

Tabletop Seeder User Manual

Original Instructions



MODEL NUMBER: U0101C0002-01
YEAR OF CONSTRUCTION: 2026



ROOTED
ROBOTICS

ROOTED ROBOTICS
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UNITED STATES OF AMERICA

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INTRODUCTION

Thank you for choosing the Rooted Robotics Tabletop Seeder. Designed with the small grower in mind yet effective for farms of all sizes, this machine brings precision, consistency, and ease to your microgreen and leafy green planting process. With accurate seed weight calibration, the Tabletop Seeder delivers uniform planting, resulting in increased yields through greater consistency across each tray. Its user-friendly design requires minimal training for staff, and the efficiency gained ensures a fast return on investment. Built with durable materials and customizable settings, this seeder is perfect for controlled environment agriculture and adaptable to diverse farm scales.

This manual will guide you through setting up the seeder, calibrating seed weights, choosing rollers, and using optional add-ons to further optimize your seeding process. With the Tabletop Seeder, you'll achieve consistent, high-quality planting that saves time, reduces labor, and supports healthy crop growth.

PRODUCT OVERVIEW

The Rooted Robotics Tabletop Seeder is a versatile and efficient solution tailored to streamline the seeding process for microgreens and leafy greens. Initially designed with small growers in mind, the seeder's robust functionality and customizable settings make it an effective tool for farms of any size. The Tabletop Seeder arrives fully assembled, allowing you to start planting with minimal setup—simply open the electrical box, remove any packing materials, and plug it in to get started. By automating precise seed placement, the seeder reduces labor costs, improves crop consistency, and helps growers achieve higher yields, all while minimizing training time for staff.

KEY BENEFITS

Using the Tabletop Seeder brings a host of advantages to your operation, allowing for a quick return on investment and lasting improvements in planting efficiency and yield.

- **Fast ROI:** With labor-saving automation and minimal need for training, the Tabletop Seeder enables growers to quickly recover their investment while freeing up valuable time for other tasks.
- **Increased Yield:** Consistent, precise seed placement leads to uniform crop growth across trays, boosting yields and enhancing overall quality.
- **Reduced Training Requirements:** The seeder's intuitive controls mean that even new team members can get up to speed quickly, reducing the time and resources spent on staff training.
- **Durability for Long-Term Use:** Built with durable materials to withstand controlled environment agriculture, the Tabletop Seeder ensures reliability and longevity for a variety of farm setups.

HOW THIS MANUAL HELPS

This manual is your guide to getting the most out of the Rooted Robotics Tabletop Seeder. Inside, you'll find step-by-step instructions for setting up your seeder, calibrating seed weights to your ideal specifications, selecting and using the appropriate roller for your seed type, and operating optional add-ons to further enhance your planting process. Following these instructions will ensure optimal performance, consistent results, and minimal downtime in your growing operation.

ABOUT US

Our skilled team of engineers, designers, and industry veterans is the Swiss-army knife of the indoor farming industry. With backgrounds in small to large scale farm operations, machine design, software, computer vision, and machine learning, we're able to tackle the key problems that controlled environment agriculture farms face. Rooted in robotic automation, we provide affordable tools, technology, and insights that allow farm operators to strategically plan for a more profitable future enabled by intelligent and interfacing machines.

 WARNING **HEAVY EQUIPMENT — RISK OF SERIOUS INJURY**

MINIMUM TWO-PERSON LIFT REQUIRED. Do not attempt to lift, move, or reposition this machine alone. A minimum of two (2) persons is required for all lifting and handling operations.

USE MECHANICAL TRANSPORT WHERE POSSIBLE. Use an appropriately rated hand truck, cart, or dolly whenever transporting this machine. Verify that the transport device is rated for the weight of the machine before use.

USE PROPER LIFTING TECHNIQUE. Bend at the knees, keep your back straight, and grip the machine at designated lift points only. Do not twist while lifting. Ensure firm footing and a clear path before moving.

CHECK WEIGHT BEFORE HANDLING. Machine weight is clearly marked on the equipment nameplate and on the exterior of the shipping packaging. Refer to the weight marking before any lifting or transport operation to ensure adequate personnel and equipment are available.

Failure to follow these instructions may result in serious musculoskeletal injury, crushing hazards, or damage to equipment.

 WARNING **LOCKOUT REQUIRED BEFORE CLEANING OR MAINTENANCE**

Before performing any cleaning, maintenance, or blade service, complete the following lockout procedure:

Step 1 — Press the Emergency Stop (E-Stop) button to immediately de-energize the machine.

Step 2 — Disconnect the machine from the power source. Unplug the power cord from the outlet or isolate the supply at the disconnect switch.

Step 3 — Wait for the blade and all moving components to come to a complete stop before proceeding.

Step 4 — Verify zero energy state. Attempt to restart the machine to confirm it will not operate. Return the start control to the OFF position after testing.

Step 5 — Proceed with cleaning or maintenance only after confirming the machine is fully de-energized and the blade is stationary.

CLEANING PROCEDURE: Refer to the Cleaning and Sanitation section of this instruction manual for approved cleaning agents, methods, and recommended cleaning frequency. Do not use high-pressure water spray directly on electrical components or controls.

Failure to lock out equipment before cleaning or maintenance may result in unexpected machine startup, causing amputation, severe laceration, or death.

GETTING STARTED

Before running your first batch, it's important to calibrate your machine for your specific seed type and production needs. The Seeder uses a control dial that lets you fine-tune key settings such as belt speed, roller speed, and the watering features. While some variation in seed weight is normal—**typically within $\pm 5\%$ of your target**—our testing shows that even distribution and consistent spacing often lead to better germination and higher yields than hand-seeding. Some seed loss is expected with any automation system, but it's typically very minimal compared to the amount of seeds that actually land on the tray. Once you're dialed in, the Seeder will provide reliable, repeatable performance with minimal adjustment. The next section outlines each menu screen on the dial and what it controls.

