Mother Bucker
Model: MB1
Operator's Manual

Please read the operator's manual and all included warnings carefully and make sure you fully understand the instructions before using the machine

181213

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WARNING

The operation, servicing and cleaning of the Mother Bucker by MUNCH Machine is hazardous and could cause severe injuries or worse. These machines are solely intended to be used for the harvesting and processing of cannabis and no other purpose. Do not operate, service or clean these machines without proper training, reading the instructions and fully understanding all aspects of these activities on these machines and fully knowing the risks involved. Your failure to abide these warnings is negligence on your part. As warned, you **assume all risks** associated with the lack of proper use, in any manner, of the Mother Bucker by Munch Machine.

- **WARNING** – This product is a piece of power equipment that if used in ways other than described by this instruction manual can result in operator injury or even death
- **WARNING** – All users need to fully read this instruction manual and familiarize themselves with the machine before operation
- **WARNING** – Keep all shields, guards and safety devices installed and in proper working order at all times.
- **WARNING** – Keep all hands, feet and clothing away from power driven parts.
- **WARNING –** This machine is capable of pulling body parts, hair, clothing, gloves, etc. into the feed holes of the installed Die Plate. Use extreme caution to prevent unintended items from entering the feed holes of installed Die Plates.
- **WARNING** – Unexpected energization or startup of the equipment is controlled by unplugging the equipment from the energy source; the plug must be under the exclusive control of the employee performing the servicing or maintenance.

Introduction

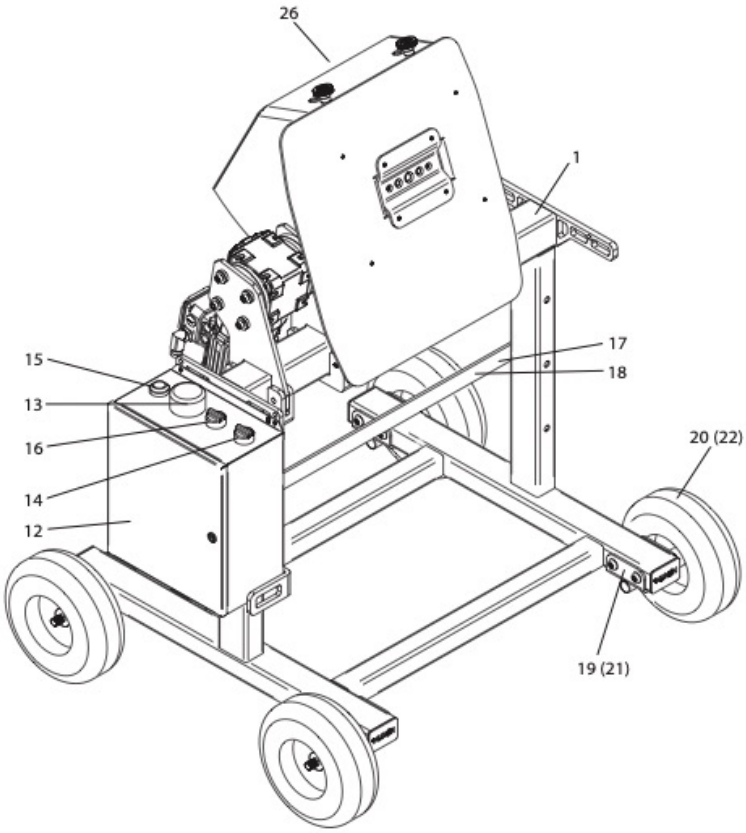
Thank you for your purchase of the Mother Bucker built by MUNCH Machine. Welcome to the best bucking team around! Our products are designed around years of real-world use and optimized for maximum reliability and durability. Every product we bring to market is designed, tested and manufactured 100% in the USA.

The Mother Bucker introduced mechanized bucking to the cannabis industry, and remains the most powerful and reliable harvester on the market. We strive to take a different approach when building equipment for the cannabis industry. Our goals are to put the customer first when it comes to both sales and service. We maintain a close relationship with farmers to be sure we are offering the best products to improve efficiency and lower production costs.

