

# Information End-of-Life Solutions

A RESOURCE GUIDE



2018



Sanitization and physical destruction solutions for all types of data storage media including hard drives, solid state devices, optical media, paper, cell phones, tablets, key tape, and thumb drives.

[www.semshred.com](http://www.semshred.com)



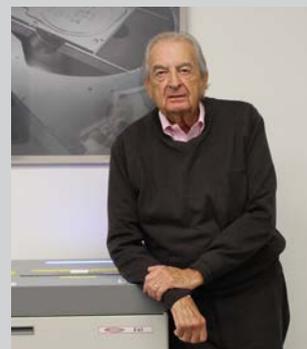
**Global Leader in High Security Information  
End-of-Life Solutions for Over 50 Years**



# A Tradition of Excellence for Over 50 Years

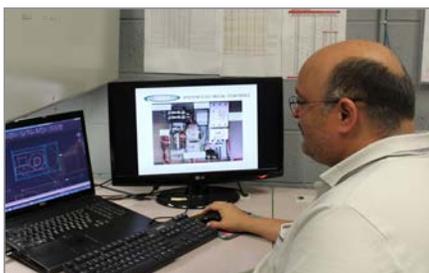
On January 23, 1968, the USS Pueblo, a Navy intelligence vessel, was engaged in a routine surveillance of the North Korean coast when it was intercepted by North Korean patrol boats. According to U.S. reports, the Pueblo was in international waters almost 16 miles from shore, but the North Koreans turned their guns on the lightly armed vessel and demanded its surrender. The Americans attempted to escape, and the North Koreans opened fire, wounding the commander and two others. With capture inevitable, the Americans stalled for time, destroying the classified information aboard while taking further fire. Unfortunately, the volume of material on board was so great that it was impossible to destroy it all prior to capture. An NSA report quotes Lieutenant Steve Harris, the officer in charge of Pueblo's Naval Security Group Command detachment: "Only a small percentage of the total classified material aboard the ship was destroyed."

Upon learning of this "Pueblo Incident," Korean War Veteran Leonard Rosen was struck with the idea that there must be a better way to destroy classified information, and he began working to develop a faster, more efficient and secure method. Within weeks he had developed the concept for the world's first paper disintegrator — and the SEM legacy was born.



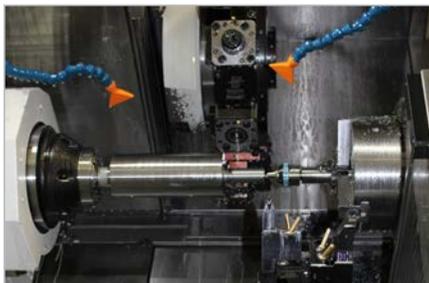
**Len Rosen**, SEM Founder and Korean War Veteran

## Custom Engineered and Manufactured



### Leadership and Innovation

For over 50 years, SEM has been the driving force behind document and data destruction innovations that are now considered industry best practices. From the world's first disintegrator to the industry's most successful line of electronic media crushers and shredders — and the only touchscreen, dual-voltage, NSA listed degausser — SEM enjoys a reputation for innovation earned from a firm commitment to engineering, design, and product manufacturing.



### Engineering and Design

Our experienced engineering staff employs the latest CAD technology to create custom systems optimized to customer destruction needs, security levels, and space requirements. Whether designing a commercial, off-the-shelf solution for government or military use or a custom, proprietary system for a Fortune 500 company, our dedicated team has the creativity, experience, and aptitude to deliver solutions that consistently exceed expectations.



### Prototyping and Testing

Every product we manufacture begins with fully functioning prototypes that undergo rigorous beta testing in real world environments. When testing is complete, we analyze performance data and inspect every inch of the test machine to ensure all structural, mechanical, and electrical components performed as expected. This commitment to quality guarantees reliable performance and long service life.

### Complete Manufacturing Capabilities

Unlike most suppliers of information destruction equipment, SEM is a manufacturer, not just a reseller. Our manufacturing center is equipped with state-of-the-art factory automation equipment and staffed by industry leaders, allowing us to maintain the strictest quality control standards in the industry as well as the flexibility to modify equipment to best suit specific application needs. Our in-house manufacturing capabilities also allow us to react more quickly to customer demands than suppliers who rely on outside contract manufacturers.