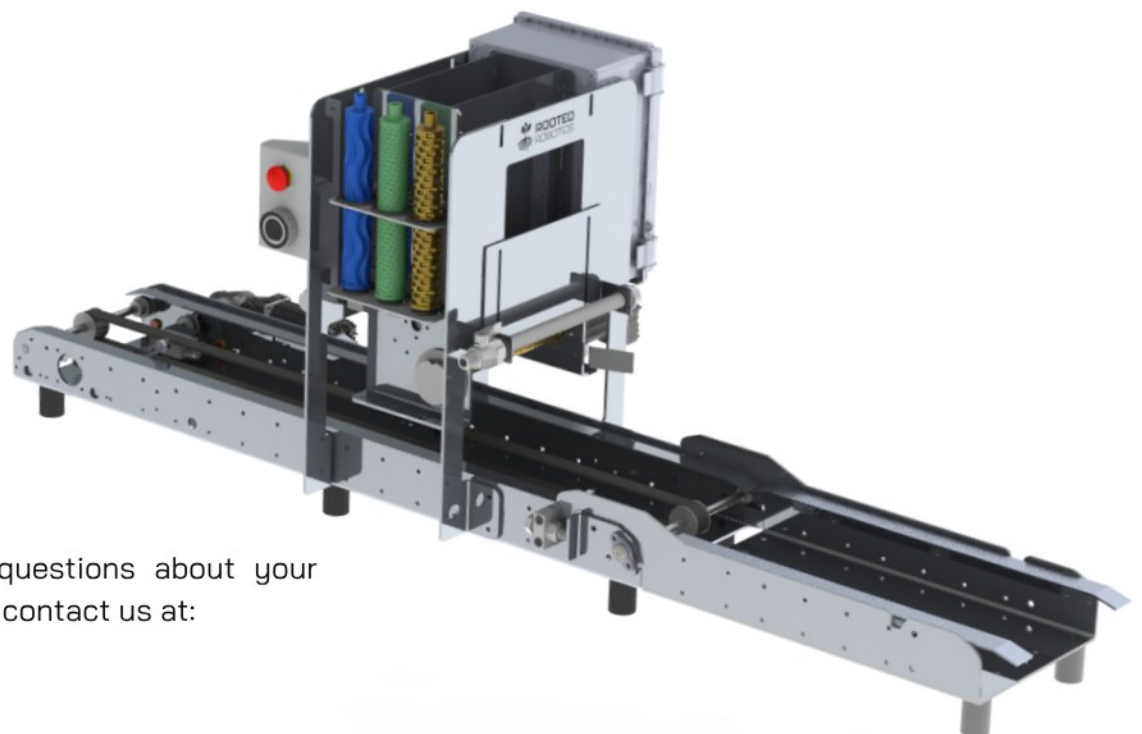
SETUP AND CALIBRATION

Seed Weight Calibration:

1. Choose and insert the correct roller based on your seed type.
2. Load seeds into the hopper, ensuring the roller is fully covered. Some seed spillage at this stage is normal.
3. Place an empty tray on the scale and tare it to zero. You can use a paper towel to help prevent seeds from bouncing out.
4. Turn on the machine and use the dial to select the seed variety you are testing.
5. Run the tray through the machine, collect the seeded tray, and weigh it.
6. Using the "Edit" feature, adjust the speed until you achieve the target weight three times in a row for accuracy.

Watering Feature Calibration:

1. Connect your water source. Do not load seeds into the hopper during this test.
2. If using the Booster Pump Add-On, ensure the intake line is fully submerged. Run the machine and check for smooth, continuous flow—if the pump sputters, increase the flow using the dial on the pump body.
3. Place a tray with media (or towels/absorbent material) on the belt.
4. Select the seed variety you plan to run, and start the machine. The watering bar will turn on and off automatically based on belt speed.
5. Observe water coverage. Use the dial to fine-tune the watering bar's start and stop time if needed.
6. For precise water amounts per tray, weigh the tray before and after watering. Adjust the needle valves or belt speed until you achieve the desired weight consistently.
7. Once flow is consistent and water volume is dialed in, you're ready to begin seeding.



CUSTOMER SUPPORT

For additional assistance, troubleshooting or questions about your Tabletop Seeder, our team is here to help. Please contact us at:

Email: customer-support@rootedrobotics.com

Phone: +1 (720) 999-9927

Website: www.rootedrobotics.com

INTENDED USE

The Tabletop Harvester is designed for cutting leafy greens, microgreens, baby greens, and mushrooms grown in standard 1020 grow trays (up to 3 inches tall) in controlled environment agriculture facilities.

Intended Operators: Trained Adult operators in commercial agriculture settings.

Intended Environment: Indoor, dry, temperature-controlled facility with appropriate electrical supply.

Operating Limits: 110V AC (US), 230V AC (EU).

- Do NOT use for cutting wood, meat, bone, or any material other than soft plant matter in grow trays.
- Do NOT operate with guards removed or safety devices disabled
- Do NOT use outdoors or in wet conditions.
- Do NOT use with trays exceeding 3 inches in height or non-1020 format trays.
- Do NOT operate the machine without reading this manual and watching setup videos.
- Do NOT allow untrained or unsupervised persons to operate the machine.

SAFETY INFORMATION

Signal Words and Symbols

- DANGER – Indicates a hazardous situation that, if not avoided, will result in death or serious injury.
- WARNING – Indicates a hazardous situation that, if not avoided, could result in death or serious injury
- CAUTION – Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury

Residual Risk Warnings

- Blade contact is still possible during blade changes and maintenance, even with no power present at the blade
- Pinch points exist at the conveyor belt and rollers. Keep hands, hair and loose clothing clear of the belt feed area during operation.
- The machine contains voltages up to 110V AC (US) or 230V AC (EU) internally. Do not open the control panel enclosure.

Recommended Personal Protective Equipment (PPE):

- Cut resistant gloves for normal operation, blade inspection, blade changes, blade changing, and manual blade tracking checks
- Safety Glasses for normal operation, cleaning with compressed air, cleaning with sanitizers.
- Hearing protection for extended blade operation and compressed air use.
- Closed toed shoes for all stages of machine life cycle.

Emergency Stop

- The E-stop button is located in the middle of the control panel, between the soft kill switch and the control dial. The e-stop has a bright red mushroom head with a yellow background making it easily identifiable
- To activate the E-stop, press it in firmly. Upon this press all motor power is cut from the machine with the blade stopping immediately.
- To reset the machine, twist the E-stop button clockwise to release. The machine will NOT restart automatically, the operator must initiate a deliberate restart sequence
- The E-stop should be used any time an unsafe condition is observed, when any injuries occur, or at any point the operator feels unsure about the machine behavior. The E-stop must also be activated for routine cleaning and maintenance.

 DANGER

ROOTED ROBOTICS — SEEDER

ELECTRICAL HAZARD — DO NOT OPERATE MACHINE WITH ENCLOSURE OPEN

RISK OF ELECTRIC SHOCK OR ELECTROCUTION. This enclosure contains energized electrical components carrying hazardous voltage. Contact with live conductors or terminals may cause electric shock, severe burns, or death.

CLOSE ENCLOSURE BEFORE OPERATING MACHINE. The electrical enclosure must be fully closed and secured before starting or operating the machine. Do not run the seeder, conveyor, or any machine function while the enclosure is open.

QUALIFIED PERSONNEL ONLY. Only qualified electrical or service personnel authorized by Rooted Robotics may open this enclosure for troubleshooting, inspection, or repair. Refer to the instruction manual for the required lockout procedure before opening.

