

Dual Dry Goods Depositor

INSTRUCTIONS AND SPARE PARTS

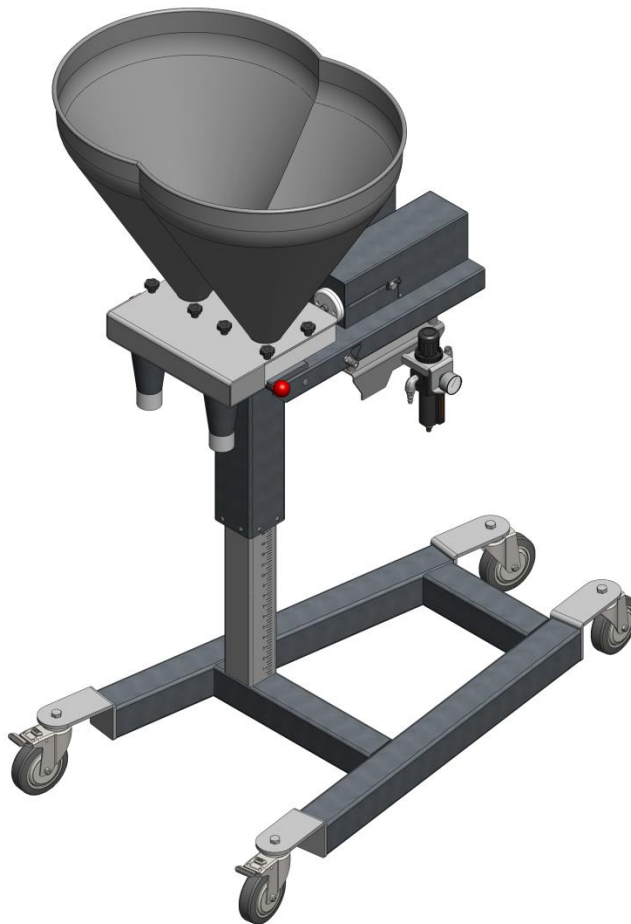


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Safety Instructions and Warnings



These safety instructions must be read prior to operating, sanitizing or servicing the equipment.

All machines have a risk of personal injury wherever moving parts are involved in their operation. UNIFILLER has taken all possible precautions to reduce and wherever possible eliminate the dangers associated with moving parts. Having all operators/maintenance staff of this equipment read and abide by the instructions in this manual will further reduce the risk of personal injury. All users must familiarize themselves with the warning decals located around the machinery.

Caution - the air lines on this machine are under high pressure. Severe injury could result if tampering or adjustments are made by non-qualified personal.

Operating Air pressure should not be adjusted to exceed 80 P.S.I. (551 kPa /5.52 Bar) on the Air regulator / Water filter pressure gauge.

Before cleaning, dismantling, or servicing the machine, turn air off and bleed pressure from the air supply prior to disconnecting airline. Isolate any other power sources, and then lock them out.

Safety guards or devices must not be removed or disabled by any personnel other than when locked out for service maintenance by a technician.

Keep fingers and hands away from all pinch points, mechanical moving parts, including the hopper inlet and deposit nozzle outlet.

Do not run product or water, with temperatures exceeding 140°F, (60°C), through the machine. For Product Temperatures that exceed 140°F, (60°C) up to 180°F, (82°C), please use HOT changeover parts on the machine. Contact Unifiller for details.

Before use, fully sanitize the machine. Dismantle and lubricate all the seals as per cleaning/sanitizing instructions in this manual after each use.

Before use ensure that the locks on the wheels are engaged.

For servicing or technical support please contact UNIFILLER directly or one of its authorized suppliers or dealers.

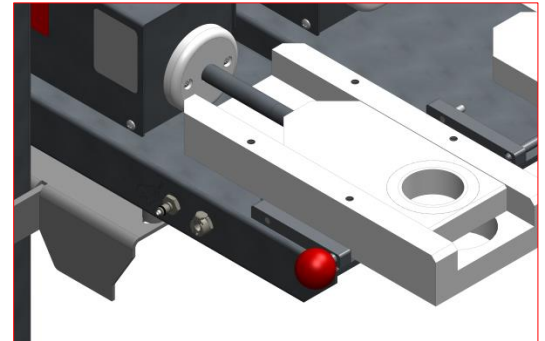


Unifiller Systems recommends the use of approved personal protection equipment when using this equipment.

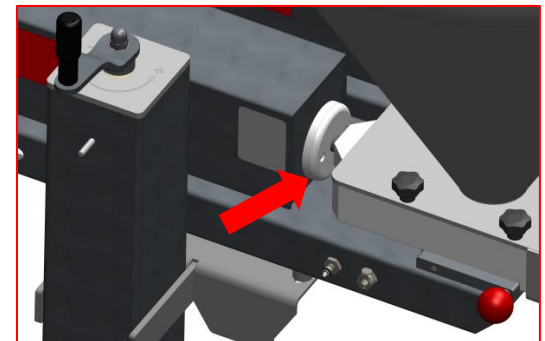
Dry Goods Depositor



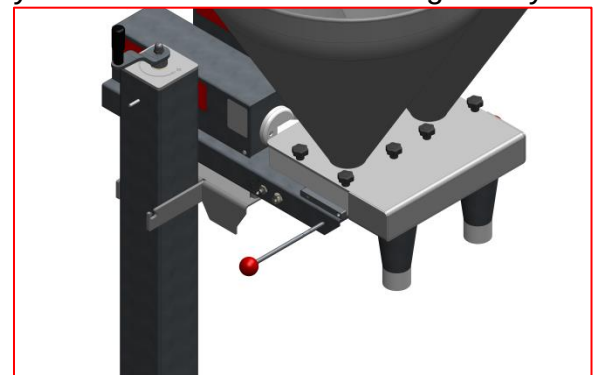
- Do not operate machine without the hopper assembly



- The indicated areas shown are potential pinch points. Do not place fingers near or in these areas.

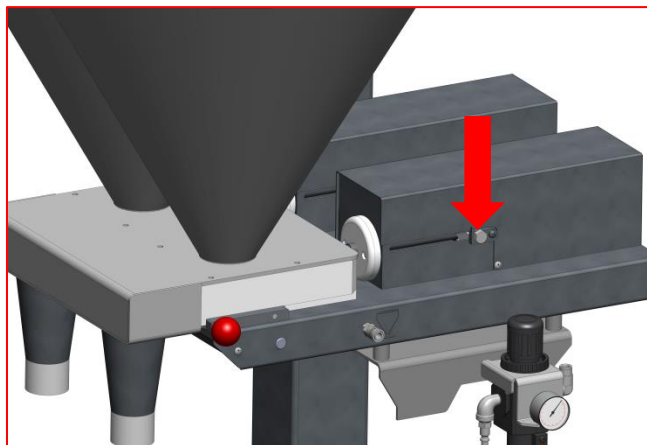


- During operation of the machine, do not remove the red safety pin as the hopper and product cylinder may fall off if action occurs during mid cycle.

