Samples



△signs indicates Warnings and Cautions.

Specific warning and caution are indicated by pictures inside the △.

KEEP AWAY FROM
ROTARY OBJECT



○ signs indicate Prohibited Acts.

Specific prohibited contents are indicated by pictures inside the ○.

DO NOT
DISASSEMBLE



● signs indicate Things You Must Do and Actions to be Enforced.

Specific contexts are indicated by pictures inside the ●.

UNPLUG

INTRODUCTION

- ◇ Please understand that we will NOT be held responsible for any accidents or mechanical failures due to incidents caused by operation as stated below.
 - In the case of incorrect operation.
 - In the case of processing non-compatible media (hereinafter referred to as “Incompatible materials”).
 - In the case of operations exceeding the specifications and inappropriate maintenance methods.
 - In the case of use with modifications by customer.
 - In the case of Natural Disasters, Fires, and Acts of God.
 - In the case of other external reasons.
- ◇ If you have any questions about the machinery or the user manual, please contact U-Reach Data Solutions Inc. at (909)628-7030 or e-mail us at sales@ureach-usa.com.
- ◇ Due to improvements, specifications, appearance, information may be subject to change without prior notice. Please be advised of this in advance.
- ◇ When WARNING label stickers are peeling off, please contact U-Reach Data Solutions Inc. at (909)628-7030 or e-mail us at sales@ureach-usa.com immediately to exchange warning labels for new ones.
- ◇ This machine has a built-in dust collector. For information regarding the correct handling of the dust collector, be sure to read the full maintenance instruction manual

FOR YOUR SAFETY OF OPERATION

Before using the MS-100S, please read carefully and understand the following Warnings and Cautions outlined.

 WARNING	
 KEEP AWAY FROM ROTARY OBJECT	▪ Keep your fingers and wooden sticks away from the slot, discharge port and inside of the machine except during maintenance. ⇒ There are hammers, blades, and an electrical motor inside, which may cause injury or an unexpected accident.
 WARNING EXPLOSIVE MATERIALS	▪ Do not crush following materials: ▪ Batteries and items with built-in batteries. Battery packs for Mobile phones, Portable Music Players with built-in batteries, etc. ▪ Materials containing explosive substances. Aluminum, Magnesium, Titanium, Epoxy, Organic Solvents, etc. ※ This does not apply to recording medias that are assumed to be processed by this unit. ▪ Materials containing flammable substances for example: Gasoline, Thinner, Benzene, Kerosene, Paint, etc. ▪ Sparks caused by, but not limited to: Cigarette butts and Ash etc. ▪ Sticky substances that make cause mechanical failure: Water-Soluble Mist, Oil Mist etc. ▪ Others Materials containing liquid such as Water, Oil, and Chemicals. ⇒ There is a risk of ignition or explosion.
 WARNING EXPLOSIVE MATERIALS	▪ Do not operate the machine inside or near locations where mist, smoke (or fumes), or gas from flammable, explosive, or corrosive substances are present. ⇒ There is a risk of ignition or explosion.

WARNING



KEEP AWAY FROM
SMALL CHILDREN

- Keep away from infants and children having access to the machine.
⇒ There are hammers and blades inside, which may cause an unexpected accident.
- Do not allow children to operate alone, or keep within reach of infants
⇒ There is a risk of burns, electrical shock or injury.



NO OFF-RATING
VOLTAGE

- Do not use the product at voltages other than those specified in this manual. Additionally, do not use extension cords or power strips.
⇒ There is a risk of fire or electrical shock.



NO WET HANDS

- Do not touch the machine with wet hands.
⇒ There is a risk of electrical shock.



PROHIBITED

- Do not damage or cut the power cord.
⇒ Placing heavy objects on the power cord, pulling it, or bending it forcibly may damage the power cord which may lead to a risk of fire or electrical shock.



DO NOT
DISASSEMBLE

- Do not modify this machine.
⇒ There is a risk of an accident, fire, or electrical shock.
- Maintenance and maintenance work should only be performed by people who have been instructed in the correct parameters.
⇒ There is a risk of injury due to ignition or abnormal operation.