### Software Integration Expertise

SEM is an expert in software design and integration. From our LCD touchscreen and master control panels with on-board diagnostics and destruction verification reporting to proprietary auditing software, we incorporate software-based technology as a means to upgrade machine performance and improve the overall operator experience along with compliance solutions for end-of-life.



#### SEM GSA Contracts:

- Paper Shredders, Disintegrators, Parts & Accessories: Schedule 75; Contract #GS-02F-0111P
- Information Technology: Schedule 70; Contract #GS-35F-005AA

For detailed information on SEM's GSA contracts, please contact SEM or visit [www.semshred.com/gsacontracts](http://www.semshred.com/gsacontracts)

**For complete product information or to place an order, visit [www.semshred.com](http://www.semshred.com) or call 800.225.9293.**

#### Key



NSA Listed



CE Marked



NSN Number

## About Degaussing

Degaussing is the process of decreasing or eliminating a remnant magnetic field to prevent access to data on magnetic storage media. Degaussers create powerful magnetic fields to sanitize magnetic storage media, rendering the drive useless.

### NSA Evaluated Degaussers for Classified Data

The National Security Agency performs tests on degaussers to judge their ability to remove data, and the units they deem effective for these purposes are listed on the NSA Degausser Evaluated Products List. **Classified data stored on magnetic media must be degaussed in an NSA Evaluated Degausser.**

### Non-NSA Evaluated Degaussers

Appropriate for virtually all commercial use applications as well as some government and military uses such as CUI or PII data, non-NSA Evaluated Degaussers are typically smaller, lighter, and less expensive than NSA Evaluated Degaussers.

## Degausser Technology

**Electromagnetic** degaussers remove data by applying a very strong, short duration magnetic field pulse to the media. A major advantage of electromagnetic technology is that electromagnetic degaussers tend to be lighter, more portable, and less expensive than similarly rated permanent magnetic degaussers.

**Permanent Magnet** degaussers use an array of Neodymium Iron Boron (NdFeB) fixed magnets to degauss media. Creating rare earth magnetics involves a multi-step process that is time consuming and expensive. Fixed magnets are also susceptible to high temperatures. Environments where the temperatures exceed 80° will impair magnetic fields and their degaussing effectiveness.

## Degaussable Media



- **Magnetic hard drives:** all types including LMR and PMR
- **Computer tapes:** DLT, SDLT, LTO, QIC, DAT, Travan, AIT, 8mm
- **Removable disks:** 3.25" and 5.5" floppy, ZIP, JAZZ, REV, Syquest
- **Audio tapes:** cassette, reel-to-reel
- **Video tapes:** VHS, Beta, SVHS, Mini DV, 8mm

# Degaussers



## EMP1000-HS Electromagnetic Degausser

**GSA Price: \$15,750**

**Accepts any magnetic/rotational hard disk drive (HDD) up to 1" thick and 6" deep as well as computer tapes:**

- NSA Listed
- Magnetic field: 2.0 tesla/20,000 gauss
- Throughput: up to 570 pieces/hour
- Cycle time: 25 seconds first cycle, then 20 seconds or less
- LCD touchscreen shows field strength, diagnostics, and status
- Sanitizes LMR & PMR drives with 5,000 Oe and tape with 3,000 Oe
- Drawer opens automatically after degaussing
- Built-in magnetic field sensor with visual field verification
- Universal power input with auto sensing voltage 120V-240V/50-60Hz
- Dimensions: 23"H x 11.4"W x 19"D / Weight: 160 lbs.