*This label must remain affixed to the electrical enclosure and legible at all times. Do not obscure or remove.
Failure to comply may result in electric shock, electrocution, or death.*

 WARNING

ROOTED ROBOTICS — SEEDER

LIVE TROUBLESHOOTING SAFETY REQUIREMENTS

If live troubleshooting of the electrical enclosure is required by qualified service personnel, the following conditions must be met at all times while the enclosure is open:

DO NOT OPERATE BLADE OR CONVEYOR. Do not run the seeding blade, conveyor belt, or any mechanical function of the machine while the electrical enclosure is open. Live troubleshooting is limited to electrical diagnostics only. Operating moving components with the enclosure open creates simultaneous electrical and mechanical hazards that may result in serious injury or death.

QUALIFIED PERSONNEL ONLY. Live troubleshooting must be performed only by personnel qualified to work on energized electrical equipment and authorized by Rooted Robotics. The technician must use appropriate personal protective equipment (PPE) including insulated tools and, where applicable, voltage-rated gloves.

KEEP UNQUALIFIED PERSONS CLEAR. All other personnel must remain clear of the machine and the open enclosure during live troubleshooting. Establish a safe perimeter and ensure no untrained persons can inadvertently contact exposed conductors or operate machine controls.

CLOSE ENCLOSURE BEFORE RESUMING OPERATION. Upon completion of troubleshooting, fully close and secure the electrical enclosure before returning the machine to normal operation. Verify that all covers, fasteners, and cable entry seals are properly reinstalled.

Failure to follow these requirements may result in electric shock, electrocution, entanglement, laceration, or death.

GETTING TO KNOW YOUR CONTROL DIAL



LOADING SCREEN WHEN MACHINE TURNED ON

This screen only shows when the machine is booting up. It usually takes less than a minute to boot.



VARIETY SELECT/EDIT

Press the select button to use this variety preset or press the edit button to adjust the settings for that variety.



VARIETY SELECTION CONFIRMATION

Your variety is selected and you are ready to seed when the second screen loads.



STATE SCREEN

Swiping up from the variety select/edit screen will bring you to the state screen. From here you can view which preset is being ran, if the belt is running. Clicking start and stop machine will pause the belt, and resume it.

GETTING TO KNOW YOUR CONTROL DIAL: EDIT SETTINGS



SPIN SPEED OF THE SEED ROLLER

Rotate the dial to adjust the roller speed, with settings ranging from 0 to 250. Increasing the roller speed will dispense more seeds.



SPEED OF THE BELT THAT MOVES THE TRAY

Rotate the dial to adjust the belt speed, with settings ranging from 0 to 20. Increasing the belt speed will result in fewer seeds being collected at the same roller speed.



START TIME FOR ROLLER TO BEGIN DISPENSING

Rotate the dial to adjust when the roller starts. Some trays are slightly different sizes. This allows you to reduce seed spillage by starting the seed roller at the right moment.



STOP TIME FOR ROLLER TO END DISPENSING

Rotate the dial to adjust when the roller stops. This allows you to reduce seed spillage by stopping the seed roller at the right moment.



START TIME FOR PRE-SEED WATERING BAR

Rotate the dial to adjust when the watering starts. Some trays are slightly different sizes. This allows you to reduce water spillage by starting the watering bar once the tray is directly below it.



STOP TIME FOR PRE-SEED WATERING BAR

Rotate the dial to adjust when the watering starts. Some trays are slightly different sizes. This allows you to reduce water spillage by stopping the watering bar right before the back of the tray passes underneath it.



START TIME FOR POST-SEED MISTING BAR

Rotate the dial to adjust when the watering starts. Some trays are slightly different sizes. This allows you to reduce water spillage by starting the misting bar once the tray is directly below it.



STOP TIME FOR POST-SEED MISTING BAR

Rotate the dial to adjust when the watering starts. Some trays are slightly different sizes. This allows you to reduce water spillage by stopping the misting bar right before the end of the tray passes underneath it.



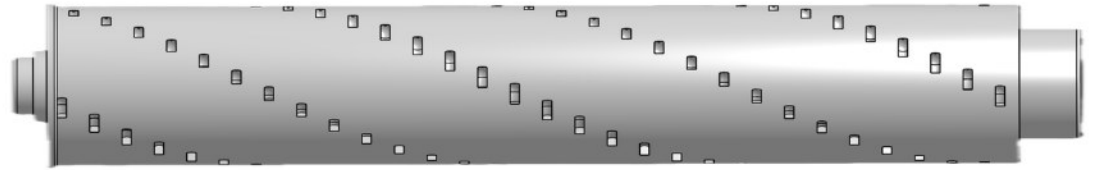
SAVE SETTINGS OR RETURN TO MENU

Use this screen to save your current settings or return to the menu. Tap "Save Settings" to store your adjustments, or select "Menu" to go back without saving.