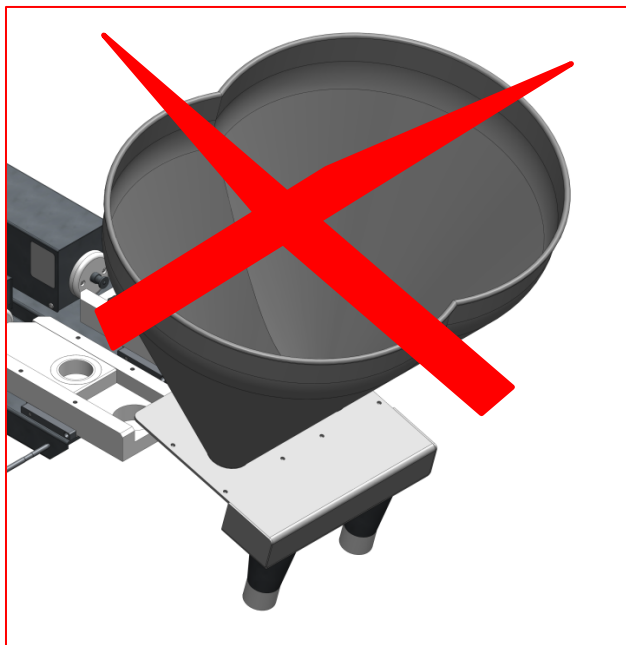




- Do not change the deposit stroke setting as the stroke is fixed for each specific drygoods machine



- Use caution when starting the machine as it may operate and move parts to their “Home” position, if it did not finish in its home position
- Do not attempt to remove the hopper from the equipment when full of product. Always empty the hopper of product prior to removal.



Introduction

Thank you for purchasing Unifiller Equipment. We are sure you will get years of trouble free use and excellent productivity from your new investment.

Please take a few minutes to read this manual and familiarize yourself with the layout of the controls, and the set up and operating procedure.

If you have any questions regarding the setting up, or operation of your equipment please contact us.

Contacting Unifiller

Manufacturer

Unifiller Systems Incorporated,
7621 Macdonald Road
Delta, B.C.
V4G 1N3

Telephone
Main: 604-940-2233
Toll Free: 1-888-733-8444

Fax : 604-677-5844
Email: parts@unifiller.com or service@unifiller.com

OR

Contact your local authorized Unifiller dealer.

Please see our website for dealer contact information @. www.unifiller.com

Please remember to supply your company name, telephone number, email and a contact name when ordering parts.

Machine Description

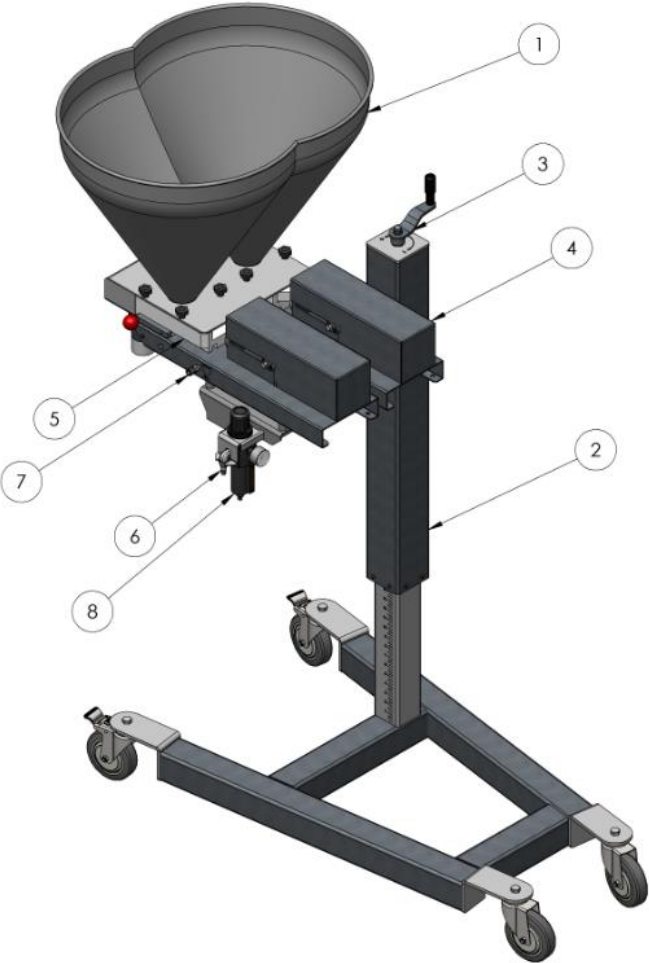
The Dry Goods Depositor is an air operated machine intended to accurately deposit non-liquid products.

Due to the potential for dry goods product to bridge inside the hopper it is recommended that this machine is paired, and run simultaneously with a Dry Goods Agitator.

Intended Uses	Non Intended Uses
Non sticky dry goods e.g. granola, cereal, uncooked rice	Liquids
	Batters, icings, custards, etc. Anything that can be squeezed through a pastry bag.
	Chocolate or coconut shavings
	Dried Fruit

Dry Goods Depositor

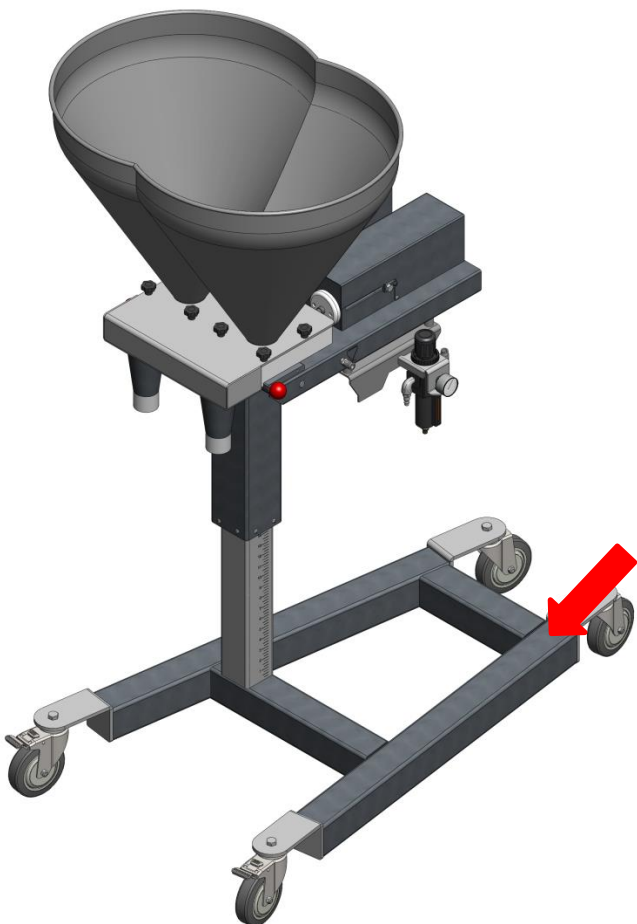
Item	Description
1	14 Gallon Hopper
2	Fine Adjustment Frame
3	Height Adjustment Handle
4	Dry Goods Base
5	Dry Goods Depositing Block
6	Air Connection
7	Hopper Safety
8	Air Regulator / Filter



Serial Number location

Quote this number when ordering spare parts.

It is located as shown, stamped into the side of the base.