## EMP1000 Electromagnetic Degausser

**GSA Price: \$10,999**

- Magnetic field: 1.6 tesla/16,000 gauss
- Throughput: up to 700 pieces/hour
- Cycle time: 8-12 seconds
- Built-in magnetic field sensor with verification
- Universal power input with auto sensing voltage for 120V-240V operation at 50-60Hz
- Dimensions: 23"H x 11.4"W x 19"D / Weight: 150 lbs

## HD-3 WXL Degausser

**GSA Price: \$7,575**

**Erases hard drives and tape media up to 1.66" thick without any adapters:**

- Magnetic field: 0.93 tesla/9,300 gauss
- Cycle time: 9 seconds



## HD-2 Degausser

**GSA Price: \$3,350**

**Erases hard drives and tape media up to 1.5" thick without any adapters:**

- Magnetic field: 0.83 tesla/8,300 gauss
- Cycle time: 60 seconds

## SD-1 Mobile Fixed Magnet Degausser

**GSA Price: \$3,499**

**Fixed magnet degausser operates with simple hand crank:**

- **Requires no electricity**
- Cycle time: 5 seconds
- Magnetic field: 1.2 tesla/12,000 gauss



For details visit [www.semshred.com/degausser](http://www.semshred.com/degausser)



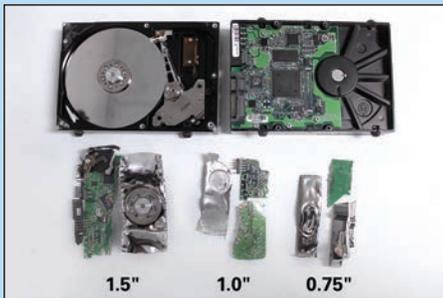
EMP-1000HS, EMP-1000, HD-3 WXL, and HD-2 made in the United States.

## About HDD Destruction

Physical destruction is an option for rendering data inaccessible on magnetic media.

**Hard Drive Crushers** use powerful force applied to the drive chassis to buckle and/or pierce it. The internal platters and read/write heads are damaged beyond reasonable recovery methods, making the drive inoperable.

**Hard Drive Shredders** operate the same way as paper shredders but with larger, more rugged cutting heads. Drives entering the cutting mechanism are literally ripped to shreds, and the result is a pile of twisted metal that barely resembles a hard drive.



Comparison of shred sizes from HDD shredders.

**Per NSA directives, physical destruction is required after degaussing of classified drives.**

For unclassified magnetic media, a crusher or shredder used on its own is acceptable. However, for classified magnetic media or for added security, it is necessary to degauss drives with a degausser listed on the NSA/EPL, then physically destroy them using an NSA Evaluated Crusher or HDD Shredder. **This two step approach is mandated by the DoD for classified data.**

## Destroy More Than Just Hard Drives

Crushers and shredders don't discriminate based on the items that are fed into them. Therefore, they can be used for other media such as solid state drives, smartphones, optical media, MP3 players, touch pads, e-readers, cell phones, PDAs, and PC boards.

## Crusher or Shredder?

Typically, crushers are used in lower volume applications of 100 drives per day or less. Shredders are larger machines that can be fed faster and operated continuously for long periods of time.

# HDD Crushers

## Model 0101 Crusher

GSA Price: \$4,350

**Conical steel punch delivers 12,000 lbs. of force to pierce, bend, crush, and mangle any size, format, or type of drive up to 1.85" thick:**

- NSA Evaluated and Listed - NSA/CSS PM 9-12
- DIN Level H-3
- **Only powered unit that accepts drives with integrated rails/handles found in server environments**
- Destroys up to six notebook drives in a single cycle
- Unit draws zero power when not crushing
- Destruction cycle: 8 seconds
- 115V/60Hz, standard 15 amp outlet; other voltages available
- Motor: 1/3 HP
- Dimensions: 22"H x 10"W x 19"D / Weight: 120 lbs.
- Optional deployment case available



## NEW! iWitness End-of-Life Documentation Tool

GSA Price: \$2,475

**Plug and play end-of-life documentation tool for IT destruction:**

- Records media and documents erasure status
- Software records manufacturer, model, serial number, destruction method and device used, operator name, date, as well as customizable information
- Creates exportable CSV file
- Audit-friendly
- Easy-to-use interface prompts operator through entire process



### Compatibility:

- SEM Degausser models EMP1000 and EMP1000-HS high security
- SEM's entire line of HDD and SSD crushers, shredders, and disintegrators

For details visit [www.semshred.com/iWitness](http://www.semshred.com/iWitness)



## Model 0100 Manual Crusher

GSA Price: \$799

**SEM's manual crusher utilizes a conical punch to deliver 6,000 lbs. of force to destroy hard drives from 0.65" to 1.6" thick:**

- **Accepts drives with integrated rails/handles found in server environments**
- Unit must be mounted to a table or purchased with the optional custom heavy duty stand (shown)
- Destruction cycle: 5 seconds
- Dimensions: 24"H x 8"W x 16"D
- Weight: 88 lbs.