ROLLER TYPES AND SEED COMPATIBILITY

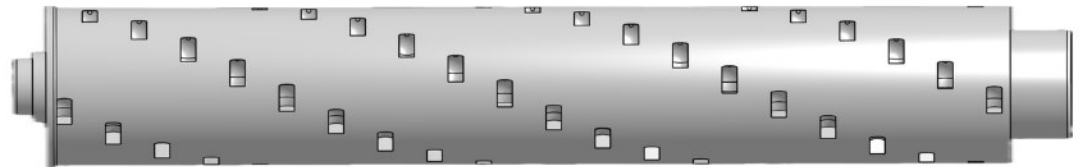
XS SEEDS

*use for: arugula, broccoli, basil,
mustard, amaranth*



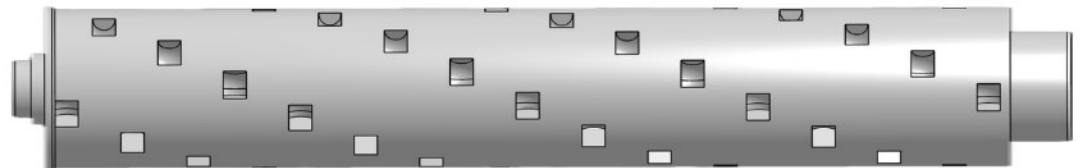
SMALL SEEDS

*use for: brassicas, broccoli, kale,
arugula, mustard*



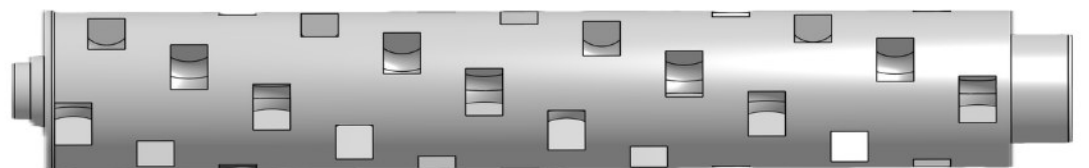
MEDIUM SEEDS

use for: larger brassicas, cabbage



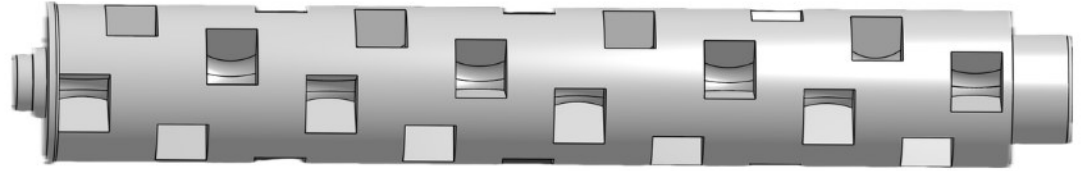
LARGE ROLLER

use for: radish

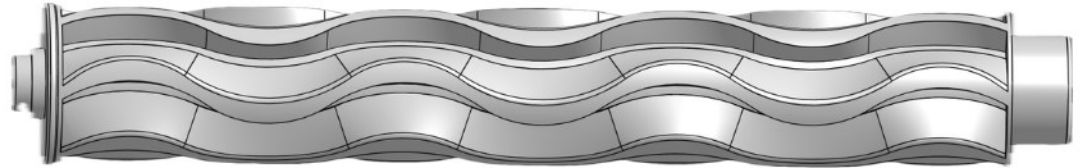


ROLLER TYPES AND SEED COMPATIBILITY

XL ROLLER
use for: cilantro



LARGEST ROLLER
use for: beets, bulls blood



SOFT ROLLER
use for: peas, chard, and other odd shaped large seeds

NO IMAGE

TRANSPORT, HANDLING AND STORAGE

- Always use designated lifting points and grip locations.
- Machine mass: 55 - 77 lbs (25 - 35 kg) – requires minimum two (2) people and/or mechanical aid to lift.
- Dimensions: 51 x 36 x 36 in (1295 x 915 x 915 mm)
- **WARNING:** Sharp edges and blade inside packaging – wear cut resistant gloves during unpacking and setup.
- Stability requirements for work surface: minimum surface dimensions, weight capacity >100 lbs, level, non-slip.
- Storage conditions: indoor, dry, ambient temperature, blade detensioned for long-term storage.
- Clear workspace of tripping hazards (packaging materials) before positioning machine

WORKSTATION

- The Operator(s) for the Tabletop Seeder machine should place the harvester at a comfortable working height, with the tray intake belt located around waist level. Ensure the harvester is located on a stable surface.
- The operator(s) should be located at the infeed side of the machine when loading trays into the seeder and the outfeed side when collecting the harvested trays.
- When placing 1020 trays onto infeed belt, operator should NOT manually push trays towards the hopper, instead allowing the conveyor to catch trays and direct them towards hopper
- Allow multiple feet of space between the machine and all walls or other machinery to allow for smooth operation, maintenance and cleaning.
- Before operation of the machine, ensure no untrained bystanders are in the operating zone of the machine.

SECURE AFTER PLACEMENT. After placing the machine on the installation surface, verify that it is level and stable. If the machine is equipped with mounting holes or clamp points, secure it to the surface to prevent movement during operation. An unsecured machine may shift, vibrate off the surface, or tip during use.

Failure to follow these requirements may result in serious musculoskeletal injury, crushing hazards, equipment damage, or tipping during operation.

 DANGER

ROOTED ROBOTICS — SEEDER

UNPLUG BEFORE CLEANING

RISK OF ELECTRIC SHOCK OR ELECTROCUTION. This machine must be completely disconnected from the power source before any cleaning, washdown, or sanitation procedure. Cleaning a machine that is connected to power creates a risk of electric shock, electrocution, or death.

NEVER USE WATER NEAR THIS MACHINE WHILE PLUGGED IN. Do not spray, splash, wipe with wet cloths, or allow any water or liquid to contact any part of this machine while the power cord is connected to an outlet. Water contact with an energized machine may cause electric shock, short circuit, fire, or death.

VERIFY POWER IS OFF. After unplugging the machine, confirm that the control dial display is completely dark and shows no illumination. If the display remains lit after unplugging, stop immediately and do not proceed with cleaning. Contact Rooted Robotics service.

This label must be placed in the operator's direct sightline and remain legible at all times. Do not obscure or remove.

Failure to comply may result in electric shock, electrocution, fire, or death.

 WARNING

ROOTED ROBOTICS — SEEDER

MANDATORY LOCKOUT PROCEDURE BEFORE CLEANING

Complete all steps in order before beginning any cleaning, washdown, or sanitation procedure:

Step 1 — Press the Emergency Stop (E-Stop) button to immediately de-energize the machine.

Step 2 — Unplug the machine. Disconnect the power cord from the wall outlet or supply receptacle. Do not rely on the E-Stop alone.

Step 3 — Verify power is off. Check that the control dial display is completely dark and shows no illumination. A dark display confirms the machine is fully de-energized. If the display remains lit, stop and do not proceed — contact Rooted Robotics service.

Step 4 — Wait for all moving components (blade, conveyor, rollers) to come to a complete stop.

Step 5 — Proceed with cleaning only after confirming: (a) the power cord is disconnected, (b) the control dial display is dark, and (c) all moving components are stationary.

NEVER USE WATER NEAR THIS MACHINE WHILE PLUGGED IN. Water contact with an energized machine creates an immediate risk of electric shock, electrocution, short circuit, or fire. If water has contacted the machine while it was plugged in, do not touch the machine. Disconnect power at the breaker panel and contact Rooted Robotics service before resuming use.

Failure to complete this lockout procedure before cleaning may result in electric shock, electrocution, fire, or death.

CLEANING PROCEDURES

Purpose

Keep all seed-contact and tray-contact surfaces visibly clean during use and thoroughly cleaned after use to protect product quality and consistent metering.

Approved agents and methods

- Use potable water, food grade detergents, peroxide or peracetic acid based sanitizers per label.
- Do not use chlorinated cleaners.
- Wipe or hose with a handheld nozzle. Do not use a pressure washer.

Routine cleaning during operation (every 250 trays)

- Keep the hopper rim, roller cavity, tray receiver, and belt path free of seed dust and fragments.
- Wipe the selector dial and tray sensor window as needed to maintain reliable detection.
- Clean conveyance belt and pulleys, keep the belt moving and spray with compressed air or a water hose on jet mode to flush debris out of belt and pulley teeth.
- Avoid getting water into the hopper, roller cavities, or onto dry seed. Resume seeding only after all these components are dry.