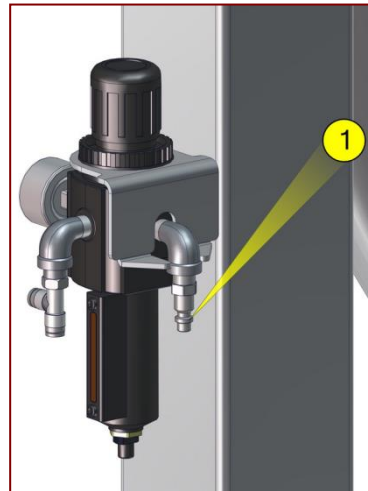
Power Requirements

Air Requirements

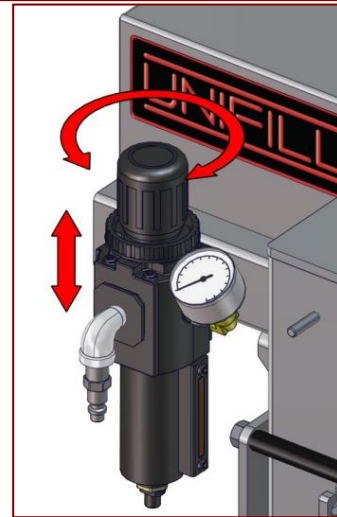
Important:

- It is recommended that the compressed air supplied to the depositor be run through an air dryer before connecting to the machine. Please contact Unifiller for details.
- Use an airline with a minimum inside diameter of 3/8" (10mm)

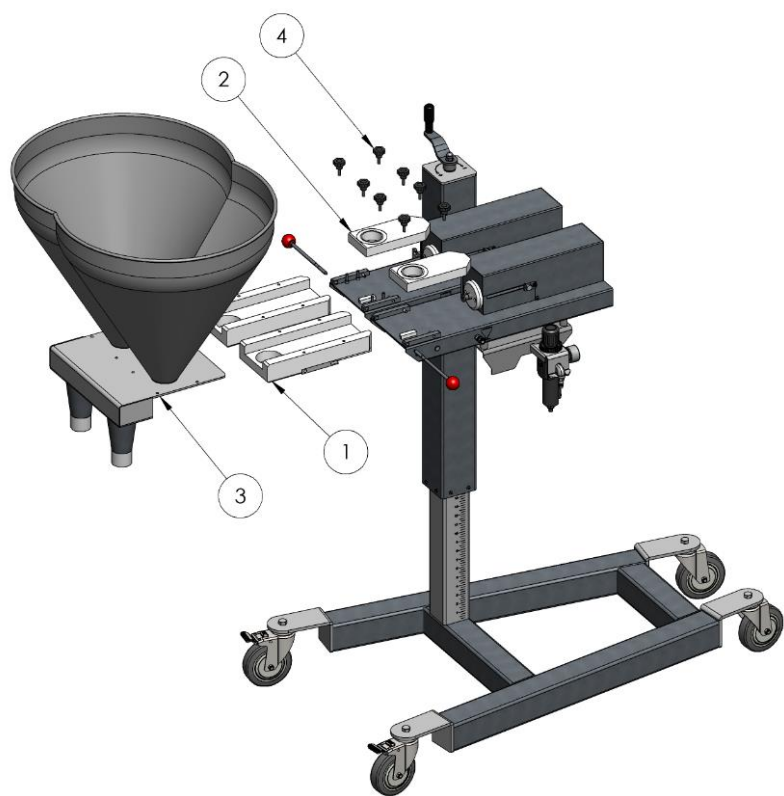
Connect your supply air hose that comes from your compressor (not supplied) to the quick connector (1) which is located on the side of the base of the Dry Goods Depositor.



Set the air pressure gauge on the machine to 80 p.s.i. (6 Bar) by pulling up on the knob adjusting the air pressure, and then pushing the knob down to lock it.



Assembly and Operation



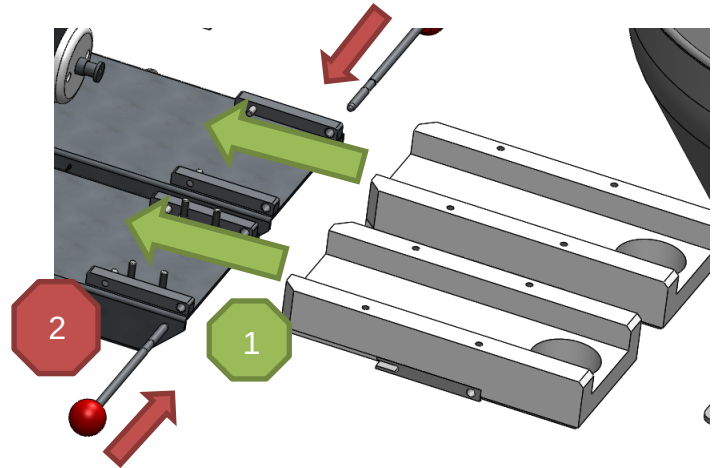
Item	Description
1	Dry Goods Block
2	Dry Goods Insert
3	Dry Goods Block Cover
4	Cover Handles
5	Hopper

NOTE:
Before filling the hopper, ensure the machine is assembled correctly with seals in place, and that all clamps are tightened.

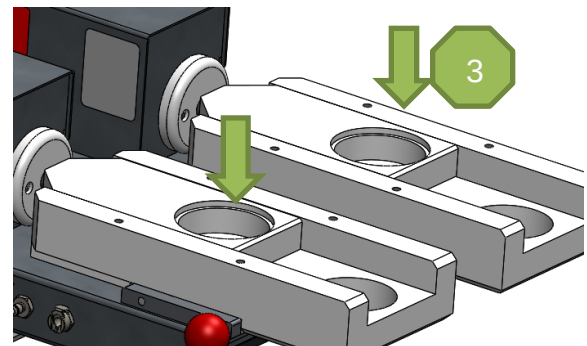
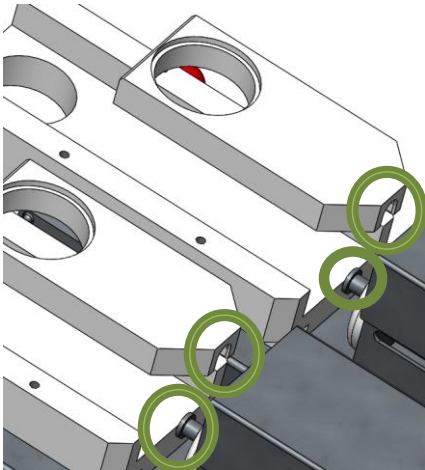
Assembly of the Dry Goods Block

Step 1: Slide the Dry Goods Block into place on the end of the base.

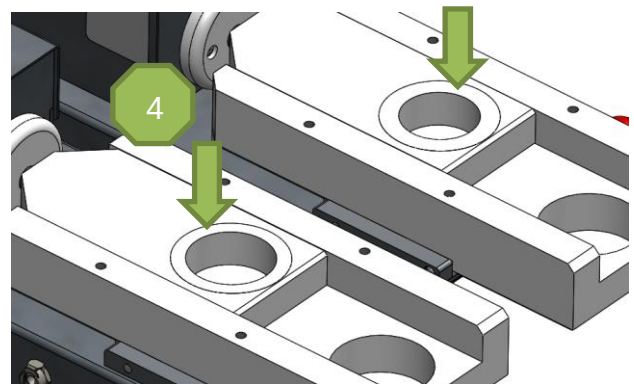
Step 2: Insert the red handled block pin through the base and the block.



Step 3: Snap the Dry Goods Insert into place on the end of the actuator rod.