All SEM HDD Crushers are made in the United States.

# HDD Shredders

All of our high-torque HDD shredders have sawtooth, hooked cutters that rip drives to shreds. All SEM HDD shredders are noted on the NSA/CSS Evaluated Products List (EPL) for HDD Destruction Devices, meet DIN Level H-4, and are CE Marked.

## CE SEM HDD Shredders

Model:	Model 0300	Model 0303	Model 0301	Model 0302	Model 0305 ENTERPRISE	Model 0304 ENTERPRISE
						
<b>Throughput Capacity:</b>	Up to 500 per hour	Up to 750 per hour	Up to 2,000 per hour	Up to 2,500 per hour	Up to 3,000 per hour	Up to 3,500 per hour
<b>Available Final Particle Sizes:</b>	1.5"	1.5"/0.75"	1.5"	1.5"/1.0"/0.75"	1.5"/1.0"/0.75"	1.5"/1.0"/0.75"
<b>Dimensions (HXWXD): With feed chute and conveyor attached:</b>	43" x 45" x 20.5" Optional - Call	43" x 45" x 20.5" Optional - Call	50" x 51" x 30" 50" x 51" x 80"	50" x 54" x 30.5" 50" x 54" x 80"	58" x 58" x 30.5" 66" x 58" x 90"	67" x 65" x 47.25" 67" x 65" x 114"
<b>Weight:</b>	1,200 lbs.	1,500 lbs.	2,500 lbs.	2,600 lbs.	2,800 lbs.	4,300 lbs.
<b>Motor:</b>	1.0 HP	3.0 HP	5.0 HP	7.5 HP	10 HP	20 HP
<b>Electrical:</b>	110V, 20 Amp 1-Phase	208/230/460 3-Phase	208/230/460 3-Phase	208/230/460 3-Phase	208/230/460 3-Phase	208/230/460 3-Phase
<b>GSA Price (by final particle size):</b>	\$18,950	\$24,000/\$26,500	\$36,697	\$38,745/\$41,999/\$43,048	\$44,100/\$45,150/\$46,200	\$50,925/\$51,397/\$52,447

## CE NEW! Model 0315 Enterprise HDD Shredder

**GSA Price: \$21,857 (1.5") / \$23,464 (0.75")**

**Specifically designed for enterprise drive destruction:**

- 55% more torque than other shredders in this class enables system to cut through multiple plates and carriers
- Throughput capacity of up to 180 enterprise drives per hour and/or up to 350 standard drives per hour
- Available in 110V, 20 Amp single phase and 208/460 3-phase; international voltage available
- Motor: 1.5 HP / Weight: 1,550 lbs. / Dimensions: 43"H x 45"W x 20.5"D
- Available final particle sizes: 1.5"/0.75"



### What is an Enterprise Hard Disk Drive?

Enterprise class drives are designed to withstand higher temperatures and 24/7 usage and are constructed with heavy duty components including headstack with higher structural rigidity, larger magnets and air turbulence controls, and double-anchored spindles. These heavier components require a more powerful shredder specifically designed for use with enterprise drives.



## CE SEM's Degauss, Destroy, & Document Bundle

**GSA Price: \$22,575**

**Track end-of-life solutions and export for auditing purposes — meets NSA/CSS EPL Standard for destruction of classified drives by first degaussing and then destroying the drive.**

**Includes the following components:**

- SEM iWitness Software System Bundle
- SEM Model EMP1000-HS — NSA Listed Degausser
- SEM Model 0101 — NSA Listed Automatic Hard Drive Crusher



All SEM HDD Shredders are made in the United States.



# About SSD Destruction

Eliminating the possibility of data recovery from solid state drives (SSDs) and other solid state devices can be a significant challenge. Unlike rotational platter based hard drives and other magnetic media, solid state devices CANNOT be degaussed. As such, physical destruction is required.