CAUTION:

Always be sure that the e-stop is engaged and the power is unplugged before attempting to perform inspection and maintenance.



End of day cleaning

1. Disconnect power.
2. Empty seed from the hopper. Store seed in labeled containers.
3. Remove seed rollers and the roller quiver. Wipe all parts; if washing, rinse, sanitize if desired, and dry completely before reassembly.
4. With the belt running, spray the belt with a hose on jet mode to clear dust from the running surface and underside.
5. Hose the tray receiver and drive unit tray path. Avoid direct spray into motor housings and the electronics box.
6. Wipe exterior panels, touch points, and the selector dial.
7. If using additives/chemicals with watering add-ons, flush lines with clean water for at least 60 seconds, then relieve pressure and allow residual water to purge.
8. Allow components to air dry fully before loading seed.

Deep cleaning (as needed)

1. Hose the machine with potable water using a handheld nozzle, then use compressed air to dislodge trapped debris and speed drying. Avoid directing water or airflow into motors, bearings, or the electronics box. Do not use a pressure washer.
2. Detension the main conveyance belt enough to remove it from the pulleys, then scrub the pulleys and the belt; clear embedded debris, reinstall the belt, tension to spec, and verify tracking.
3. Remove and individually clean seed rollers; ensure they are fully dry before reinstalling.
4. Inspect and clean drain paths so water cannot pool.

Do and do not

- Do keep food contact parts clean before, during, and after operation.
- Do run the belt while spraying it to move debris off.
- Do avoid direct spray at bearings, motors, and the electronics box.
- Do not use chlorinated cleaners.
- Do not use a pressure washer.

CLEANING PROCEDURES

Purpose

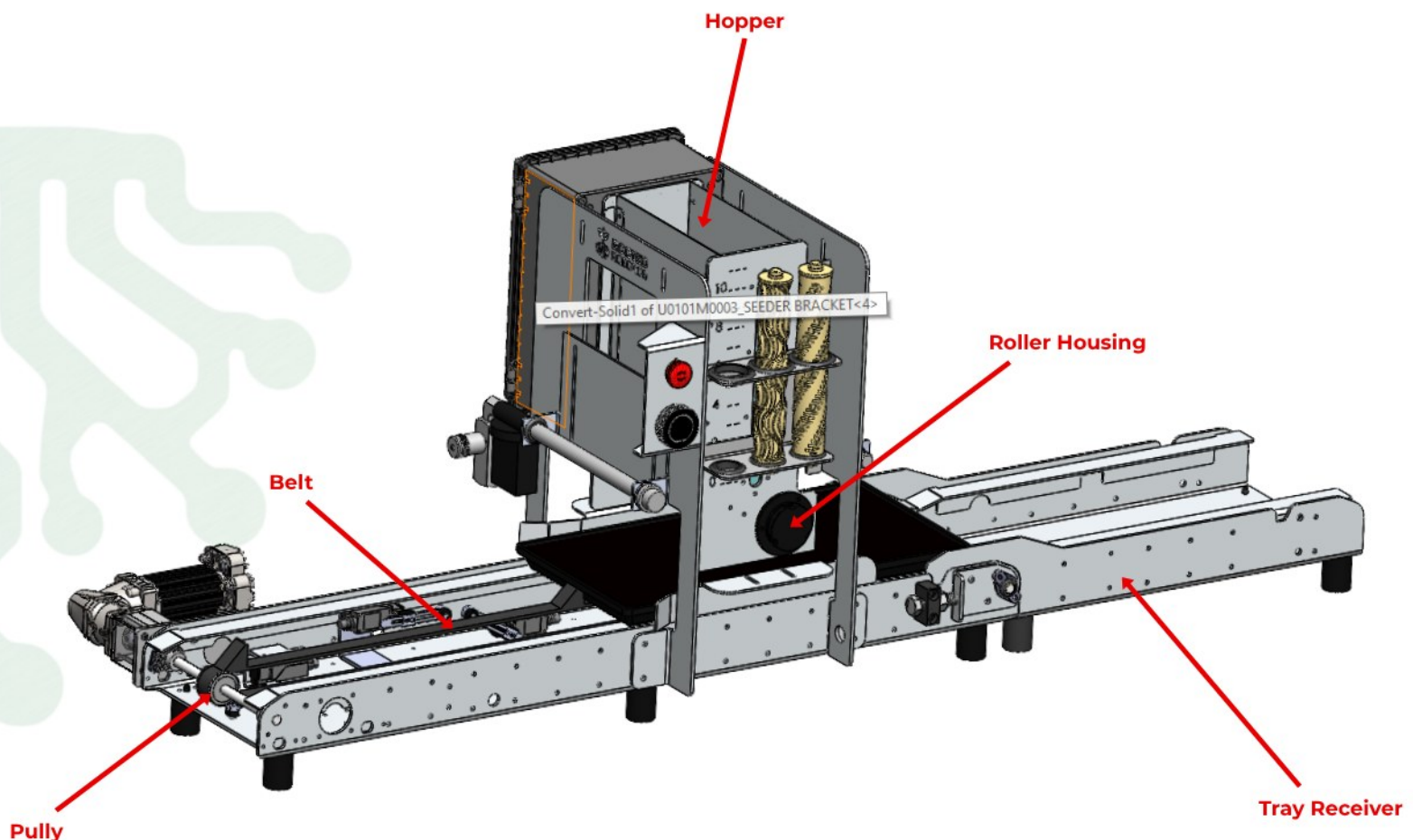
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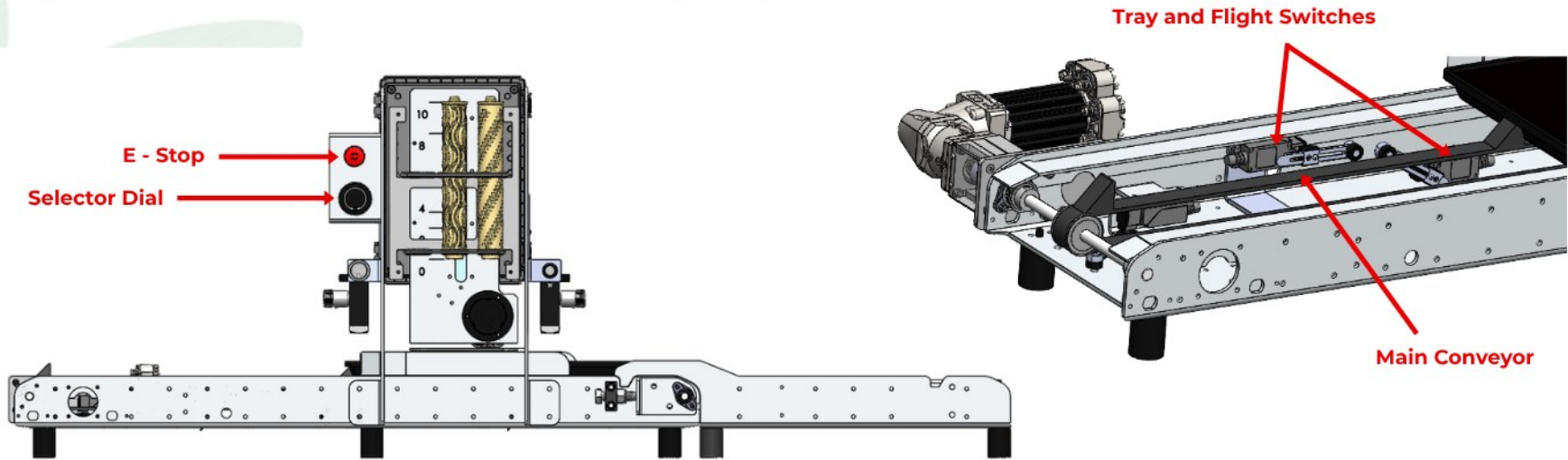
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MAINTENANCE AND REPLACEMENT INTERVALS