GROUND
CONNECTION

- Connecting the ground wire.
⇒ If the earth wire is not connected and leakage of current occurs, there is a risk of fire or electrical shock, also static electricity may cause equipment failure or malfunction.



ACTION
INSTRUCTION

- If the machine generates heat, emits smoke or emits an offensive odor, take the following actions:
- Immediately turn off the main power of the machine and unplug the power cord from the power source.
- Contact the manufacturer (or maintenance or service company).
⇒ There is a risk of fire or electrical shock if used as is.



WARNING



ACTION
INSTRUCTION

- If water or liquid gets inside the machine, take the following actions.
 - Immediately turn off the main power to the machine and unplug the power cord from the power source.
 - Contact the manufacturer (or maintenance or service company).
- ⇒ There is a risk of fire or electrical shock if used as it is.



ACTION
INSTRUCTION

- If the event of a fire or explosion, take the following actions:
 - Immediately turn off the main power of the machine and unplug the power cord from the power source.
 - Use suitable extinguishing agents.
 - Do not open the door until the fire is extinguished and the internal temperature has dropped to room temperature.
 - Contact the manufacturer (or maintenance or service company).
- ⇒ There is a risk of fire or electrical shock if used as it is.



HOLD THE PLUG
AND PULL OUT

- When unplugging the power cord, be sure to hold the plug (not the cord) and unplug it.
- ⇒ There is a risk of electrical shock.



ACTION
INSTRUCTION

- Clean the inside and outside of the machine regularly to prevent dust from accumulating.
- ⇒ There is a risk of fire when an ignition source enters, there is also a risk of unexpected accidents such as corrosion of internal components of the machine.



CAUTION



NOT TO PINCH
YOUR FINGER

- Be careful not to get your fingers caught in the slot cover.
- ⇒ There is a risk of a pinch or crush injury.



ATTENTION

- During maintenance, use protective equipment (gloves, goggles, protective clothing) and also turn off the power supply source, the machine breaker, and the main power supply. Disconnect the power cord from the power supply source.
- ⇒ There is a risk of injury or electrical shock.

CAUTION


ACTION
INSTRUCTION

- If abnormal noise, smoke, abnormal vibration, overheating, or strange odor occurs during operation, immediately turn off the main power of this machine and disconnect the power plug from the power outlet.

⇒ Continuing to use the product may result in malfunction, electrical shock or fire.



UNPLUG

- Be sure to disconnect the power plug from the power outlet before moving this machine.

⇒ The power cord may be damaged, causing fire or electrical shock.



UNPLUG

- When the operation is completed, turn off the machine's main power. Additionally, when not in use for a long time, disconnect the power plug from the outlet.

⇒ The power cord may be damaged, causing fire or electrical shock.



PROHIBITED

- Ensure any objects do not enter the feed slot such as Hair, Neckties, Necklaces, Sleeves of clothing, Bracelets, and Watch chains etc.

⇒ It can be drawn in the feeder and cause injury.



PROHIBITED

- Do not locate in a humid or dusty place. Also, do not place containers filled with water, such as vases, flowerpots, and glasses, on top of the machine at any time.

⇒ There is a risk of fire or electrical shock.



PROHIBITED

- Do not place media that are not intended for processing near the slot.

⇒ There is a risk of mishandling and damaged media.



PROHIBITED

- Do not locate on an unstable level, such as on an uneven floor or on an unsteady surface. You can affix the machine by attachment of the adjuster bolt.

⇒ It can lead to falls, tipping, and other accidents that may cause injury.

CAUTION


PROHIBITED

- Do not sit on or place objects on this machine.

⇒ It may cause you to fall, resulting in injury.



PROHIBITED

- Do not attempt to process iron plates, metal objects, adhesive tape, vinyl, rubber, or thick paper such as journals or slips.
- ⇒ It may cause damage to the machine.

PROHIBITED MATTERS

(1) DO NOT HANDLE INCOMPATIBLE PRODUCTS.