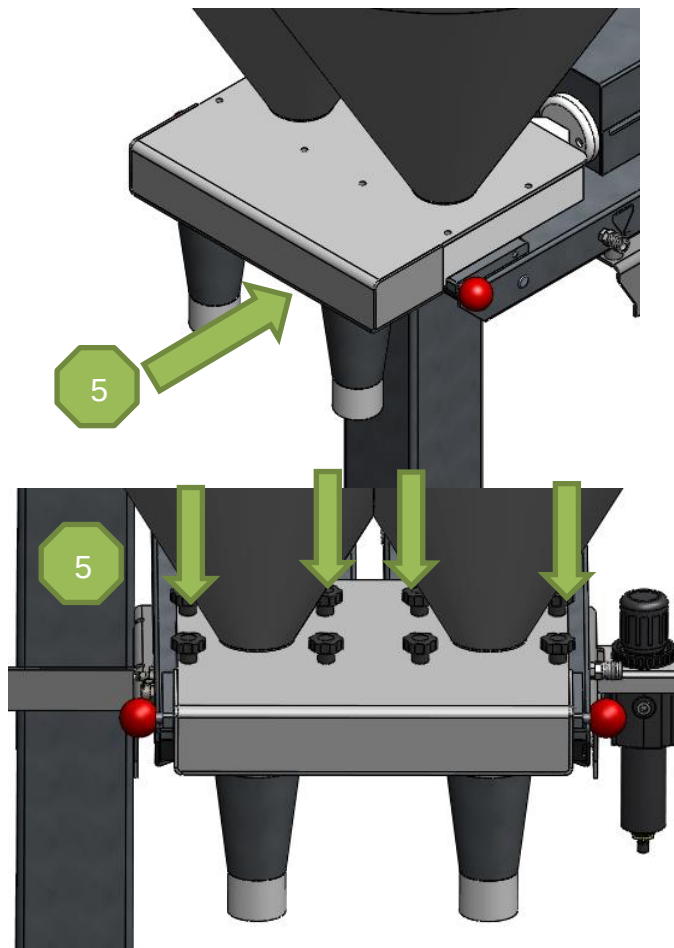


Step 4: Insert the desired portioning cup into the dry goods insert block (62g cup or 51g cup)



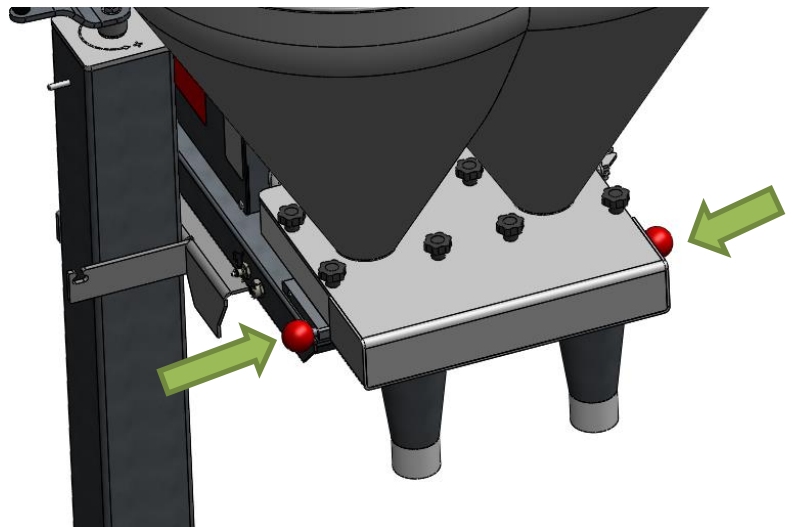
Step 5: Slide the Dry Goods Cover over the Dry Goods Block. The eight holes on the cover should be aligned with the threaded holes in the block.

Step 5: Thread the handles into the holes through the block. Hand-tighten until the plastic handles are flush and tight against the cover.

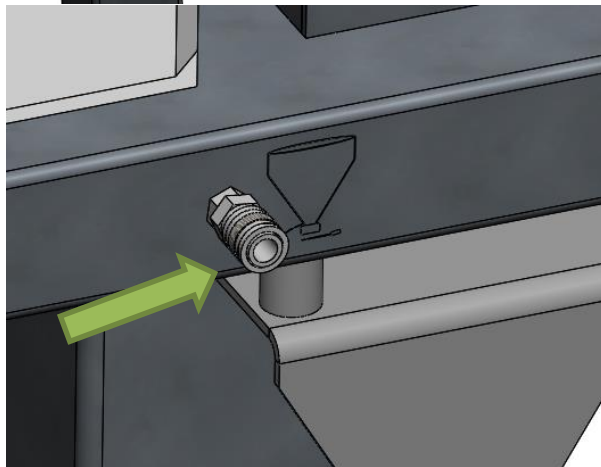


Important Safety Note:

The machine will not operate until the Red handled block pins are fully inserted.



The Dual Dry Goods machine will not operate until the Hopper Safety plug (attached to the hopper) is connected to the quick disconnect on the side of the base.

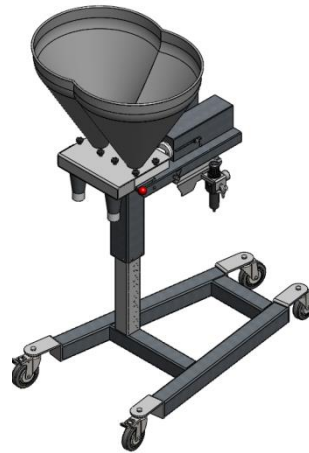


Priming/Preparing to Deposit

Before using the depositor, priming must be carried out first. This is the procedure used to fill the depositing chamber with product mix to ensure the first few deposits are consistent.

Start Up and Operating

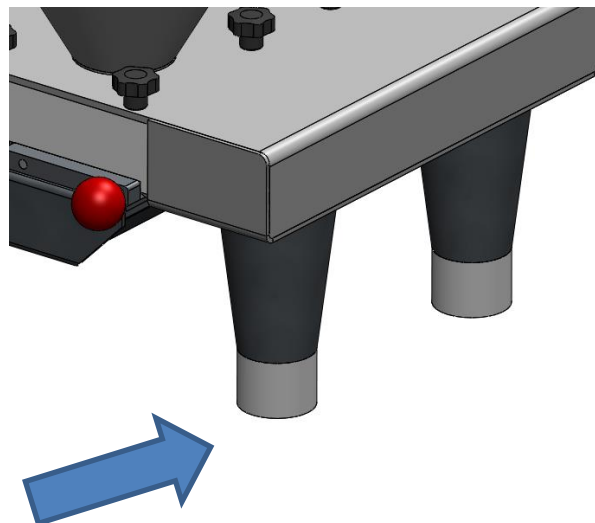
Step 1: Assemble the machine as shown above.



Step 2: Connect the signal on the Foot Pedal to the side of the base as shown.