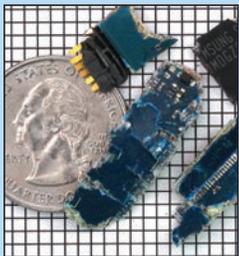
SSDs store vast amounts of data on small flash memory chips, and the only way to ensure that the data is not recoverable is to damage or destroy each and every chip. Therefore, only devices specifically designed for SSD destruction should be used, as using devices designed for rotational platter based hard drives could allow some chips to escape damage — leaving large amounts of data intact and recoverable.

### Examples of Solid State Media:

Solid state drives, smartphones, cell phones, PDAs, tablets, printed circuit boards, SIM cards, cameras, ID badges, common access cards, credit cards, USB flash drives, and compact flash.

## Methods of Destruction

**SSD Crushers** are ideal for low volume destruction of solid state hard drives, but may be impractical for smaller solid state devices like thumb drives and compact flash.



Shredded SSD waste particles. DIN Level E-3.

**SSD Shredders** are recommended for high volume destruction of any type of SSD. They produce final waste particles of 0.375", small enough to ensure that the flash storage chips are destroyed.



Disintegrated SSD waste particles. DIN Level E-7.

**SSD Disintegrators** provide the most complete chip destruction and highest level of security. SSD disintegrators continuously cut SSDs until they are small enough

to pass through a waste sizing screen. Particle sizes as small as 0.5mm<sup>2</sup> make data recovery impossible.

# SSD Crushers



## Model 0101 Crusher with SSD Kit

**GSA Price: \$6,545\***

**Provides ultimate flexibility to destroy both HDD and SSD media with one user-friendly device:**

- NSA listed for HDDs, CUI/PII/SBU for SSDs
- DIN Level E-2
- Includes two easily interchangeable crushing anvils to destroy both HDD and SSD media
- Destruction cycle: 8 seconds
- 115V/60Hz, standard 15 amp outlet; other voltages available
- SSD destruction: circuit/controller boards up to 6" diameter, memory sticks, compact flash and SD cards
- Motor: 1/3 HP
- Dimensions: 22"H x 10"W x 19"D
- Weight: 120 lbs.
- Optional deployment case available



\*\$4,350 for Model 0101 and \$2,195 for SSD Kit. Please note: SSD Kit cannot be retrofitted—must be purchased at the same time as a Model 0101.



## NEW! Compact Electronic Media Destroyer

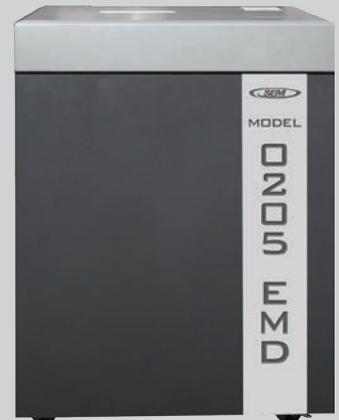
**Ideal for Multi-Purpose, Smaller Office Applications**

### Model 0205 EMD

**GSA Price: \$7,895**

**Revolutionary device is smaller than most paper shredders but powerful enough to destroy a wide variety of solid state media:**

- DIN Level E-4
- Average particle size: less than 12mm<sup>2</sup>
- LCD touchscreen controls
- Auto sync dual voltage feature allows for use with 120V/60Hz or 230V/50Hz power
- Motor: 1 HP, single phase
- Dimensions: 32"H x 20"W x 18"D
- Weight: 170 lbs.
- Compact, self-contained unit on casters



SSD drives (including case)



Thumb drives



Cell phones/smartphones



All SEM SSD Crushers on this page are made in the United States.

# SSD Shredders

SEM solid state hard drive shredders are slow-speed, high-torque machines that use heavy duty hooked cutters to chew up solid state hard drives. All SEM Shredders meet DIN Level E-3, are CE Marked, and produce a final waste particle of 0.375" to ensure the destruction of all the flash memory storage chips found in SSDs.