If processing incompatible products they may damage the machine and cause malfunctions or accidents. For a list of incompatible products, please contact us at 909-628-7030 or e-mail us at sales@ureach-usa.com.

(2) DO NOT INSERT MEDIA BEFORE THE MACHINE STARTS OPERATING.

After pressing the RUN button (see page 12, operation board ③), allow sufficient time for the motor to reach the normal rotation speed. During this time, STOP FEEDING lamp (see page 12, operation board ⑩) will light up, so wait until STOP FEEDING lamp goes out before starting to insert the media. If the machine is operated with media or grinding waste remaining in the crushing chamber, the machine will not be able to start properly and may cause malfunction. Be sure to inspect the inside of the crushing chamber before operation.

(3) PLEASE DO NOT FORCE THE OPERATION.

Understand the roles of the various buttons and lamps on the operation board (see page 12, operation board), and keep in mind proper operation.

Incorrect operation may cause failures or accidents. In particular, avoid switching the RUN button and OFF button (see page 12, operation board ③ and ④) continuously. This may cause the machine to malfunction.

(4) DO NOT LOAD EXCESSIVE AMOUNTS FOR PROCESSING.

Do not insert a large amount of media at one time. Always check that the STOP FEEDING lamp is not lit before insert the media to be processed.

(5) DO NOT INSERT MATERIALS FORCIBLY.

Do not attempt to force in material size that is larger than the feed slot.

EQUIPMENT PART NAMES

(1) EXTERIOR



NO.	NAME	FUNCTION
①	FEED SLOT	Feed materials into the crusher from this slot.
②	OPERATION BOARD	Operation for running switches and various lamps. ※See page 12
③	TRASH BOX DOOR	Open when removing the trash box (crushed debris disposal basket).
④	DUST COLLECTOR DOOR	Open when the dust collector maintenance is required. For correct handling of the dust collector, be sure to read the attached dust collector instruction manual first.
⑤	MAINTENANCE DOOR	Open when performing maintenance.
⑥	HAMMER ROTATING SPEED CONTROL BOX	Serves to adjust the surface speed of the hammers. ※See page 22

(2) OPERATION BOARD



NO.	NAME	FUNCTION
①	EMERGENCY STOP	Pressing this button in an emergency will force the machine to stop.
②	HOUR METER	Displays machines operational driving time.
③	RUN	The button to start operation (lights up when operating).
④	OFF	The button to stop operation (lights up when stopped).
⑤	TRASH BOX FULL	Lights up when the trash box is full. ※ When the TRASH BOX FULL lamp lights up, the machine will automatically stop. To operate the machine again, remove the crushed waste from the trash box.
⑥	CLOSE DOORS	Lights up when the trash box door, the dust collector door, and the maintenance door are open. When this lamp lights up, the machine will not operate even if you press the RUN button.
⑦	MAIN POWER	This is the main power supply. It is a master key type switch. The lamp on the top will light up when the main power is turned on.
⑧	BREAKER	Circuit breaker. When the breaker is turned on, the lamp at the top lights up.
⑨	OVERLOAD	When the machine detects an excessive load, this lamp lights up and the machine automatically stops operation.
⑩	STOP FEEDING	Do not insert media while this lamp is lit.

PREPARATION OF OPERATION

Before preparing for operation, please read and understand the following Warnings and Cautions.

 WARNING	
 NO OFF-RATING VOLTAGE	Do not use the product at voltages other than those specified in this manual. Additionally, do not use extension cords or power strips. ⇒ There is a risk of fire or electrical shock.
 NO WET HANDS	Do not touch the machine with wet hands. ⇒ There is a risk of electrical shock.
 PROHIBITED	Do not damage or cut the power cord. ⇒ Placing heavy objects on the power cord, pulling it, or bending it forcibly may damage the power cord which may lead to a risk of fire, or electrical shock.
 DO NOT DISASSEMBLE	- Do not modify this machine. ⇒ There is a risk of an accident, fire, or electrical shock. - Maintenance and maintenance work should only be performed by persons having been instructed in the correct parameters. ⇒ There is a risk of injury due to ignition or abnormal operation.
 GROUND CONNECTION	Connecting the ground wire. ⇒ If the earth wire is not connected and leakage of current occurs, there is a risk of fire, or electrical shock, also static electricity may cause equipment failure or malfunction.
 HOLD THE PLUG AND PULL OUT	When unplugging the power cord, be sure to hold the plug (not the cord) and unplug it. ⇒ There is a risk of electrical shock.