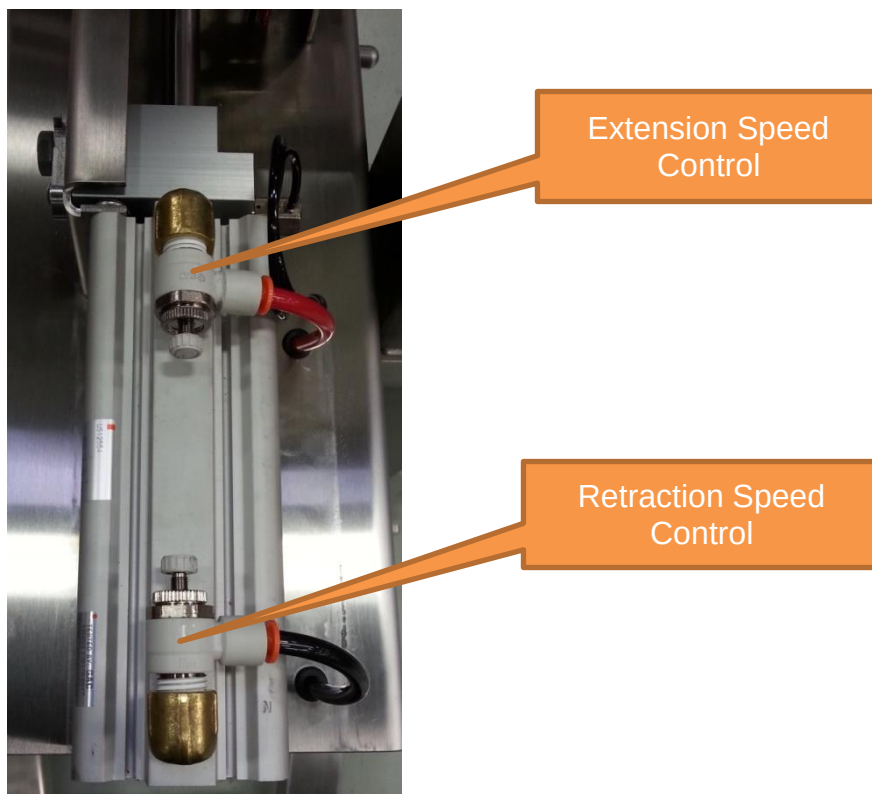


Step 4: Place a tray beneath the outlet of the machine to catch the product.



Deposit Speed Control

The deposit speed controls the speed at which the product mix is placed into the target area. The speed control can only be changed by removing the cover. The deposit speed only needs to be set once for the product.



Working with the Depositor

Dry goods products may bridge inside the hopper if not properly agitated. We recommend all Dry Goods Machines be used in conjunction with a Dry Goods Agitator to maintain optimal performance and consistent deposits.

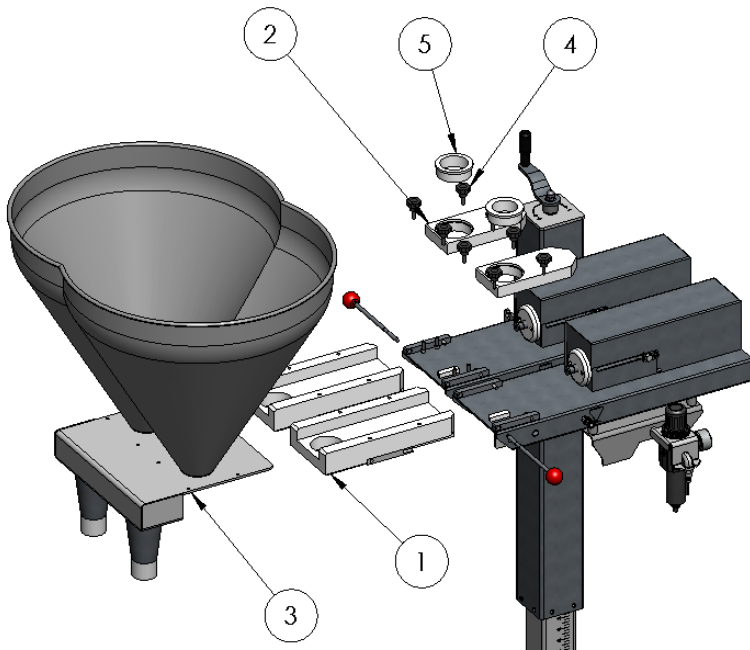
New batch: If the next type of product mix is compatible with the previous one, simply fill the hopper with the new product and discharge 3 or 4 deposits into a bowl and add it back into the hopper. Then check weight before continuing.

Disassembly for Sanitizing

General

- Sanitizing requires that the machine must be disassembled
- Turn off the air and remove the supply line from the machine
- Scrape down the inside of the hopper
- Reconnect the supply line and turn the air on
- Deposit until nothing more comes out of the outlet
- Turn off the air and disconnect the air supply

Remove the following components for cleaning in the reverse order shown in Assembly:



Item	Description
1	Dry Goods Block
2	Dry Goods Insert
3	Dry Goods Hopper Assembly Cover
4	Cover Handles
5	Portion inserts

Cleaning and Sanitizing

Warnings

Abrasive materials may damage finish of this equipment.

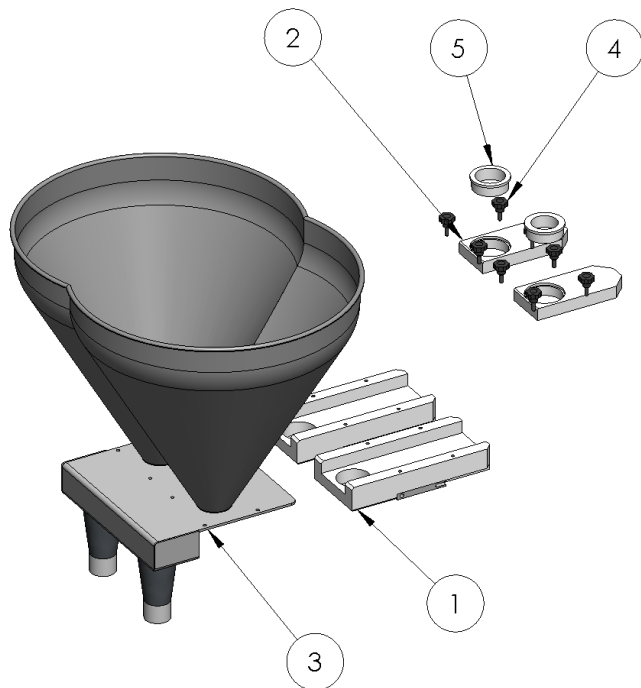
Use of the following types of cleaning agents is not acceptable and may cause damage to the Machinery that the manufacturer cannot be held responsible for.

Check specifications and warnings on labels of all cleaning products prior to use.

- Cleaning agents containing chlorine or chlorides may cause spotting.
- Acidic or alkaline solutions can cause corrosive reactions between dissimilar metals as are found in this machine such as bearing housings and electrical conduit.
- Solvent, Aromatic or chemically reacting solutions may cause damage to synthetic materials such as rubber contained in the electrical seals or seals of mechanical drive components.

Cleaning

Clean and sanitize the parts shown, and any attachment parts.



Item	Description
1	Dry Goods Block
2	Dry Goods Insert
3	Dry Goods Hopper Assembly Cover
4	Cover Handles
5	Portion inserts

- Mix 1 to 4 ounces (30-120ml) of *Zep F.S. PROCESS CLEANER* (green) per gallon (4ltr) of water. Immerse the parts in the solution. Clean all food residues with a cloth or a non-metallic scrubbing pad/brush. Rinse thoroughly with potable water. For the hopper, spray the same solution on to the Hopper surface.