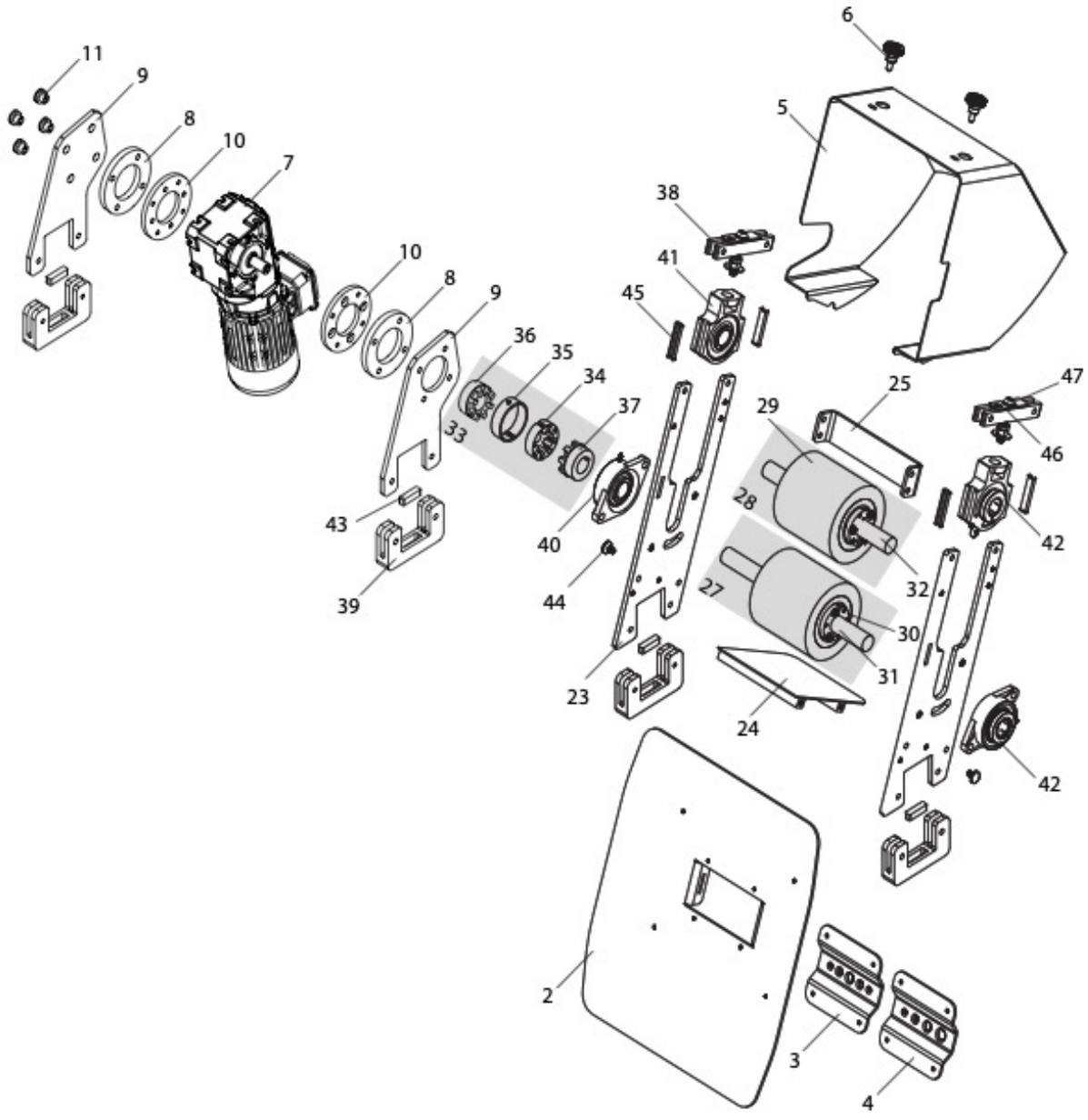
Our parent company Dauenhauer Manufacturing has roots that go back 75+ years as pioneers of the first mechanical hops harvesting equipment. Dauenhauer continues to sell and service some of the top producers in the hops industry. We are proud of this heritage and committed to carrying this tradition forward with MUNCH Machine.

All persons operating this machine need to fully read this instruction manual and familiarize themselves with the machine before operation.