 CAUTION	
 ATTENTION	▪ During maintenance, use protective equipment (gloves, goggles, protective clothing) and also turn off the power supply source, the machine breaker, and the main power supply. Disconnect the power cord from the power supply source. ⇒ There is a risk of injury or electrical shock.

◆ PRECAUTIONS FOR INSTALLATION

Please install the MS-100S within the following parameters. Failure to do so may cause the machine to malfunction, lose its performance, and/or cause an accident.

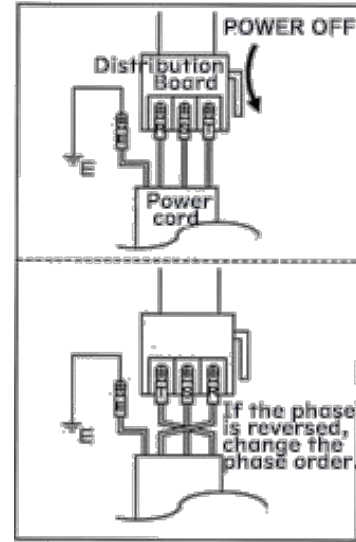
- Install the machine indoors where it will not be exposed to rainwater or moisture.
- Install it in a place where it will not be exposed to strong vibrations or shocks.
- Place it on a flat surface, lock the casters with the stoppers, and secure them with the adjuster bolts.
- The power supply is a 3-phase 230V specification. Do not use other voltages.
- For safety, installers should wear protective equipment such as gloves and safety shoes.
- To prevent electrical shock, be sure to connect the ground wire of the power cord to the ground. Please confirm that the ground must meet the condition of a grounding resistance value of 100Ω or less.

◆ POWER AND GROUND CONNECTIONS

MS-100S has a 3-phase 230V specification.

✕ The installation, connection of power cord, and grounding should always be carried out by personnel who have obtained professional electrician qualifications.

- ① Check the specifications of the power supply you are trying to connect to are 3-phase 230V.
- ② To prevent electrical shock, turn off the power supply source and the machine BREAKER before installation (see page 12, operation board ⑧).
- ③ Out of four power cords, connect the ground wire (green) terminal to the ground terminal on the power distribution board. Please ensure that the ground has a resistance value of 100Ω or less and is properly grounded.
- ④ Securely screw the terminals of the power cord (R, S, T) other than the ground wire to the terminal block of the power supply source.
- ⑤ Check the above ① to ④ again, turn on the power supply source and the BREAKER (see page 12, operation board ⑧) of this machine, and turn on the lamp above the BREAKER. Make sure it lights up.
- ⑥ Open the DUST COLLECTOR DOOR (see page 11, exterior ④) and check the dust collector's pilot lamp (see photo below). Turn on the machine's breaker and check whether the power lamp on the dust collector is lit or flashing. If it is lit, the 3-phase power supply is in positive phase.



※If the power lamp on the dust collector flashes at a 1-second cycle, the 3-phase power supply is in reverse phase. **If you operate the machine with the phase reversed, the hammer will rotate in the opposite direction to the normal rotation direction, which may lead to an accident.** Turn off the power supply source and the breaker of this machine, and change the phase order of R and T.



OPERATION

Before operating the MS-100S, ensure you have fully read and understand the following Warnings and Cautions.