Sanitizing

- Mix 1 ¼ oz's (120ml) of *Zep F.S. SUPERMARKET SANITIZER* (red) per gallon (4ltr) of water. Immerse all parts that were previously in the cleaner in the new solution for 1-2 minutes. Rinse thoroughly with potable water.

Re Assembly

Re Assembly

- Inspect all components for damage or wear before reassembly. Do not use grease to lubricate the sliding Delrin blocks. Reassemble in the components as seen in the Assembly section of this manual.
- Reconnect all airlines.

The rest of the machine can be wiped down or washed with a mild detergent. Maintenance

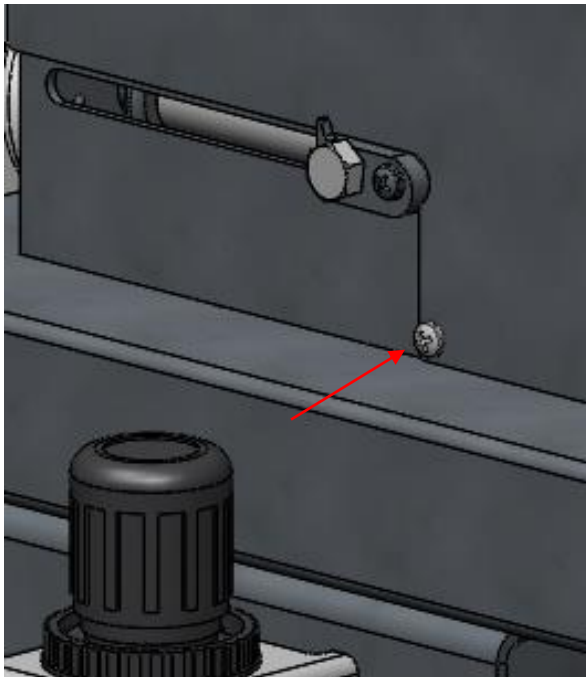
Maintenance

Turn air off, and remove air supply line from machine before any maintenance is performed.

Top Cover Locking

IMPORTANT SAFETY NOTES:

The top covers on all Dry Goods Depositors are locked in place with two screws as shown in the picture below. Maintenance personnel will require a Phillips screwdriver to open the cover. The air must be shut off before opening this cover.



O Ring Care

Daily

Inspect moving components for wear or damage.

Signs of wear include: Flatness, Abrasions, Cracks, and Cuts

Weekly

With the air disconnected.

Check the air filter/regulator bowl and if necessary clean the bowl and empty any accumulated water.

3 Months

With the air disconnected.

Check the condition of the White filter in the Air regulator / Water filter, and replace if contaminated.

Preventative Maintenance

Unifiller Systems distinguishes between two levels of care for equipment

Machine Owner / Operator Care

The operators of the machines are typically the “owners”, typically a person working with them. They depend on the machine to function reliably to be able to meet their production requirements. They most often know the machine best and can predict when something changes. The owners also typically take care of the basic maintenance and upkeep of the machines.

The Spare Parts Kits supplied with the machines are intended for the owners of the machines and are typically kept near the machines in the production area to have easy access to the seals and other wear parts.



Preventative Maintenance Kit

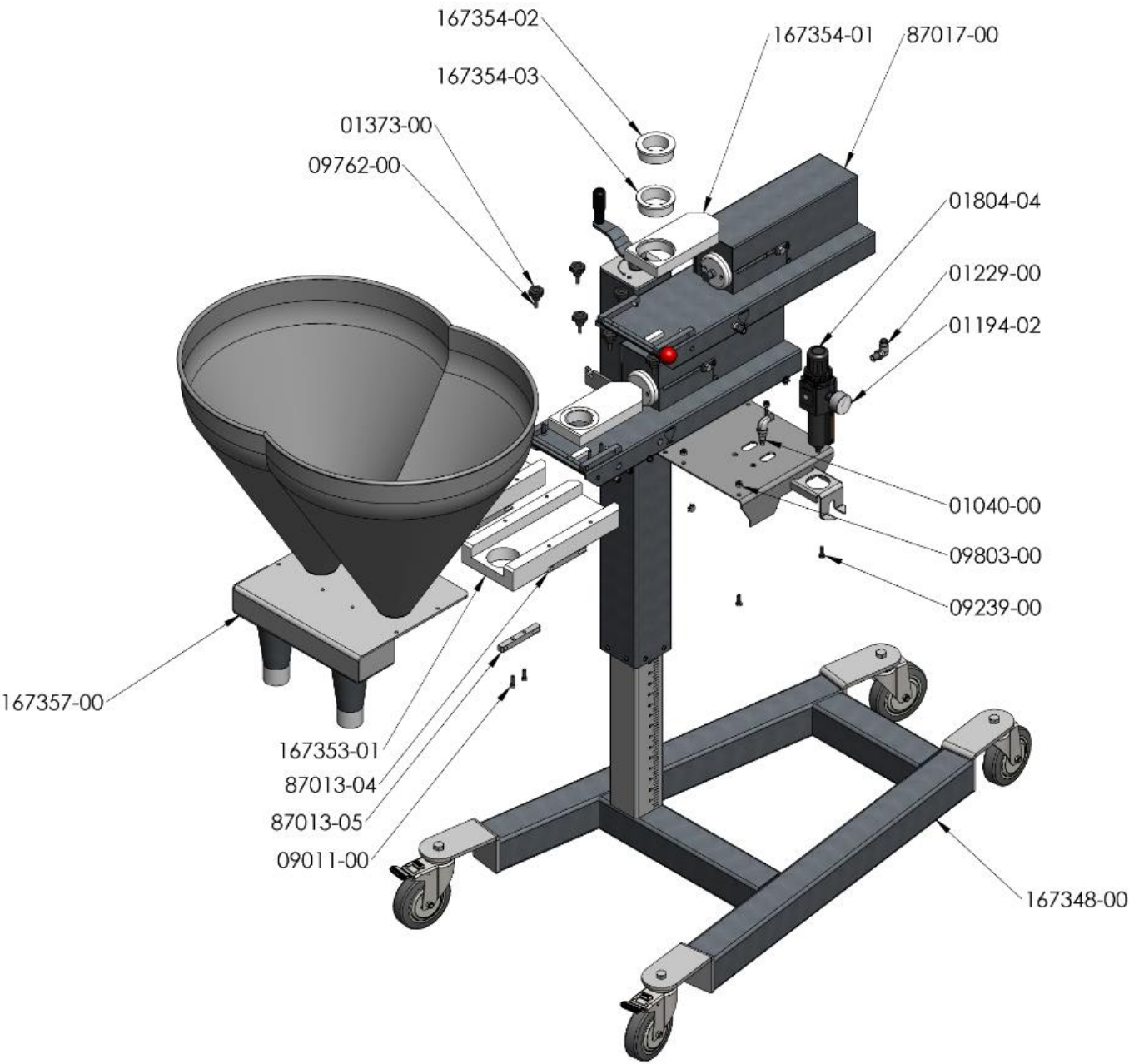
Unifiller also offers Preventative Maintenance Kits for your machines. They are intended for the maintenance department and are typically kept in their workshop. The kits contain all parts for typical repairs and preventative maintenance. They also contain a USB thumb drive, that contains the manual and other useful information.