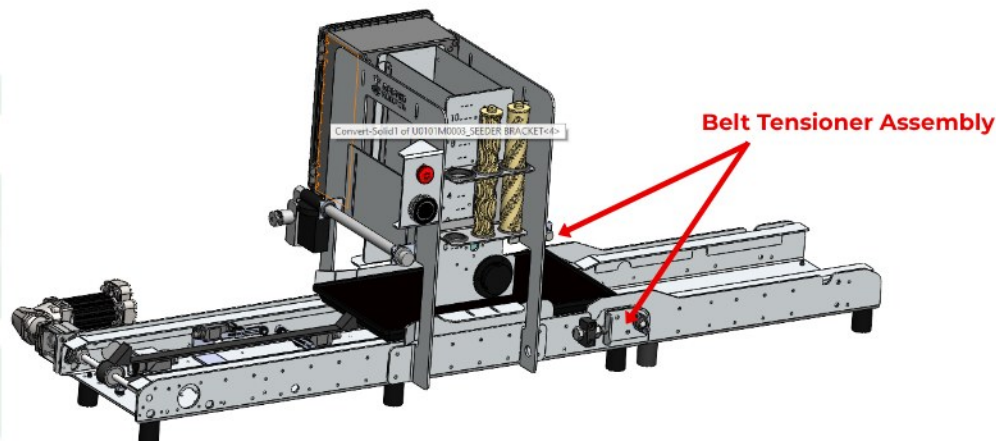
Before each use

- Verify emergency stop and controls function.
- Inspect main conveyance belt for cuts, fraying, glazing, splice damage, and proper tracking; adjust tension/tracking if needed.
- Check tray sensor alignment and operation; if misreads persist check cable connections, realign or replace the sensor.
- Inspect seed rollers for surface wear, nicks, swelling, or end-cap looseness; replace rollers that affect metering consistency.
- Check fasteners on hopper, tray receiver, guards, and sensor brackets for looseness.
- Inspect electrical connectors and at the selector dial, e-stop and both motors.



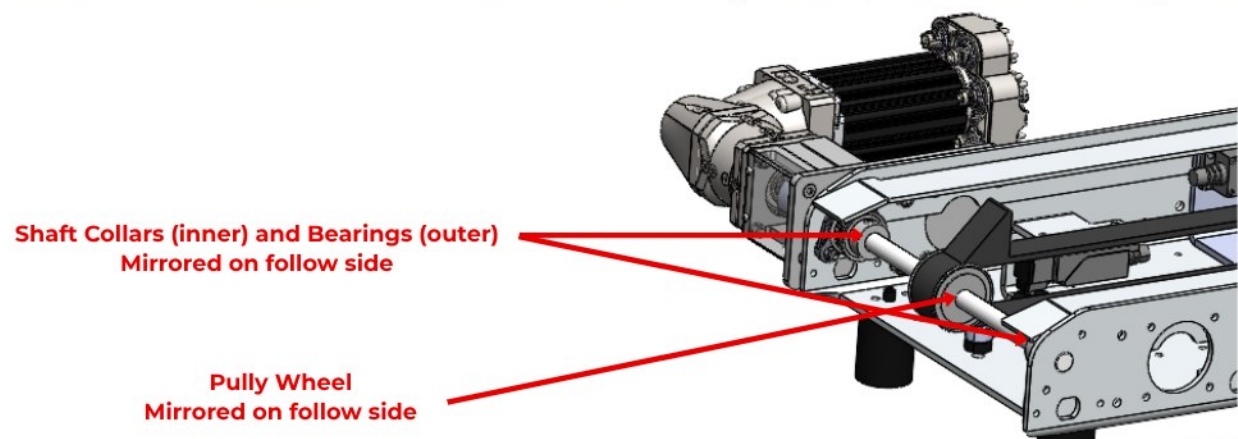
Weekly

- Confirm belt tension is within adjuster range; if adjusters are near end of travel, plan belt replacement.
- Inspect drive and idler pulleys for groove wear or buildup; verify set screws and keys are secure and there is no wobble.



Every 5,000 trays

- Re-validate seed weight calibration on a representative variety; update presets if drift is observed.
- Inspect shafts and drive engagement features for polishing, flats, or play; replace worn shafts.
- Inspect the roller connection point where it mates with the motor shaft coupler for rounding, slop, or wear; replace the roller if wear is present.
- Inspect the conveyor bearings. We want to be sure that the inner core of the bearing is intact, and the shaft is supported.



MAINTENANCE AND REPLACEMENT INTERVALS

Every 25,000 trays

- Evaluate main conveyance belt and replace if glazing, edge fray, splice lifting, or persistent slip remains after tracking and tension adjustments.
- Verify all enclosure and guard fasteners torque; replace damaged hardware.

As needed

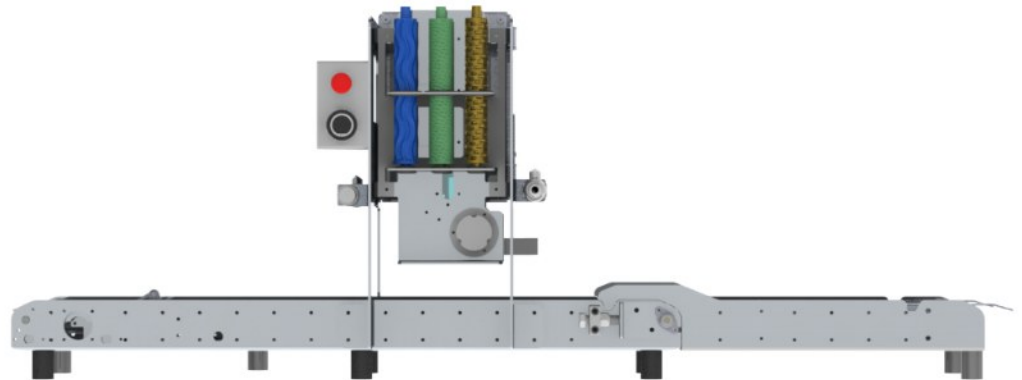
- Replace seed rollers that no longer meter consistently after cleaning and re calibration.
- Replace the tray sensor if detection is erratic after cleaning, alignment, and cable checks.
- Replace pulleys showing groove rounding, cracking, or hub loosening.
- Replace damaged wiring and connectors.

