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End-of-Life Solutions for Over 50 Years*

Operation and Maintenance Manual

SEM Model 0205NANO



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For service, parts, and customer support, contact us:

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Safety

Your new electronic media crusher incorporates powerful, heavy duty cutting mechanisms. Serious and permanent injury may result if proper precautions are not followed.

1. This equipment should never be operated by children or individuals that are untrained or incapable of understanding these safety precautions.
2. Do not reach into the feed opening for any reason. Never insert fingers, hands or objects not meant to be shredded into the feed opening.
3. Do not operate this equipment with long hair, a necktie, loose clothing, or jewelry which may activate a photoelectric on/off switch and/or be pulled into the shredder.
4. Maintenance or repair of this equipment should be performed only by trained, authorized service personnel.
5. Always disconnect electrical power (unplug) before providing any maintenance to the 0205NANO.

WARNING: Do not eat or drink near the unit. Accidental exposure of shredded batteries to moisture could cause fire.

Safety features should be checked after 500 drives or 10 hours of use. Perform each safety check below. If the you do not get the result specified, contact SEM Service/Support.

1. Plug in to proper rated receptacle and plug power cord into unit. Wait five seconds to see the user screen.
2. Open the waste bin door. **DOOR OPEN** icon should appear in display. Close waste bin door.
3. Remove securing screw and attempt to open the unjam door. The unjam door should be unable to be opened (internally locked). Close unjam door and re-install securing screw.
4. Push the start button on display. After 4-5 seconds of running, open waste bin door Motor should brake and stop in ~1 second (listen audibly).

Introduction

The SEM 0205NANO is a robustly designed unit and incorporates hardened steel cutting shafts for sharpness longevity. It also features a touch screen LCD interface for ease of use and extended capability and is capable of running on 120V 60Hz.

Items and Packaging

The SEM 0205NANO package includes the following items:

- 1 SEM 0205NANO Electronic Media Destroyer
- 1 metal waste bin (MPN: 0205GBIN)
- 3 plastic bags for waste bin
- 1 U.S. style cord (NEMA 5-20P to IEC60320-C19) for use with 120V 60Hz
- 1 Unjam access door 5/32" security Allen wrench

NOTE: A 230V 50Hz version is available with the CE model.

NOTE: Some pictures in this manual may have a different color than the model received based on production year.

Unpacking

Upon receipt of your SEM 0205NANO, be sure to inspect the unit for damage and note any such items on the Bill of Lading, and contact SEM customer service. Retain packaging for at least 90 days.

1. Cut wrapping and straps. Remove ramps and any items strapped on top of the package. Remove the cardboard and foam top.
2. Remove the four bolts holding the front board in place using a 9/16" socket and place the ramps into the holes in the front. It may help to step on them so they are fully seated
3. Be mindful not to stand in the path of the machine and have someone stand on each side of the 0205NANO. Slide the 0205NANO down the ramps, with each person on both sides to ensure it does not tip over.
4. Replace the four bolts holding the front board in place using a 9/16" socket. Place the ramps inside the frame so they're leaning on each other and place the foam and cardboard sleeve over all of it. Store packaging for 90 days.
5. Open the front door and remove the contents of the bin, except for the presently installed bag. Keep items with unit.
6. Move unit to its final location. Once there, apply the two front caster brakes by stepping on the brake lever.