 WARNING	
 KEEP AWAY FROM ROTARY OBJECT	▪ Keep your fingers and wooden sticks away from the slot, discharge port and inside of the machine except during maintenance. ⇒ There are hammers, blades, and an electrical motor inside, which may cause injury or an unexpected accident.
 WARNING EXPLOSIVE MATERIALS	▪ Do not crush following materials: ▪ Batteries and items with built-in batteries. Battery packs for Mobile phones, Portable Music Players with built-in batteries, etc. ▪ Materials containing explosive substances. Aluminum, Magnesium, Titanium, Epoxy, Organic Solvents, etc. ✕ This does not apply to recording medias that are assumed to be processed by this unit. ▪ Materials containing flammable substances for example: Gasoline, Thinner, Benzene, Kerosene, Paint, etc. ▪ Sparks caused by, but not limited to: Cigarette butts and Ash etc. ▪ Sticky substances that make cause mechanical failure: Water-Soluble Mist, Oil Mist etc. ▪ Others Materials containing liquid such as Water, Oil, and Chemicals. ⇒ There is a risk of ignition or explosion.
 WARNING EXPLOSIVE MATERIALS	▪ Do not operate the machine inside or near locations where mist, smoke (or fumes), or gas from flammable, explosive, or corrosive substances are present. ⇒ There is a risk of ignition or explosion.

WARNING



KEEP AWAY FROM
SMALL CHILDREN

- Keep away from infants and children having access to the machine.
⇒ There are hammers and blades inside, which may cause an unexpected accident.
- Do not allow children to operate alone or keep within reach of Infants.
⇒ There is a risk of burns, electrical shock or injury.



ACTION
INSTRUCTION

- If the machine generates heat, emits smoke or emits an offensive odor, take the following actions:
- Immediately turn off the main power of the machine and unplug the power cord from the power source.
- Contact the manufacturer (or maintenance or service company).
⇒ There is a risk of fire or electrical shock if used it as is.



ACTION
INSTRUCTION

- If water or liquid gets inside the machine, take the following actions.
- Immediately turn off the main power to the machine and unplug the power cord from the power source.
- Contact the manufacturer (or maintenance or service company).
⇒ There is a risk of fire or electrical shock if used as it is.



ACTION
INSTRUCTION

- If the event of a fire or explosion, take the following actions:
- Immediately turn off the main power of the machine and unplug the power cord from the power source.
- Use suitable extinguishing agents.
- Do not open the door until the fire is extinguished and the internal temperature has dropped to room temperature.
- Contact the manufacturer (or maintenance or service company).
⇒ There is a risk of fire or electrical shock if used it as is.

CAUTION



NOT TO PINCH
YOUR FINGER

- Be careful not to get your fingers caught in the slot cover.
⇒ There is a risk of a pinch or crush injury.

 CAUTION	
 ATTENTION	▪ During maintenance, use protective equipment (gloves, goggles, protective clothing) and also turn off the power supply source, the machine breaker, and the main power supply. Disconnect the power cord from the power supply source. ⇒ There is a risk of injury or electrical shock.
 ACTION INSTRUCTION	▪ If abnormal noise, smoke, abnormal vibration, overheating, or strange odor occurs during operation, immediately turn off the main power of this machine and disconnect the power plug from the power outlet. ⇒ Continuing to use the product may result in malfunction, electrical shock or fire.
 PROHIBITED	▪ Ensure any objects do not enter the feed slot such as Hair, Neckties, Necklaces, Sleeves of clothing, Bracelets, or Watch chains etc. ⇒ It can be drawn in the feeder and cause injury.
 PROHIBITED	▪ Do not place media that are not intended for processing near the slot. ⇒ There is a risk of mishandling and damaged media.
 PROHIBITED	▪ Do not sit or place objects on this machine. ⇒ It may cause you to fall, resulting in injury.
 PROHIBITED	▪ Do not attempt to process iron plates, metal objects, adhesive tape, vinyl, rubber, or thick paper such as journals or slips. ⇒ It may cause damage to the machine.

◆ BASIC INSPECTION AND PRECAUTION BEFORE OPERATION

- Open the MAINTENANCE DOOR (see page 11, exterior ⑤) and check that there is no foreign matter or crushed waste remaining inside the crushing chamber. The hammers and the exit screen are installed correctly. After inspection, be sure to close the crushing chamber and the MAINTENANCE DOOR.