Machine overview



1. Frame
2. Face Plate SS
3. Die Plate - Rounds 5 hole
4. Die Plate - Rounds 4 hole
5. Hood
6. Thumb screw Oct
7. Motor
8. Motor Spacer
9. Motor Mount Plate
10. Lenze Adapter
11. Motor Mount Bushings
12. Enclosure
13. Emergency Stop Button
14. Power Selector Switch (FWD, OFF, REV
15. Indicator Light
16. Speed Dial
17. Divider Strap
18. Cam Strap
19. Wheel Mount Bracket
20. Tires
21. Caster Mount Bracket
22. Casters
23. Side Plate
24. Lower Cross Plate
25. Upper Cross Plate
26. Bucker Head
27. Drive Roller
28. Follow Roller
29. Roller Rubber
30. QD Bushing
31. Drive Shaft
32. Follow Shaft
33. Shaft Coupler
34. Flex Element
35. Nylon Cover
36. 5R Coupler .75”
37. 5R Coupler 1.25”
38. Force Cap
39. Head Mount Bracket
40. Flange Bearing
41. Take Up Bearing
42. Bearing Collars
43. Pressure Pad
44. Hood Mount Peg
45. Take Up Bushing
46. Hood Bumper
47. Roller tension Bolts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Operator Safety

Training

Operators must be properly trained in the correct use of this machine before taking part in any operation. It is up to the facility to determine guidelines based on these instructions for use. It I sup to the organizations management structure to implement training programs, written procedures, and supervision that are compliant to local regulations.

Operation

- **WARNING** – This product is a piece of power equipment that if used in ways other than described by this instruction manual can result in operator injury or even death.
- **WARNING** – Keep all shields, guards and safety devices installed and in proper working order at all times**.**
- **WARNING** – Keep all hands, feet and clothing away from power driven parts**.**
- **WARNING** –This machine is capable of pulling body parts, hair, clothing, gloves, etc. into the feed holes of the installed Die Plate. Use extreme caution to prevent unintended items from entering the feed holes of installed Die Plates.

All persons operating this machine need to fully read this instruction manual and familiarize themselves with the machine before operation. The machine is built to have 1-2 operators standing at the front the machine feeding material through the die plate.

Machine Controls

Control Panel (Exterior)

Power Selector Switch OFF / FWD / REV
Mode selection switch allowing the user to turn the machine on (FWD), turn the machine OFF and to reverse (REV) the machine to clear any blockage.

Variable speed control
Adjusts the Roller revolutions per minute to allow the user to balance throughput and quality. Select faster roller speed to process flower more quickly, particularly when processing “wet” flower straight from the plant. Select slower roller speed for a higher quality result, particularly when processing previously dried flower.

Emergency Stop Button
Emergency shut off of the motor in the case of any incident or emergency.

Indicator Light
Indicates if the machine is powered ON. Due to low noise output of the machine, it can be difficult to determine if the machine is in operation without the indicator light.

Control Panel (Interior)

The control panel is designed to remain closed and locked at all times while the machine is running or connected to power. In the case that you need to open the control panel, please ensure that you take the utmost care to prevent dust or debris from entering.

- **WARNING –** High voltage – disconnect power before opening the Control Panel. Failure to do so can result in operator injury or even death. Troubleshooting may require the panel to be open while connected to power. This process should only be performed by qualified personnel.

VFD

The VFD Contained within the Control Panel comes updated with the latest software for the machine.

Circuit Breaker

A Circuit Breaker is contained within the control unit. If for any reason your machine becomes unresponsive, unplug the machine power, open up the side panel and check to be sure your circuit breaker has not been tripped. If this breaker continues to trip please contact Munch Machine Customer service team immediately as it may indicate a larger problem.

- 120V Models – 15amp breaker
- 230V Models – 10amp breaker

Roller Tension System

The rollers are one of the most essential elements of the entire system. Proper maintenance and care are needed to keep them in optimal condition.
IMPORTANT: Remove roller tension when the machine is not in use to avoid developing a flat spot in the rollers, which degrades machine performance. Apply tension prior to bucking as shown below, and remove roller tension after use.

Applying Roller Tension
Using the provided 5/16” hex key, tighten the two bolts located on top of the hood until fully seated with lock washers pressed flat.

Removing Roller Tension
Using the provided 5/16” hex key, loosen the two bolts located on top of the hood. These bolts will only back out ~5 full rotations. Once you feel the bolt provide resistance stop loosening. These bolts will not be loosened to the point of removal.