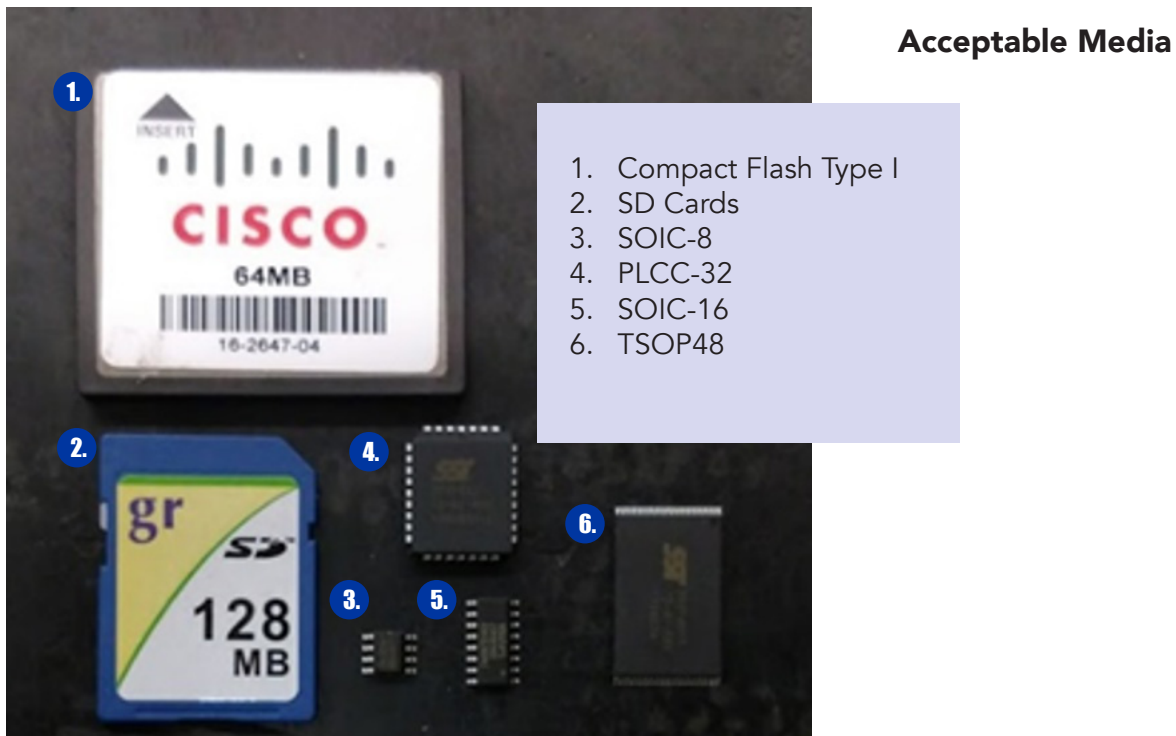
Operation

The SEM 0205NANO Electronic Media Destroyer has been designed for secure destruction of the following small electronic devices: compact flash type I, full-size SD card, micro SD card, device "Sheliak", PLCC-32 chip, SOIC-8 chip, SOIC-16 chip, and TSOP48 chip. If destroying solid-state media larger than the aforementioned items, use the 0205MICRO.

Acceptable Media

The 0205NANO was designed and tested specifically for the following devices. No devices except those specified should be inserted into the unit.

WARNING: Attempting to insert devices not listed below may cause damage to the unit and/or void the warranty.



Set Up

Before using the unit, ensure that the waste bin and a bag have been installed in the unit. Open waste bin door and pull waste bin forward. Remove power cord and extra waste bin bags. Power up unit using power cord. Supplied/included power cable requires 120V 60Hz/20A receptacle.


Powering On

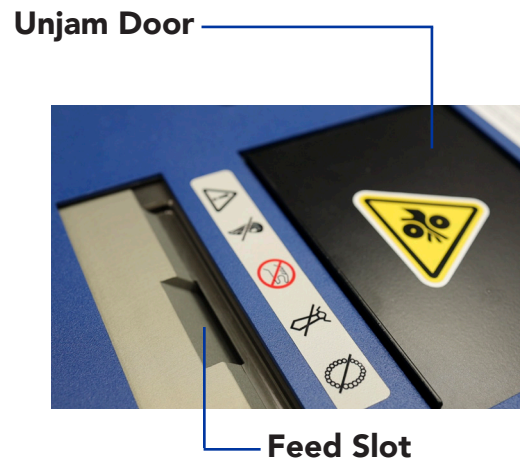
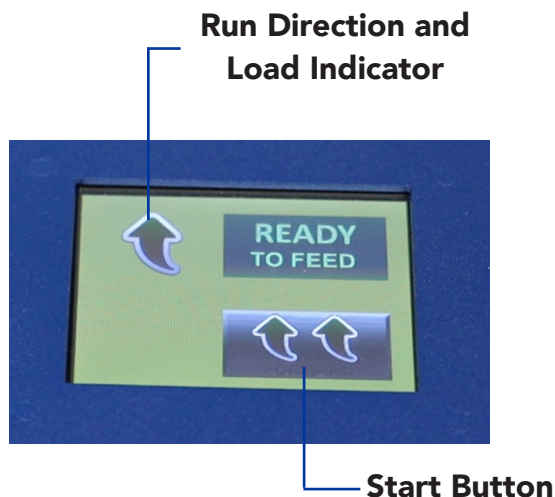
Upon powering up, the display screen will immediately illuminate. The initial SEM splash screen will appear for several seconds.