- Open the TRASH BOX DOOR (see page 11, exterior ③) and check that it is not full of crushed waste. After inspection, insert the trash box correctly and close it securely.
- Ensure to close both the maintenance door, and the trash box door.
- Connect the power cord to the power source (see page 14 Power and Ground Connections), turn on the power source, and connect the BREAKER (see page 12, operation board ⑧) to the machine and the MAIN POWER (see page 12, operation board ⑦). Check the lamps at the top of each unit (see page 12, operation board ⑦ and ⑧) light up.

※If a lamp does not light up, refer to ("8. Troubleshooting" on page 23).

- Ensure that the phase is not reversed (see ⑥ on page 15).
- Inspect the dust collector based on the instructions in the dust collector's instruction manual. After inspection, be sure to close the DUST COLLECTOR DOOR (see page 11, exterior ④).
- For your safety use leather work gloves only (avoid fibrous gloves such as cotton gloves, as the fibers run the risk of entanglement.) and safety goggles (included in standard toolbox supplied). Do not work wearing anything that can easily get caught in the feed slot, such as a tie, necklace, loose clothing, or long hair.

(1) *Powering on the Mighty Security*

Press the RUN button (see page 12, operation board ③).

The RUN button will illuminate and the machine will begin to operate. The dust collector operates in conjunction with this machine, so there is no need to press the RUN button on the dust collector.

※Before pressing the RUN button, be sure to confirm that the phase is not reversed (see ⑥ on page 15).

※Do not insert any media before the machine starts operating and reaches full operating speed (see Prohibited Matters on page 10).

※If normal operation does not begin even after pressing the RUN button, please refer to (see "8. Troubleshooting" on page 23).

(2) *Insert Media into the Feed Slot*

Insert media into the FEED SLOT (see page 11, exterior ①).

※Ensure to check the STOP FEEDING lamp (see page 12, operation board

⑩) is lit before adding media to be processed.

Ensure to wear the standard tools "safety goggles" whilst working.

(3) *Automatic Stop due to Full Detection*

When the trash box is full of crushed waste, the TRASH BOX FULL lamp (see page 12, operation board ⑤) and the STOP FEEDING lamp will illuminate, and **the machine will automatically stop after approximately 20 seconds**. The time lag between the full detection timing and the automatic stop is for the media remaining in the crushing chamber to be completely processed and discharged, **NEVER add additional media when the TRASH BOX FULL lamp is on.**

✕Even after the automatic stop, the hammer continues to rotate for a while due to inertia. DO NOT open the MAINTENANCE DOOR (see page 11, exterior ⑤) or the TRASH BOX DOOR (see page 11, exterior ③) until the hammer has completely stopped (the rotating sound has completely ceased).

To resume operation, please follow the steps below.

- ① Open the trash box door, take out the trash box, and remove the crushed waste.
- ② Store the trash box correctly and close the trash box door securely.
- ③ Confirm the TRASH BOX FULL lamp and the CLOSE DOORS lamp (see page 12, operation board ⑤ and ⑥) lights are out.

(4) *Automatic Stop due to Overload*

If an excessive load is applied to the motor, the OVERLOAD lamp (see page 12, operation board ⑨) will illuminate and the machine will stop automatically.

✕Even after the automatic stop, the hammer continues to rotate for a while due to inertia. Do not open the MAINTENANCE DOOR or the TRASH BOX DOOR until the hammer has completely stopped (the rotating sound has completely ceased).

To ensure safety, be sure to perform the following steps before restarting operation.

- ① Turn off the power source, the machine BREAKER (see page 12, operation board ⑧), and the MAIN POWER (see page 12, operation board ⑦), and disconnect the power cord from the power source.
- ② Open the MAINTENANCE DOOR (see page 11, exterior ⑤) and inspect the inside of the crushing chamber.

✕If there is any crushed debris entangled in the hammer or a shaft, remove it. If the hammer and the exit screen are damaged or deformed, replace them with

new ones.