- **ATTENTION** – Do not make any adjustments to the tensioning system of the machine, the tension has been preset and will not need adjustment unless otherwise directed by MUNCH Machine.

Hood

The hood of this machine is designed to protect the user from moving internal parts of the machine, while allowing access for cleaning and maintenance. The hood must be installed and secured properly before any operation.

- **WARNING** – Keep all shields, guards and safety devices installed and in proper working order at all times**.**

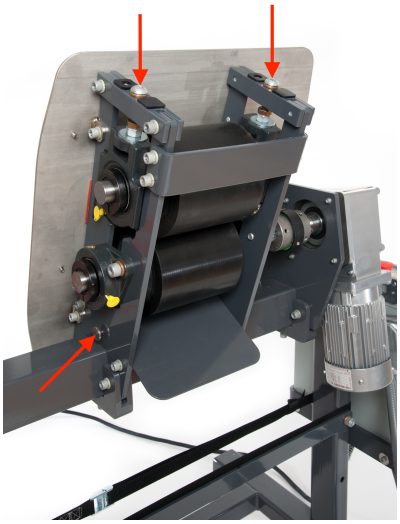
Hood Removal

Unplug the machine. Approach from the back side and locate the two thumb screws on the top of the hood. Also locate and note the position of the hood mount pegs, located on the lower left and lower right sides of the hood. Loosen and fully remove the two thumb screws one at a time while supporting the hood with the opposite hand.

- **CAUTION** – Supporting the hood with one hand while removing the thumb screws is crucial to prevent dropping the hood and possibly causing injury.

While still supporting the hood, place one hand on each left and right side of the hood using the lower edge for additional support, lift upwards on the hood while shifting it towards your body (away from the machine) to allow the hood to clear the two hood mount pegs.

Hood Installation



Unplug the machine. Approach the machine from the back side and locate the two hood mount pegs on the lower left and lower right sides of the bucking head side plates. Also locate the two roller tension bolts located on top of the force cap.

Lift the hood keeping the 4 holes upwards and away from your body, the curvature on the back of the hood should be the closest point to your body. Tilting the top edge of the hood slightly forward, align the Roller Tension Bolts with the top 2 holes on the Hood but do not set the hood down on the Force Cap. Leave about 1 inch of gap between the Hood and Force Cap as you slowly pivot the bottom of the hood downwards to the point where the notches on the hood and the hood mount pegs are centered on each other. Lower the hood so that it makes contact with the pressure plate. The two bolts should easily pass through the 2 larger holes on top of the hood, and the notches should seat on the hood mount pegs tight against the bucking head side plate on both the left and right side.

- **CAUTION** – Supporting the hood with one hand while installing the thumb screws is critical to prevent dropping the hood and possibly causing injury.

Locate the 2 unused smaller holes on top of the hood, align them with the threaded holes in the force caps, install the two thumb screws, and firmly tighten. Do not force the thumb screws - ensure that threads are aligned properly before tightening. If you feel any resistance, unscrew and restart. The thumb screws come pre-treated with food-grade anti seize, which may need to be reapplied over time.

Direct Contact Surfaces

The food-grade stainless steel Faceplate and Die Plate are designed to be the only machine surfaces in contact with product and are compatible with a cGMP compliant workflow. Daily cleaning of these plates with the proper cleaning products (See Cleaning) will reduce the potential for contamination of your product.

Face Plate

- **WARNING** – Operation of the machine without the face plate, or with the face plate improperly secured, will result in serious injury and possibly death

The face plate has eight ¼ - 20 holes threaded into it. Four of these holes have a button head bolt installed and serve as a placeholder for accessory options. The other four holes closest to the center cutout are for Die Plate installation.

Die Plate

- **WARNING** – Operation of the machine without the die plate or without the die plate being properly secured will result in serious injury and possibly death

To accommodate various uses of the machine, the machine has been designed to have interchangeable die plates that are attached to the faceplate of the machine via four ¼ - 20 X 7/16” stainless steel button head bolts.

5 Hole Die Plate (Installed)
Developed for use with smaller plants, this plate allows for two operators to feed material into the machine simultaneously. This configuration has 5 holes with diameters of 0.3” (7.7mm), 0.45” (11.5mm), and 0.6” (15.2mm).