When the SEM splash screen disappears, the main user screen will now be displayed. The unit is now ready for use.




Feeding Media

- Media may be fed any time  is displayed.
- Feed media into feed slot.
- Unit will turn on and automatically run.
- Media may be fed continuously. Unit will continue to run automatically.
- The unit can also be started manually using the *START* button icon.



Continuous Running: The unit can be manually run for a longer duration.

- Touch and hold the **START** button until the **STOP** symbol appears.
- The unit will run continuously for an elapsed time period.
- Touch the  symbol anytime to stop the unit.

Interruptions

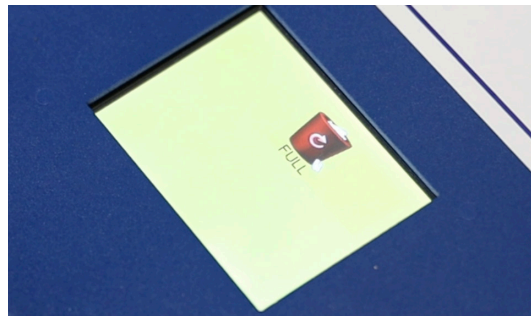
Never feed media while  is displayed.

The **DOOR** symbol indicates waste bin door or unjam door is open.

The **BIN FULL** symbol indicates waste bin is full and needs to be emptied.



DOOR Symbol



BIN FULL Symbol

NOTE: The **CONTINUE** button will also appear any time the waste bin door or unjam door is opened.

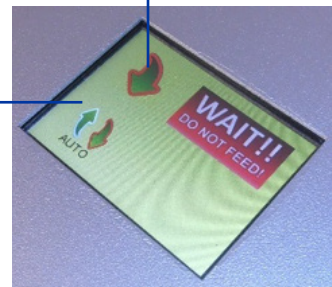
The unit is designed with a braking feature that will bring the cutting head to a stop quickly if the waste bin door or unjam door is opened. This is an added safety feature that reduces the risk of injury to the user if the unit is used improperly.

Jams

If the load is too great for media to pass through the unit, the **AUTO** unjam symbol will appear.

Run Direction Indicator (Reverse)

AUTO Unjam Symbol



Unit will automatically **REVERSE** and then run **FORWARD** again to try to clear the jam.

If the jam does not clear after three attempts, the unit will show the **JAM** icon telling the user that the unit remains jammed. The **OPEN ACCESS DOOR TO CLEAR JAM** icon is displayed instructing the user to open the unjam access door and remove any media from the unit.