- ③ If there is a strange odor coming from the motor ensure it is not deformed.
 - ④ Ensure to close the crushing chamber and the maintenance doors.
 - ⑤ Connect the power cord to the power source (see page 14 Power and Ground Connections), turn on the power source, the BREAKER, and the MAIN POWER (see page 12, operation board ⑦ and ⑧) of the machine. Ensure upper lamps illuminate.
- ※If a lamp does not illuminate, (see "8. Troubleshooting" on page 23).
- ⑥ Ensure that the phase is not reversed (see ⑥ on page 15).
 - ⑦ Press the RUN button.

(5) *Stop Operation*

When you press the OFF button (see page 12, operation board ④), the RUN button (see page 12, operation board ③) flashes for about 10 seconds, then the RUN button goes out and the OFF button illuminates. After that the machine will stop. The time lag between when you press the OFF button and when the machine actually stops is to allow the media remaining in the crushing chamber to be completely processed and discharged. **NEVER insert media while the TRASH BOX FULL lamp is on.**

The dust collector operates in conjunction with this machine, so there is no need to press the RUN button on the dust collector.

- ※Even after the OFF button (see page 12, operation board ④) illuminates, the hammer continues to rotate for a while due to inertia. Do not open the MAINTENANCE DOOR (see page 11, exterior ⑤) or the TRASH BOX DOOR (see page 11, exterior ③) until the hammer has completely stopped (the rotating sound has completely ceased).

(6) *Emergency Stop*

In case of an emergency, press the EMERGENCY STOP button (page 12, operation board ①). The EMERGENCY STOP button illuminates and the machine comes to an emergency stop without the time lag like with the OFF button (see (5) Stop Operation on page 21).

- ※Even after pressing the EMERGENCY STOP button, the hammer continues to rotate for a while due to inertia. Do not open the MAINTENANCE DOOR or the TRASH BOX DOOR until the hammer has completely stopped (the rotating sound has completely ceased).

To resume operation, turn the EMERGENCY STOP button clockwise until the light goes out. **In addition, ONLY restart machine operation after the cause of the emergency stop has been completely resolved.**

(7) Hammer Rotating Speed Control

With this machine, the rotation speed of the hammer can be adjusted using the circumferential speed switch (see below) located on the panel of the HAMMER ROTATING SPEED CONTROL BOX (page 11, exterior ⑥). The factory setting values are as follows.

※There is a risk of damage if the peripheral speed is not selected to suit the media being processed.

- ① 1st: For **SWINGING HAMMER**
- ② 2nd: Free setting (speed can be changed freely using the inverter in the control panel)

※For handling of the inverter, please refer to the inverter instruction manual.

- ③ 3rd: For **FIXED HAMMER**



< Power on lamp >

It illuminates when you turn on the BREAKER (see page 12, operation board ⑧)

SPEED SWITCHING

TROUBLESHOOTING

If you suspect an abnormal condition, for safety reasons, please immediately disconnect the power supply. If repairs are necessary, please contact us at 909-628-7030 or e-mail us at sales@ureach-usa.com.

PROBLEM	POSSIBLE CAUSES	SOLUTION
Dust collector's power indicator is flashing	①The 3-phase 230V is in reverse phase	①Turn off the power supply source and reverse the phase sequence of the power cord (page 14)
The upper light of the breaker does not illuminate	①Power cord is not connected ②Power supply source is turned off ③The breaker is in the OFF position ④There is a power outage	①Connect the power cord ②Turn on the power source ③Turn on the breaker (page 12) ④Wait until power is restored
Main power supply lamp does not illuminate	①The breaker is in the OFF position ②The upper light of the breaker isn't lit ③Main power is off	①Turn on the breaker ②See "The upper light of the breaker does not illuminate" ③Turn on the main power (page 12)
Machine doesn't start when you press the run button	①The upper light of the breaker isn't lit ②Main power supply lamp isn't lit ③The trash box is full ※The trash box full light is on ④The trash box door, dust collector door, and maintenance door are open. ※Close doors light is on ⑤Emergency stop activated ⑥Overload shutdown ※Overload shutdown light is on	①See "The upper light of the breaker doesn't illuminate" ②See "Main power supply lamp does not illuminate" ③Remove crushed materials from the trash box ④Close any open doors ⑤Unlock the emergency stop (page 21 (6)) ⑥Eliminate the cause of overload (page 20 (4))
Weak crushing capability	①Clogging inside the crushing chamber ②Lifespan of consumable parts such as hammers	①Clean the inside of the crushing chamber ②Replace consumable parts