4 Hole Die Plate (Included)
Developed for use with larger plants, this configuration has four holes with diameters of 0.3” (7.7mm), 0.45” (11.5mm), 0.6” (15.2mm), and 0.75” (19mm)

- **WARNING** – This machine is capable of pulling body parts, hair, clothing, gloves, etc. into the feed holes of the installed Die Plate. Use extreme caution to prevent unintended items from entering the feed holes of installed Die Plates.

Accessory available for purchase

Blank Plate

This die plate has no feed holes so that you can build a plate that best suits your needs. It will be up to the user to have the plate machined or modified to suit your needs.

Die Plate Removal

Unplug the machine. Stand in front of the machine and locate the four ¼ - 20 button head bolts that hold the die plate in place. Use a 5/32 hex wrench to loosen and remove the bottom two bolts. Loosen and remove one of the top two bolts, then support the plate with your free hand while you remove the last bolt. The die plate will lift out of the center cutout for cleaning or changing.

- **CAUTION** – Supporting the Die Plate with one hand while removing the bolts is critical to prevent dropping the plate and possibly causing injury.

Die Plate Installation

Unplug the machine. Stand in front of the machine and locate the four ¼ - 20 threaded holes closest to the center cutout. Place the die plate into the center cutout allowing the upper and lower wings to sit on the face plate. The die plate should be installed with the concave side facing the user. While holding the die plate in position, align the bolt holes on the die plate with the threaded holes on the face plate. Use a 5/32” hex wrench to loosely install the top two bolts, then loosely install the bottom two bolts. Finish tightening all four bolts. Do not overtighten. Occasional use of anti-seize is recommended on stainless steel bolts.

- **CAUTION** – Supporting the Die Plate with one hand while installing the bolts is critical to prevent dropping the plate and possibly causing injury.

Catchment System

This machine is designed to be used with multiple catchment options for bucked product falling off the direct contact surface of the machine. The frame is designed to be a support structure that is adaptable to multiple systems.

Bins
HDX 27 Gallon (Black & Yellow Bin): the machine has a cam strap located midway on the lower frame. This cam strap is designed to secure bins and buckets around their circumference to the frame of the machine.

Conveyors
Please reach out to the MUNCH Machine customer service team if you intend to attach a conveyor to your machine.

Machine Transport

This machine has two handles built into the frame: one is located on the right side of the machine, and the other is on the left side of the machine wrapping around the lower end of the control panel. Only these two handles and the lower frame are to be used for moving the machine.

- **WARNING** – When moving equipment on an inclined surface, use multiple people to prevent loss of control leading to injury or death.

- **ATTENTION** - Do not move the machine by pulling on the Motor or Bucker Head.

The machine will have one of two sets of wheels installed (this is the differentiating factor between Indoor and Outdoor machines).

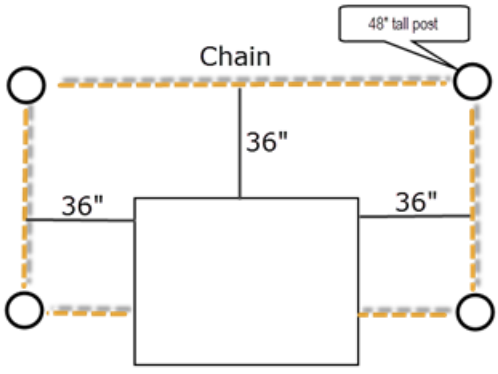
Indoor Casters
Indoor machines will come with 4” indoor casters installed. These casters allow for 360° rotation on a concrete or paved surface.

Outdoor Wheels
Outdoor machines will come with 8” flat free outdoor tires. These allow for movement on rough surfaces.

Machine Guarding

All guards must be in place before any operation of the machine. The die plate must be installed properly, the hood must be installed properly, and the Control Panel must be closed and locked.

To prevent processed stalk material from jamming in the outfeed side of the machine it is not possible to closely guard the outfeed area. To ensure personnel cannot reach into the rollers during operation a barrier guard on the sides and back of the machine must be in place. Four posts (48” tall) and a metal or plastic chain set 36” away from the machine and connected to the sides of the machine must be in place during operation. Signs on the chain advising personnel to stay out when the machine is running must be on the chain or posts.



Solid panels or rigid mesh panels may also be used and can be placed closer to the machine depending on the mesh opening size (US companies should refer to OSHA regulations). Consult with your local work place safety officials to ensure you meet your relevant regulations.