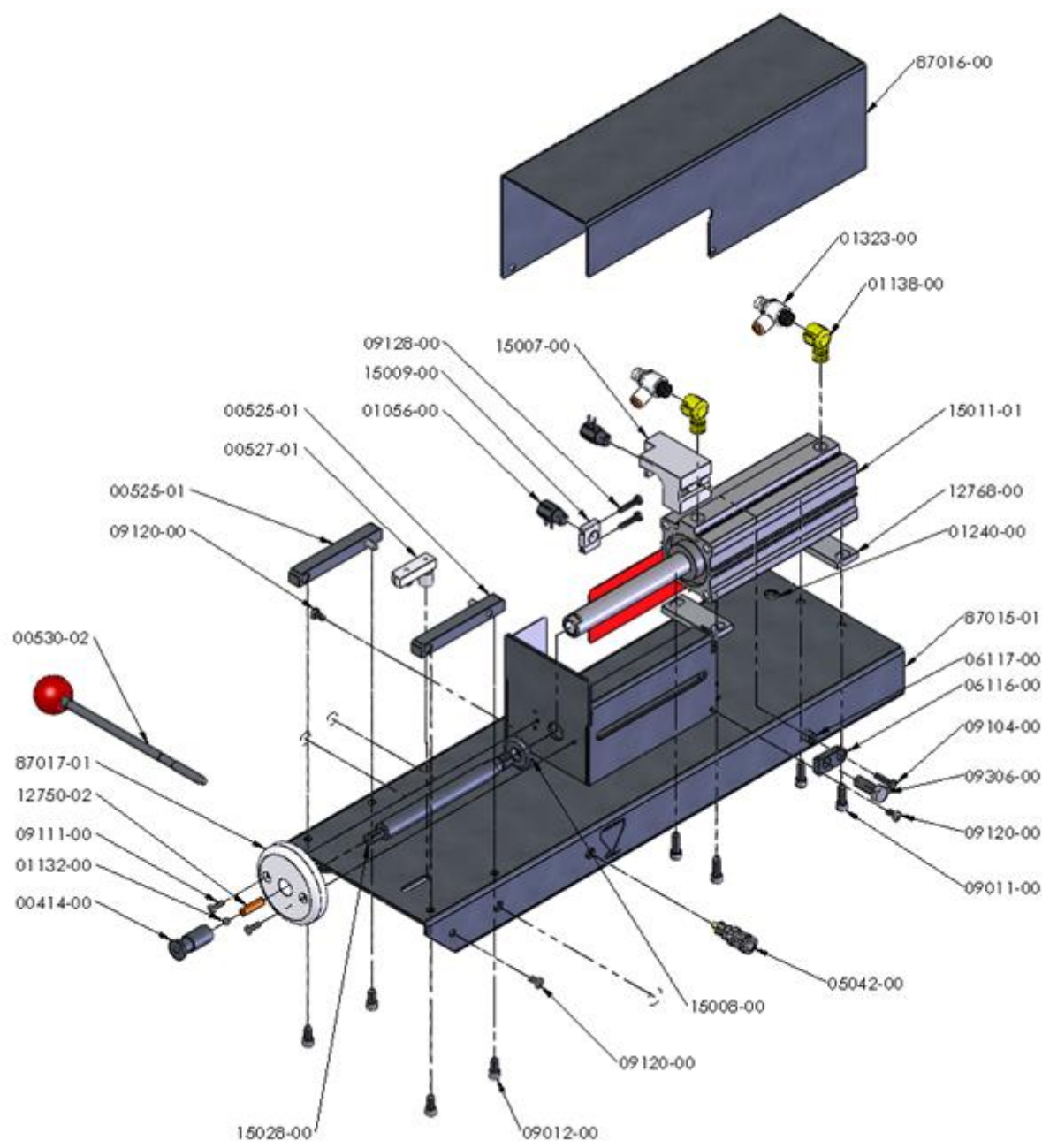
The Preventative Maintenance Kits offer a simple and cost effective solution for keeping the machine in top shape.

Contact parts@unifiller.com with the serial number of your machine to order a Preventative Maintenance Kit or spare parts.