PROBLEM	POSSIBLE CAUSES	SOLUTION
Crushed material larger than the diameter of the exit screen hole is discharged	① The exit screen is not installed correctly	① Install the exit screen correctly
The exit screen cannot be removed	① Dust and crushed debris have accumulated on the exit screen, making it difficult to remove	① Use a crowbar to pull out the exit screen using the lever principle
Suddenly stopped while operating	① The trash box is full ※The trash box full light is on ② Excessive load applied ※Overload stop light is on ③ The trash box door, dust collector door, and maintenance door are open. ※Close doors light is on ④ The upper light of the breaker isn't lit ⑤ Main power supply lamp isn't lit	① Remove crushed materials from the trash box (page 20 (3)) ② Eliminate the cause of overload (page 20 (4)) ③ Close any open doors ④ See "The upper light of the breaker does not illuminate" ⑤ See "Main power supply lamp does not illuminate"
Crushed pieces scatter from the input port	① The 3-phase 230V is in reverse phase so that the dust collector isn't operating ② Clogging in the crushing chamber ③ Clogging of dust collection port filter ④ The crushing capacity is weakening due to the lifespan of consumable parts such as hammers ⑤ Using garbage bags	① Turn off the power supply source and reverse the phase sequence of the power cord (page 14) ② Clean the inside of the crushing chamber ③ Clean the dust collection port filter ④ Replace consumable parts ⑤ Remove garbage bag
Vibration, strange noises, or unusual odors	① Contamination with foreign objects ② Abnormal installation of hammers and/ or other components	① Inspect the inside of the crushing chamber and remove foreign objects ② Check the installation status of parts

PROBLEM	POSSIBLE CAUSES	SOLUTION
The trash box full lamp remains lit up	① Using garbage bags that are not transparent ② The round hole on the side of the dust box is dirty	① When attaching garbage bags, use transparent ones ② Cleaning the round hole
The trash box cannot be removed (can't take it out)	① The locking lever has not been released	① Release the locking lever
The trash box door, dust collector door, and maintenance door will not open	① The handle is locked	① Unlock the handle
Anomalies related to the dust collector	① Various	① Refer to the instruction manual of the dust collector

PRODUCT SPECIFICATIONS

Product name	MIGHTY SECURITY
Model	MS-100S
Dimensions	57.1"W × 32.7"D × 57.3"H
Weight	1,350 lbs. (600kg)
Power	230V, 3-Phase, 30A
Motor	8 HP (5.9kw)
Inlet Dimensions	8.4"W × 2.5"D
Minimum Screen Size	φ2mm
Security levels in ISO/IEC 21964	HDD: ≤ 2,000 mm ² (H-4) SSD / Flash Media: ≤ 160 mm ² (E-3) CD / DVD / Blu-ray: ≤ 160 mm ² (O-3) Credit & Smart Cards: ≤ 160 mm ² (T-4)

CUSTOMER SERVICE AND REPAIR

◇ WHEN AN ABNORMALITY OCCURS DURING USE

Before requesting repairs, please read this manual carefully and inspect the MS-100S. If the problem persists, please contact us at 909-628-7030 or e-mail us at sales@ureach-usa.com instead of attempting to repair it yourself.

◇ REPAIR

- For repairs after the warranty period has expired, please contact your dealer. If the equipment can be maintained through repair, we offer paid repair services based on your request.
- Please contact the manufacturer if you have any questions.

◇ CONSUMABLE PARTS

- In order to maintain performance and use the MS-100S safely for the life of the machine, please use genuine consumable parts only. We cannot guarantee the performance or safety of the machine if non-genuine parts are used. Use of non-genuine parts will void the warranty.

Specifications are subject to change without notice.