- **WARNING** – Operation of equipment without the proper guarding installed could result in serious injury and possibly death

Contact MUNCH Machine Customer Service if you need further assistance.

Machine Operation

Daily Inspection

- Check that the hood is installed properly
- Die plate is clean and free of debris.
- Rollers are clean and free of debris.
- Drive System and Coupler are in good condition and installed properly.
- Ensure all electrical components are in good working order
- Ensure all machine components are secure and in good working order.

Start Up

- Tighten Rollers using the provided 5/16” hex key to tighten the two button head bolts located on top of the hood until fully seated.
- Ensure the Power Selector Switch is in the “OFF” position
- Ensure the Emergency Stop button is in the “UP” position.
- Plug the machine in to a circuit having sufficient current capacity and correct voltage.
- Adjust Variable Speed Control to desired speed - if unknown then start slow and work your way up in speed paying close attention to the quality of the bucked material.
- Place Catchment System (bin, bucket, bag, conveyor, etc.) in position to receive material.
- Turn on the machine by rotating Power Selector Switch clockwise to the “FWD” position.

Operation

- Feed material into the Die Plate holes, attempting to select a Die Plate hole that matches the stem size.
- In the case of a product jam, rotate Power Selector Switch counter clockwise to “REV” to reverse the rollers until the jam is cleared, then release and rotate Power Selector Switch back to “FWD” and continue feeding material.

- Continuously monitor the outfeed of the machine to prevent the stem pile from reaching the height of the upper frame tube. At this point the machine needs to be unplugged and the stem pile needs to be removed from behind the machine.
    - **WARNING** – Machine must be unplugged before entering the guarded area behind the machine.

    - **ATTENTION** – Failure to remove stem pile once it has reached the height of the upper frame tube can result in machine damage or malfunction.

Daily Shut Down

- Turn Machine to "OFF" position.
- Unplug the machine.
- Loosen Rollers using the provided 5/16" hex key. These bolts will not be loosened to the point of removal.
- Clean the machine using the method defined below.
- Store the machine in a clean, dry, sheltered location.

Cleaning

This machine will perform at its best when cleaned after each use. The machine is built to wash-down rated specification ns, but some precautions need to be adhered to.

Recommended cleaning materials

- Rubber gloves
- Stiff plastic bristle brush
- 70% rubbing alcohol, or citrus based cleaner, in a spray bottle
    - **ATTENTION** - Do not use alcohol stronger than 70%. Anything higher will have an adverse effect on the rollers and cause premature breakdown. Use of high content alcohol will void the warranty.
- Clean, low-lint rags
- Plastic razor blades or application squeegee

With the Machine powered off, remove the hood. Use 70% alcohol in a spray bottle to spray down rollers and interior sides of the Bucker Head and Lower Cross Plate. Use a stiff bristle brush to scrub the rollers, then rotate the rollers by hand and repeat with additional alcohol. Do the same for any debris that is left on the Bucker Head or Lower Cross Plate. Once everything has been scrubbed down, apply 70% alcohol to a clean rag and wipe down rollers, Bucker Head, and Lower Cross Plate until clean.

Pressure Washers

The entire machine may be washed using water from a hose. The Rollers, Faceplate, Die Plate, and Frame may be cleaned using a high-pressure washer. Do not direct a high-pressure stream at any electrical components, Control Buttons, Motor, Cables or the Bearings.

- **ATTENTION** – Improper use of a pressure washer may cause damage to your machine. Avoid spraying directly into any electrical components, Control Buttons, Motor, Cables or the Bearings.

Use of a pressure washer is not recommended for daily cleaning of the machine. An annual deep clean with a pressure washer will keep the machine running properly, while not creating additional wear on the components.

- **ATTENTION** - Properly dry and protect and lubricate all components of the machine after using a pressure washer for cleaning.

Maintenance

General maintenance on the machine is minimal. The machine does have a few wear parts that the user needs to be aware of and maintain to keep the machine in good working order.

Lubrication

The Take Up Bearings and Flange Bearings will occasionally require greasing. Grease zerks are installed on each bearing for use with a grease gun. Due to the machine running at low speeds and low temperatures the machine does not use grease as quickly as other equipment.

- **ATTENTION** – Damage can occur to the bearing seals if they are over-greased.