## NEW! Model 0315-.375 Enterprise SSD Shredder

GSA Price: \$26,232

Specifically designed for enterprise SSD destruction — powerful enough to shred enterprise drives with carriers:

- DIN Level E-3
- Available in 110V, 20 Amp single phase and 208/460 3-phase; international voltage available
- 55% more torque than other single phase hard drive shredders
- Throughput capacity of up to 350 enterprise drives per hour and/or up to 750 standard drives per hour
- Motor: 1.5 HP
- Dimensions: 43"H x 45"W x 20.5"D
- Weight: 1,550 lbs.
- **Optional Premium Upgrade Package includes the following:**
  - **Weight scale auto shut-down**
  - **Key lock**
  - **HEPA filters**



SOLID STATE MEDIA/SSD



### What is an Enterprise Solid State Drive?

Enterprise class drives are designed with heavy duty components meant to withstand higher temperatures and 24/7 usage. They are typically made of longer-lasting flash memory and use different architectures to optimize performance. Enterprise drives often house three boards rather than the one found in consumer drives. These heavier components require a more powerful shredder specifically designed for use with enterprise drives.

## SEM SSD Shredders

Model:	Model 0303-.375	Model 0302-.375	Model 0305-.375 ENTERPRISE	Model 0304-.375 ENTERPRISE
<b>Throughput Capacity:</b>	Up to 250 per hour	Up to 750 per hour	Up to 1,000 per hour	Up to 1,500 per hour
<b>Dimensions (HXWXD):</b>	43" x 45" x 20.5"	50" x 51" x 30"	58" x 58" x 30.5"	67" x 65" x 47.25"
<b>With feed chute and conveyor attached:</b>	Optional - Call	50" x 51" x 80"	66" x 58" x 90"	67" x 65" x 114"
<b>Weight:</b>	1,500 lbs.	2,600 lbs.	2,800 lbs.	4,300 lbs.
<b>Motor:</b>	3 HP	7.5 HP	10 HP	20 HP
<b>Electrical:</b>	110V, 20 Amp 1-Phase	208/230/460 3-Phase	208/230/460 3-Phase	208/230/460 3-Phase
<b>GSA Price:</b>	<b>\$27,900</b>	<b>\$46,147</b>	<b>\$53,550</b>	<b>\$58,747</b>

Devices can be configured in a variety of options to fit specific usage, power, and space requirements. Call for details.

For details visit [www.semshred.com/ssd\\_shredders](http://www.semshred.com/ssd_shredders)

All SEM Shredders are made in the United States.

# SSD Disintegrators

SEM SSD disintegrators are fully customized to meet volume and space requirements and are equipped with a variety of safety, ease-of-use, and convenience features as well as operator-friendly controls.

## ☉ Model 2 SSD Disintegrator (Enterprise)

**GSA Price: \$46,568**

**Specifically designed to destroy enterprise SS drives in casing, USB drives, SD cards, compact flash, micro SD, and more:**

- DIN Level E-5
- Capacity of up to 180 SS drives per hour or up to 500 SS devices per hour
- Particle size approximately 2mm<sup>2</sup>; enhanced two-stage cutting system
- Mounted on heavy duty casters for easy mobility
- Electrical/Motor: 3-Phase 460/230/208—60Hz/5 HP; international voltage available
- Dimensions: 53"W x 49"H x 34"D / Weight: 2,200 lbs.

### **SEM Operator Health and Safety Package Included:**

- Custom, steel insulated sound enclosure for maximum sound, odor, and dust control
- Internal carbon-based pre-filter and HEPA air filtration system
- Illuminated operator interface controls
- Safety limit switches, key lock, e-stop buttons, and hour meter
- Aluminum waste collection bin with auto shut-down when full



## Model SSD1 HS Disintegrator

**GSA Price: \$35,900**

**Reduces solid state devices including solid state boards, RAM, smartphone/cell phone components, SIM cards, USB thumb drives, compact flash, and even optical discs to waste particles smaller than the NSA requirement for sanitization of SSD devices per NSA/CSS EPL 9-12:**

- **Particle size: less than 0.5 mm<sup>2</sup>**
- DIN Level E-7
- Capacity of up to 100 solid state drives/devices per hour
- Insulated cabinet for maximum sound reduction
- Mounted on casters for easy relocation
- Hour meter and timed shutdown
- Waste collection includes 4-gallon vacuum with HEPA filter
- Electrical/Motor: 120V/60Hz/1 HP
- Dimensions: 24"W x 40"H x 38"D / Weight: 535 lbs.