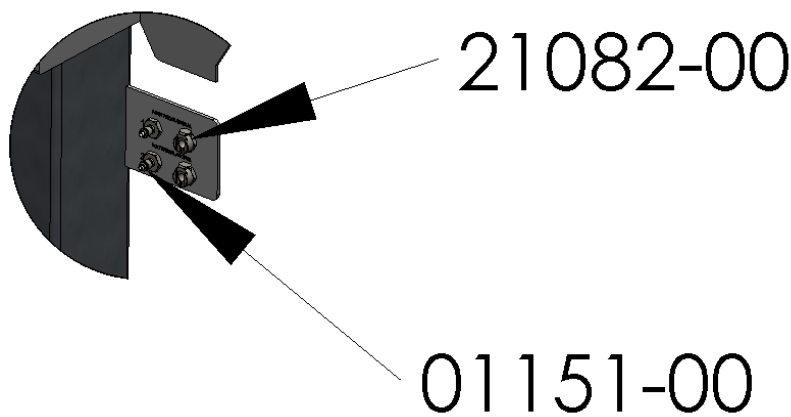
Parts Identification



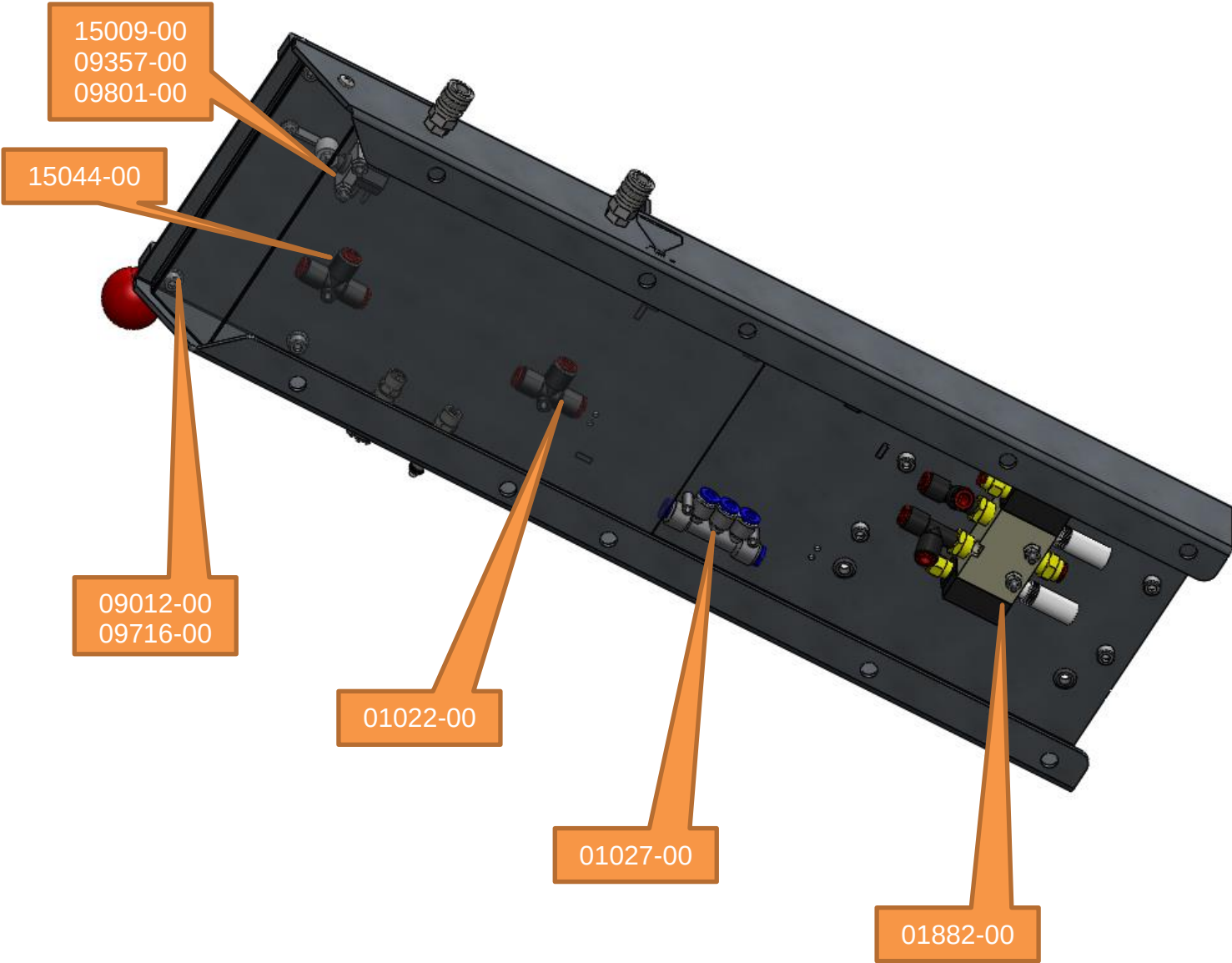
Depositor



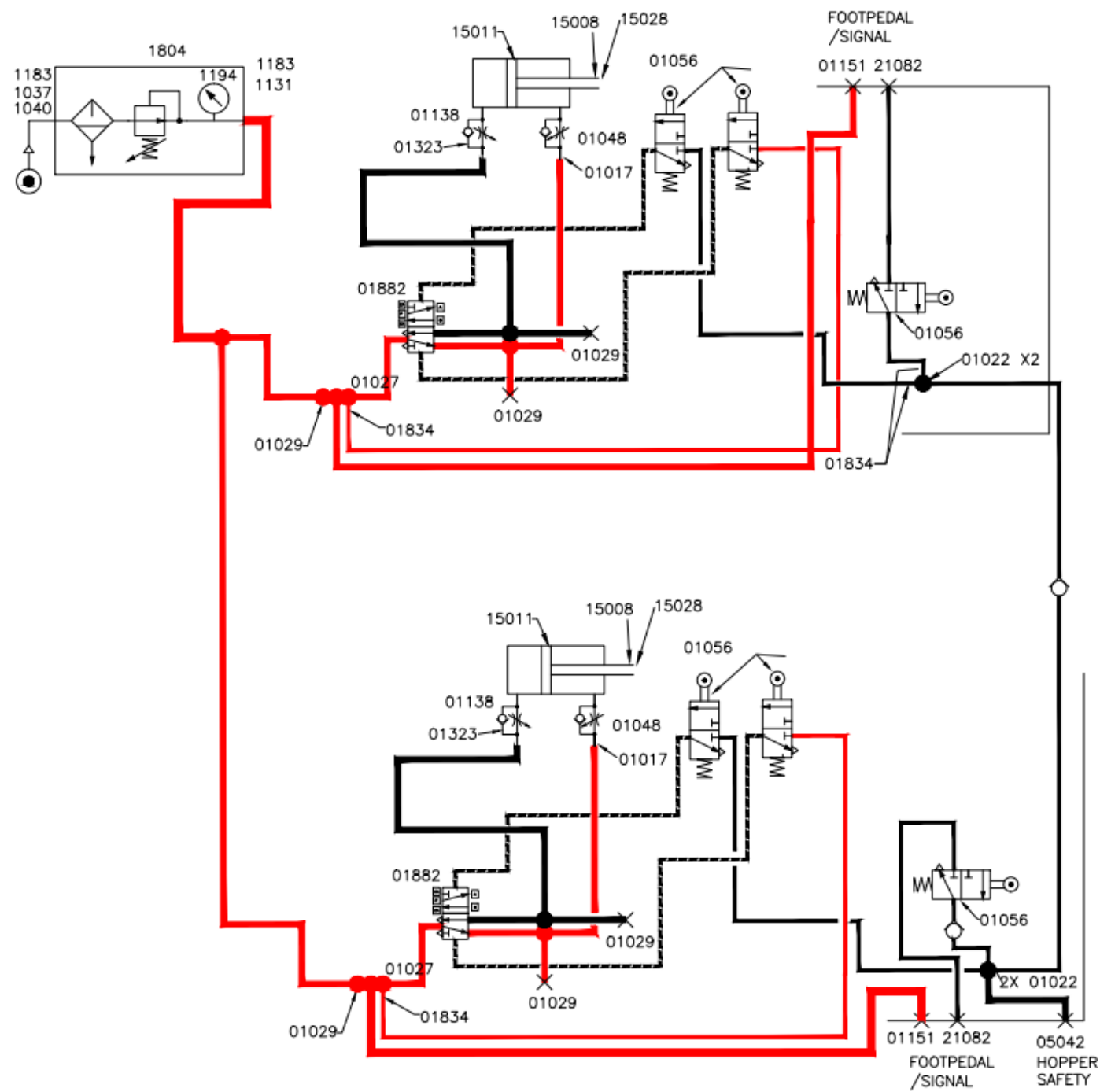
Signal Connections



Underside Pneumatic Components



Pneumatic Schematics



Sound Level Measurement

All sound level readings taken at 1m from the front of the machine and 1.6m from the floor level. All readings are “A” weighted emission sound pressure level.

Machine	Sound level dB
Compact Depositor	79.4
Uni1000i	72.9
Pro 1000i	72.9
Pro 2000	78.7
Spot	87.5
XL2	81
COM Servo	72.9
Deco Mate	78.0
Hopper Topper	72.0
Hopper Topper Max	82.5
Multi	87
iSpot	87.5
ELF	79.4

TROUBLE SHOOTING

Problem	Cause	Remedy
Machine will not cycle	1. Low air pressure. 2. Air on/off slider valve (pt#1037) in down or mid position. 3. Pilot valve (pt#1056) has loosened from its mounting bracket or has failed. 4. Incomplete piston stroke caused by solid object in block. 5. Kinked air lines	1. Check air supply for correct operation. Also check pressure regulator setting. 2. Move slider valve on the air regulator to the "On" position. 3. Check the two pilot valves located under the main cover and one under the top frame to ensure that they are securely fixed in their mounting brackets. If failed, replace. 4. Disassemble and check for obstruction. 5. Check air lines to make sure they are not kinked.
Inconsistent deposits	1. Hopper almost empty. 2. Product inconsistent. 3. Fluctuating air supply pressure. 4. Water build-up in air lines and valves.	1. Fill hopper. 2. Check product consistency prior to filling hopper. 3. Check setting of air regulator/water filter. 4. Drain air compressor regularly to remove build-up of water.
Machine cycles but will not deposit	1. Air quick connects are not secure. 2. Product bridging.	1. Check that the beveled seal is in place and is not damaged. Re tighten hopper nut. 2. Check that all air connections are securely attached. 3. Jostle product loose (Agitator will prevent product from bridging). Turn off and disconnect air before attempting to loosen product.