Bearing Lubrication Intervals

- High use situations (daily use, year-round) require application of one grease pump per bearing every 3-4 months.
- Low to Moderate use situations (Seasonal use) require application of one grease pump per bearing 1 time per year.

Pump slowly; one grease pump will add enough grease for this application. One of the primary causes of bearing damage is over greasing.

- **ATTENTION** – Damage can occur to the bearing seals if they are over-greased.

Recommended Food Safe Lubricant:

- Lubriplate FGL-2 - product number L0232

Side Plate Lubrication
After a thorough cleaning of the machine, it will be necessary to lubricate the side plates where the Take Up Bushings and Side Plates interact to insure proper movement of the Take Up Bearings when loosening or tightening the Roller Tension System. This grease application can be applied by a gloved hand or a small brush.

Recommended Food Safe Lubricant:

- Lubriplate FGL-2 - product number L0232

Rollers
The Drive Roller and Follow Roller should be inspected during the cleaning process after each use. The rollers are a wear part and will need to be replaced occasionally, and only after significant wear is present on the rollers surface.

Proper care of the rollers starts with proper use of the Roller Tension System.

- **ATTENTION** – Do not make any adjustments to the tensioning system of the machine. The tension has been preset and will not need adjustment unless otherwise directed by MUNCH Machine.

Coupler
The green Flex Element within the coupler assembly is a wear component that reduces wear on the drive train components. This Nylon Cover and Flex Element should be removed and inspected prior to high use scenarios or inspected monthly in the event of perpetual harvest. With high wear the green Flex Element should be replaced. One additional Flex Element is included with each machine, and additional Flex Elements can be purchased from MUNCH Machine Customer Service. **It is recommended to keep a spare Flex Element on hand at all times.**

To remove the green Flex Element, back the two screws partially out of the Black Nylon Cover. Next, slide the Nylon Cover off, taking note of the alignment between the Nylon Cover screws and the holes in the Flex Element. The green Flex Element can then be removed by finding the split and then peeling the teeth out of the steel 5R Couplers. To reinstall work backwards through these steps, being mindful of the alignment between the Nylon Cover screws and the holes in the Flex Element.

While inspecting the Flex Element ensure that the black Nylon Cover is in good condition. Once installed, align the Nylon Cover with the Flex Element and ensure the screws are fully seated in the black Nylon Cover.

- **CAUTION** – Do not run the machine without a complete Coupler assembly.

Troubleshooting

Poor Roller Traction

Poor Roller traction is typically due to lack of tension between the two Rollers, buildup of material on the Rollers, or damage or wear to the Roller surfaces.

- Ensure that you read and understand the Roller Tension system of this machine.
- Inspect the roller surfaces for buildup of material; clean the rollers if necessary.
- Ensure that your roller cleaning products are not stronger than 70% isopropyl alcohol or a citrus based cleaner. Other products will damage the rollers.
- Inspect the rollers for wear grooves deeper than 1/8" (1.5mm).
- Contact MUNCH Machine Customer Service.

Blistering of the roller surface

- Insure that your roller cleaning products are not stronger than 70% Isopropyl Alcohol or a citrus based cleaner. Other products will damage the rollers.
- Contact MUNCH Machine Customer Service.

Any further questions regarding machine maintenance should be directed to MUNCH Machine Customer Service.

Compliance

Current Good Manufacturing Practices (cGMP) Compliance

MUNCH MACHINE Bucking equipment supports compliance to cGMP requirements through the use of food grade materials for the portion of the machine that contacts the useable plant material. Detailed use and cleaning instructions are provided with the equipment to assist plant growers and harvesters in developing their internal cGMP procedures.

FCC and ICES Compliance (110V model)

The MUNCH MACHINE Mother Bucker, Model MB1-120V has been third party tested and meets the requirements of FCC Part 15 and ICES-003 for Type A unintentional radiators

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

A Suppliers Declaration of Conformity may be obtained from the manufacturer.

EU Compliance (230V model)

The MUNCH MACHINE Mother Bucker, Model MB1-230V is in conformity with the relevant Community harmonization legislation and is CE marked. The EU Declaration of Conformity is provided with the shipping documents, and may be provided upon request.

Storage

This machine must be cleaned before storage, and stored in a clean and dry environment. Issues arising from improper storage are not covered under warranty.