## Model 22 SSD/VK (Enterprise): Highest Throughput Available

**The ultimate solutions for higher throughput capacities, destruction of SSDs in their casings, or large profile SSD devices:**

- Capacity of up to 300 SSDs per hour at 2mm<sup>2</sup> or 1,000 solid state devices
- Custom steel insulated sound enclosure for maximum sound, odor, and dust control
- Carbon-based pre-filter and HEPA air filtration system
- Integrated feed conveyor for maximum efficiency
- Waste collection system with auto shut-down when full
- Programmable push button user interface control system
- Complete safety interlocks, current sensors, automatic drive indexing, and over-fed illumination and motor control
- Electrical/Motor: 3-Phase 460/230/208—60Hz/20 HP
- Dimensions with enclosure: 77"H x 97"W x 86"D
- Weight: 6,000 lbs (all components)

**Fully customizable — call for price and details.**



# HDD/SSD Combo Shredders

SEM's HDD/SSD Combo Shredders provide dual destruction capability in a single device.

- Dual feed chutes and dual cutting mechanisms
- DIN Level H-4/E-3
- CE Marked
- Produce a final SSD waste particle of 0.375"
- Noted on the NSA/CSS EPL for HDD Destruction Devices

## CE Model 0315 HDD/SSD Enterprise Combo Shredder

GSA Price: \$28,107 (1.5") / \$29,714 (0.75")

Specifically designed for enterprise HDD/SSD destruction — 55% more torque than others in same class and powerful enough to shred even enterprise drives with carriers:

- Throughput capacity of up to 180 enterprise and/or up to 350 standard drives per hour; and 750 e-media devices per hour
- Available final particle sizes: 1.5"/0.75" HDD / 0.375" SSD
- Available in 110V, 20 Amp single phase, 208/460 3-phase, or international voltage
- Motor: 1.5 HP / Dimensions: 43"H x 54"W x 20.5"D / Weight: 1,550 lbs.
- Separate feed openings for HDDs and SSDs



### What is an Enterprise Drive?

Enterprise class drives are designed to withstand higher temperatures and 24/7 usage and are constructed with heavy duty components. Enterprise SSDs often house three boards rather than the one found in consumer drives, and enterprise HDDs frequently are constructed with higher structural rigidity, larger magnets and air turbulence controls, and double-anchored spindles. These heavier components require a more powerful shredder specifically designed for use with enterprise drives.

## CE SEM HDD/SSD Combo Shredders

Model:	Model 0303-HDD/SSD	Model 0305-HDD/SSD ENTERPRISE	Model 0304-HDD/SSD ENTERPRISE
<b>Throughput Capacity:</b>	Up to 750 HDD per hour and/or up to 2,000 e-media devices per hour	Up to 2,500 HDD per hour and/or up to 2,500 e-media devices per hour	Up to 3,500 HDD per hour and/or up to 4,500 e-media devices per hour
<b>Available Final Particle Sizes:</b>	1.5"/0.75" HDD / 0.375" SSD	1.5"/1"/0.75" HDD / 0.375" SSD	1.5"/1"/0.75"HDD / 0.375" SSD
<b>Dimensions (HXWXD): With feed chute and conveyor attached:</b>	43" x 54" x 20.5" Optional - Call	58" x 58" x 30.5" 66" x 58" x 90"	67" x 65" x 47.25" 67" x 65" x 114"
<b>Weight:</b>	1,500 lbs.	2,800 lbs.	4,300 lbs.
<b>Motor:</b>	3 HP	10 HP	20 HP
<b>Electrical:</b>	110V, 20 Amp 1-Phase	208/230/460 3-Phase	208/230/460 3-Phase
<b>GSA Price:</b>	\$29,900/\$31,999	\$55,650/\$57,750/\$59,850	\$63,000/\$68,775/\$70,875

For details, visit [www.semshred.com/hhd\\_combo](http://www.semshred.com/hhd_combo)



All SEM Combo Shredders are made in the United States.

# About Optical/ Mixed Media Destruction

Data storage media takes a variety of forms beyond just rotational, platter-based hard drives and solid state hard drives. Any comprehensive destruction program must include a plan for optical media and mixed media.