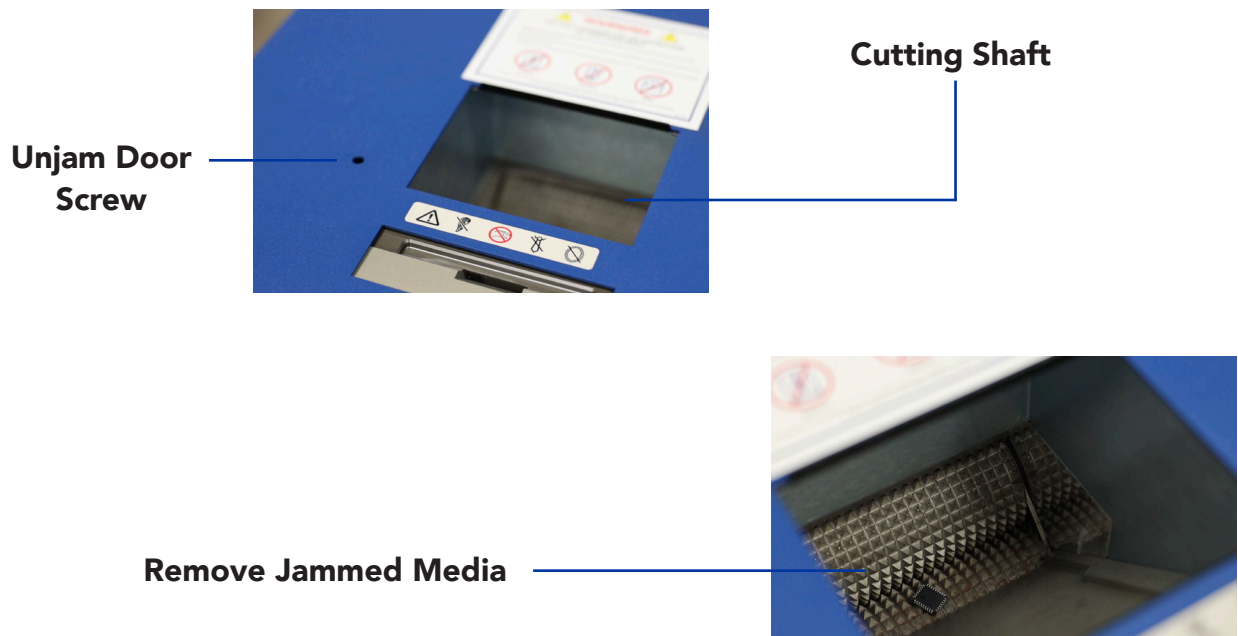
The unjam door screw will need to be removed to allow the unjam door to open. A special tamper-proof 5/32" Allen wrench will be required to remove it.

The unit is equipped with safety sensors to disallow operation while the unjam door is open. However, still always de-energize the unit by unplugging the power cord.



After unplugging the unit:

- Using a pair of pliers, reach into the cutting head and manually pull out the jammed material. **CAUTION:** partially shredded material may be sharp. SEM recommends cut resistant gloves.
 - NEVER REACH INTO THE UNIT WITH YOUR HAND.
 - NEVER PLACE YOUR HAND NEAR THE CUTTING SHAFT.
- Close the unjam door and replace the screw. This screw **MUST** remain in place while the unit is operational. It is a safety guard.
- After clearing a jam and replacing unjam door screw, plug power cord into unit.

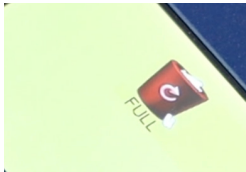


Power Saver Mode

If the unit is not used and the LCD interface display is untouched for several minutes, the unit will go into low power mode and the display will revert to the SEM splash screen with a dimmed screen. If the unit is further untouched for several more minutes, the screen will turn fully black. In either mode the unit may be put back into full power mode by simply pressing anywhere on the display, activating any of its photo-sensors, or opening and closing the door.

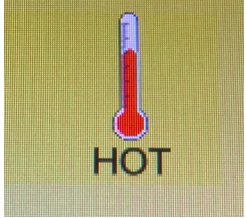
Maintenance

Waste Bin Full



If the unit becomes full of waste, the **FULL** indicator will appear. Remove the waste bin bag and install a new one.

Overheat Sensor



The unit is equipped with a thermal switch for safety to ensure that the motor does not overheat. If the unit is run continuously for longer than one hour, the switch will engage and disallow the unit to run unless the temperature has dropped to safe levels. If this occurs, the **HOT** indicator will appear and the user must wait for it to automatically reset.

Service Needed Symbol



If the unit encounters many errors or an unsafe condition is detected, the **SERVICE NEEDED** screen and symbol is displayed. If this occurs, please contact SEM customer support.

Important: If the **SERVICE NEEDED** symbol is displayed, there will be a number displayed along with it. Please record this number as it will help identify the cause of the fault.

Contact and Accessories

Customer Service: 508.366.1488 or service@semshred.com

Two to three preventive maintenance calls per year are recommended. Only authorized, SEM trained service personnel should service the shredder.

Part Number	Description
640ASB0202	Case of 50 Anti-Static Waste Collection Bags
EMD500018	Spare Waste Collection Boxes
4300202230PC	European Power Cord for 230V @ 50 Hz
4300202120PC	US Power Cord for 120V @ 60 Hz
0205KEY	Unjam Door Wrench for 0205



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