Limited Warranty

We warrant for 5 years from purchase date and only to the original buyer (Buyer) that our products (Products) are free from defects in material and workmanship. If Buyer discovers a defect, the Product will be repaired or replaced at our discretion. That is the extent of our liability and obligations under this Warranty and, upon expiration of the applicable warranty period, all such liability and obligations shall terminate. We reserve the right to require proof of purchase for all warranty claims.
WARRANTY EXCLUSIONS:
We do not warranty Products against normal wear and tear (such as rubber rollers, bearings, or tire wear, etc.), unauthorized modifications or alterations, improper use, improper maintenance, accident, misuse, negligence, damage, or if the Product is used for a purpose for which it was not designed. This Warranty gives you specific rights, and you may also have other rights which vary from state to state. Except for expressly stated in this Warranty, we shall not be liable for direct, indirect, consequential, incidental, lost profits, lost revenue or failure to realize expected savings, as well other damages arising out of, or resulting from the/your choice to use and the use of the Product. This Warranty is in lieu of all other warranties, express or implied, including, but not limited to, implied warranties of fitness for a particular purpose (some states do not allow the exclusion or limitation of incidental or consequential damages or allow limitations on the duration of an implied warranty, so the above exclusions may not apply to you).

Customer Service

Phone:
541-371-2825

Email:
Info@MunchMachine.com

Mailing Address:
Frazer Industries, LLC
DBA: MUNCH Machine
PO Box 6764
Ketchum, ID 83340

Technical Specifications

Machine Dimensions

Height	52”	133 cm
Width	40”	102 cm
Depth	32”	81cm
Weight	300 lbs	136 kg

Power Requirements

110V Model (US/CAN)	Volts / Hz / Circuit / Amp Draw	110V / 60Hz / 15A / +/- 3 Amps
230V Model	Volts / Hz / Circuit / Amp Draw	230V / 50Hz / 10A / +/- 3 Amps
Circuit Compatibility	Incompatible with GFCI Circuit	

Components

Motor	1/2HP Lenze	373 Watt Lenze
Control Box	NEMA 4/12/13	
Power Cord and Plug	25’	7.62 m
Hood	Food Grade Powder Coated Steel	
Frame	Food Grade Powder Coated Steel	
Face Plate	304 Stainless Steel	
Die Plate	304 Stainless Steel	
Rollers	Aluminum Hub with Neoprene Rollers	
Shaft	1.25” Steel	
Coupler	Rexnord Wrap Flex 5R	
Bearings	Seal Master FDA Grease	

Wheel Options:

Indoor: Industrial Casters	4” Blickle	10 cm Blickle
Outdoor: Flat Free Off Road	10.4" Martin Wheel	26.4 cm Martin Wheel

Shipping Crate Dimensions

Height	59”	150 cm
Width	48”	122 cm
Depth	40”	102 cm
Weight / Shipped Weight	350lbs / 550lbs	160 kg / 250 kg
Construction	Made of Reinforced 3/8” Plywood	Made of Reinforced 9.5mm Plywood
Construction Type	Reusable	

EU DECLARATION OF CONFORMITY

Apparatus model:

Munch Machine
Model MB1-230V
Serial number 180917-2

The manufacturer:

Frazer Industries, LLC
doing business as: Munch Machine
160 4th Street West, Suite 1
Ketchum, ID 83340
U.S.A.

This declaration of conformity is issued under the sole responsibility of the manufacturer.

The above described apparatus is in conformity with the following relevant Community harmonization legislation:

- **Machinery Directive (2006/42/EC)**
- **Electromagnetic Compatibility Directive (2014/30/EU)**
- **Low Voltage Directive (2014/35/EU)**

and the following harmonized standards have been applied:

- **EN 61000-3-2:2014**
- **EN 61000-3-3:2013**
- **EN 61000-6-3:2007+A1:2011/AC:2012 Class A**
- **EN 61800-5-1:2007EN 50581:2012**
- **EN 60034-1:2010+AC2010**
- **EN 60034-5:2001+A1:2007**
- **EN 60664-1:2007**

Reference documents:
EMC Test Reports:
FRAZ0001

Signed at Ketchum, Idaho, U.S.A., on October 30, 2018

Tom Frazer

President, Frazer Industries, LLC