Notes

- All bearings are sealed and are not to be greased.
- Do not use chlorinated cleaners.
- Do not use a pressure washer.

FEATURES

- **Precision Seeding:** Ensures consistent seed distribution for increased yield
- **Adjustable Settings:** Choose from 250 roller speed levels and 20 belt speed levels, with customizable start and stop times for all features
- **User-Friendly Interface:** Features presets for plug-and-play operation
- **Versatile Roller Options:** Suitable for various seed types
- **Durable Construction:** Built to withstand long-term use
- **Energy Efficient:** Low power consumption
- **Low Maintenance:** Easy to maintain, clean, and store
- **Adaptable Design:** Supports additional tray receivers for expanded capacity



PHYSICAL SPECIFICATIONS

OVERALL UNIT L x H x W (in)	67 x 25.25 x 22
OVERALL UNIT L x H x W (mm)	1701.8 x 641.35 x 558.8
DRIVE UNIT LENGTH (in) [mm]	47 [1193.8]
TRAY RECEIVER LENGTH (in) [mm]	21 [533.4]
WEIGHT	75lbs (34kg)
MATERIAL	ALUMINUM
TRAY COMPATIBILITY	1020 GROW TRAYS UP TO 3" TALL

INPUT POWER REQUIREMENTS

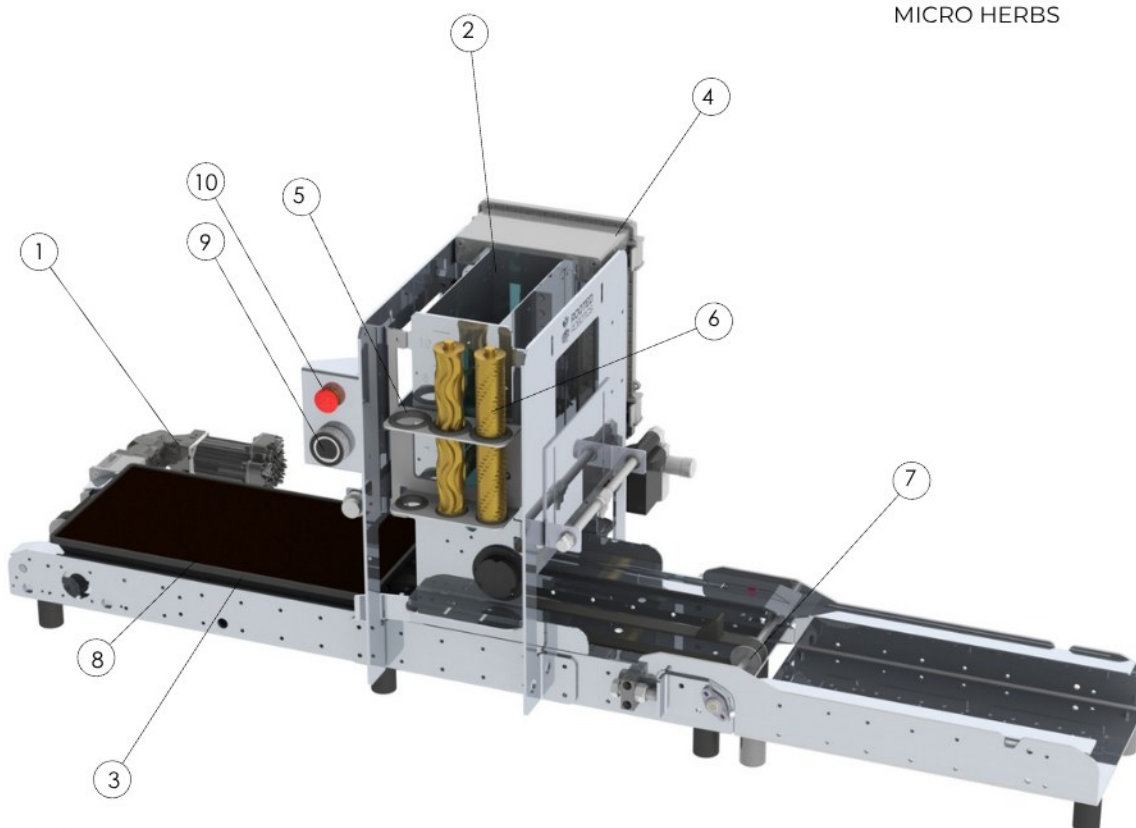
VOLTAGE	110V AC
PEAK AMPERAGE	20A
AVG. AMPERAGE	6A
AVG. POWER CONSUMPTION	660W

APPLICATIONS

MICROGREENS
BABY GREENS
MICRO HERBS

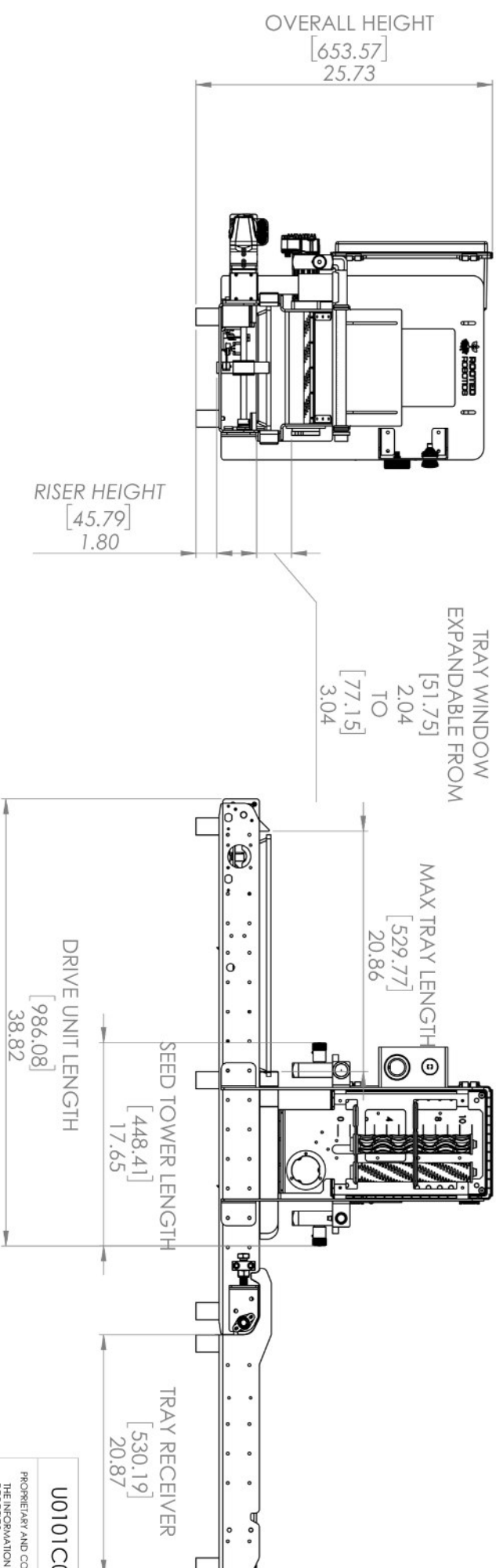
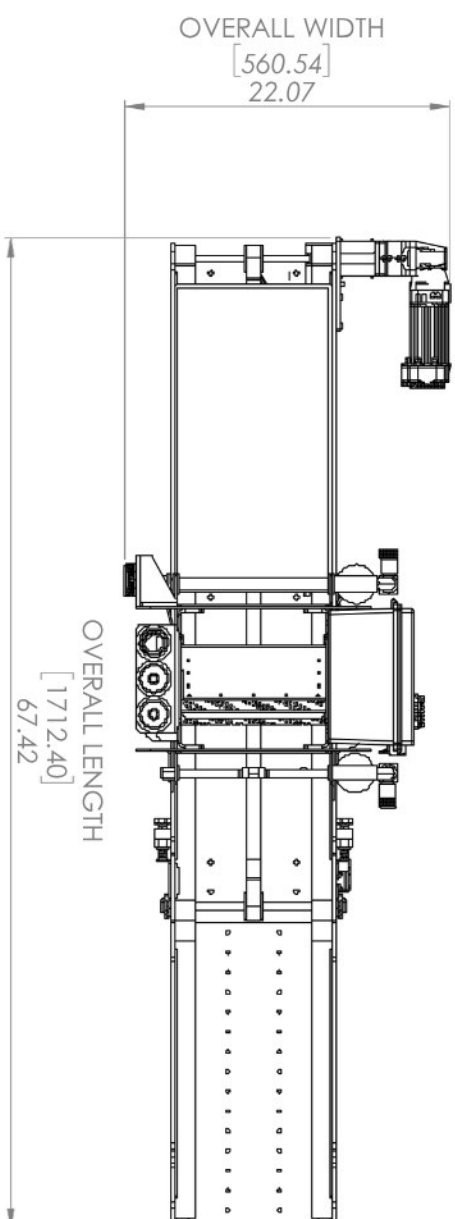
AVAILABLE ADD-ONS

PRE-SEED WATERING BAR
POST-SEED MISTING BAR
BOOSTER PUMP KIT (BUCKET FEED)



COMPONENTS

1	TABLETOP DRIVE UNIT
2	SEED HOPPER
3	TRAY RECEIVER
4	ELECTRONICS CONTROL BOX
5	ROLLER QUIVER
6	SEED ROLLERS
7	DRIVE BELT
8	TRAY SENSOR (UNDER TRAY)
9	SELECTOR DIAL
10	POWER/E-STOP



CE DECLARATION OF CONFORMITY

1. MANUFACTURER

Business Name:

URBAN FARMS INC.
Doing work as Rooted Robotics

Address:

5311 Western Ave STE 190
Boulder, CO 80301
United States of America

2. PERSON AUTHORIZED TO COMPILE TECHNICAL FILE

(Must be established in the European Community)

Name:

MAXIMILIAN KNIGHT

Address:

Rooted Robotics Inc.
5311 Western Ave STE 190
Boulder, CO 80301
United States of America

3. MACHINERY DESCRIPTION AND IDENTIFICATION

Generic Denomination:

Agricultural Tray Seeder Machine

Function:

Automated tabletop tray seeder of leafy green trays in controlled environment agriculture using dimpled drum under hopper and conveyor

Commercial Name:

Tray Seeder

Model:
Type:

Seeder

Serial Number:

[Serial Number]

Year of Manufacture:

2026

4. DECLARATION OF CONFORMITY

We, the undersigned, hereby declare under our sole responsibility that the machinery described above fulfills all the relevant provisions of the following EU Directives:

DIRECTIVE	TITLE
2006/42/EC	Machinery Directive
2014/30/EU	Electromagnetic Compatibility Directive

5. HARMONIZED STANDARDS APPLIED

STANDARD REFERENCE	TITLE
EN ISO 12100:2010	Safety of machinery - General principles for design - Risk assessment and risk reduction
EN 60204-1:2018	Safety of machinery - Electrical equipment of machines - Part 1: General requirements
EN ISO 13849-1:2023	Safety of machinery - Safety-related parts of control systems - Part 1: General principles for design
EN ISO 14120:2015	Safety of machinery - Guards - General requirements for the design and construction of fixed and movable guards
EN 55011	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement
EN 61000-6-2	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments
EN 60204-1 : 2 018	Safety of machinery - Electrical equipment of machines

6. CONFORMITY ASSESSMENT PROCEDURE

The conformity assessment was carried out in accordance with Annex VIII (Internal checks on the manufacture of machinery) of Directive 2006/42/EC.

Note: This machinery does not fall within the scope of Annex IV (machinery presenting particular hazards) as it is designed for harvesting leafy greens in controlled agricultural environments, not for working with wood, meat, or other materials listed in Annex IV.

7. TECHNICAL FILE REFERENCE

Technical File Reference:

[TF-RR-HARVESTER-001]

Technical File Location:

Rooted Robotics Inc., Westminster, CO

[EU Authorized Representative Address]

Retention Period:

10 years from last date of manufacture

8. PLACE AND DATE OF DECLARATION**Place:**

Boulder, Colorado, USA

Date:

17 February, 2026

10 years from last date of manufacture

9. AUTHORIZED SIGNATORY

Person empowered to draw up this declaration on behalf of the manufacturer:

Name:

Maximilian Knight

Position:

CEO / Founder

Signature:

This declaration relates exclusively to the machinery in the state in which it was placed on the market. Components added and/or operations carried out subsequently by the final user are not covered by this declaration.

The original EC Declaration of Conformity shall be retained for a period of at least 10 years from the last date of manufacture of the machinery, in accordance with Article 5(1)(e) of Directive 2006/42/EC.