## Optical Media



Optical media includes CDs and DVDs and has been widely used as a stable, long-term storage media since the 1980s and 90s. More recently, the optical media category has grown to include Blu-Ray disks. Even fragments of these discs can contain large amounts of data, so destruction to extremely small particle sizes is necessary.

## Mixed Media



The category of mixed media is quite broad. Typically it describes any device or non-paper media that stores data. This includes cell phones, smartphones, tablets, flash cards, thumb drives, SIM cards, credit cards, common access cards, and much more. Like optical media, the amount of data that can be contained on small fragments can be substantial.

## Methods of Destruction

Optical media can be destroyed to NSA requirements in two ways: shredding or disintegration. The NSA Standard for Optical Media, NSA/CSS 04-02, requires a waste particle no larger than 2.2mm x 4mm. For mixed media, disintegration is necessary to meet NSA Requirements. The applicable NSA Standard, NSA/CSS 02-02, requires destruction to particle size of nominally 2mm edge length in an NSA Evaluated and Listed disintegrator.



NSA particle size requirement for optical media

# NSA Listed Mixed Media Disintegrators

- Listed on the NSA/CSS 02-02 Evaluated Products List (EPL) for High Security Disintegrators and NSA/CSS EPL 02-01 for High Security Paper Shredders
- Available with finished particle sizes ranging from 3/32" -3/8"
- Suitable for the destruction of both mixed media and optical media as well as paper

## Model DS-400

GSA Price: \$15,394

Produces a waste particle that is over 50% smaller than conventional high security shredders:

- NSA Listed: 02-02 High Security Disintegrators, 04-02 Optical Media, and 02-01 High Security Paper Shredders
- Meets the NSA/CSS Specification 04-01 Punch Tape with optional 5/64" screen
- DIN Level E-5, O-5, P-7-4
- Designed specifically for the destruction of data that resides on small storage devices such as flash media, thumb drives, SSDs, and SIM Chips
- Electrical/Motor: 208/230/460 3-Phase/3 HP: **3x more HP than 200 series**
- 35 gallon vacuum with air filter
- Dimensions: 65"H x 51"W x 25"D / Weight: 675 lbs.
- Up to 25% more throughput than the 200 series with 50% more cutting inertia to cut through dense media



## NSA Listed SEM Mixed Media Disintegrators

Model:	Model 200	Model 200 Marine	Model 200-e	Model DS-200
<b>Throughput Capacity:</b>	Up to 70 lbs. per hour	Up to 70 lbs. per hour	Up to 70 lbs. per hour	Up to 75 lbs. per hour
<b>Dimensions (HXWXD):</b>	59" x 51" x 25"	59" x 51" x 25"	42" x 24" x 21"	59" x 51" x 25"
<b>Weight:</b>	575 lbs.	415 lbs.	415 lbs.	600 lbs.
<b>Electrical:</b>	110V 1-Phase	110V 1-Phase	110V 1-Phase	208/230/460 3-Phase
<b>Motor:</b>	0.5 HP	0.5 HP	0.5 HP	1 HP
<b>Waste Collection:</b>	35 gallon vacuum	3 gallon vacuum	3 gallon vacuum	35 gallon vacuum
<b>NSN Number:</b>	7490014616124	N/A	N/A	7490015045606
<b>GSA Price:</b>	<b>\$9,299</b>	<b>\$9,663</b>	<b>\$8,454</b>	<b>\$11,976</b>

For details, visit [www.semshred.com/mmd](http://www.semshred.com/mmd)



All SEM SSD Mixed Media Disintegrators are made in the United States.

# Optical Media Destroyers

## Model 0202 OMD Dual Voltage Optical Media Destroyer

**GSA Price: \$3,499**

**High capacity optical media shredder ideal for optical discs, credit cards, and ID badges:**

- NSA Listed — NSA/CSS 04-02; NSA rating: 2,400 discs/hour
- DIN Level 0-5
- Residual particle size: 2mm x 3.9mm
- LCD touchscreen display
- 1 HP motor with auto sync; dual voltage at 120V/60Hz or 230V/50Hz (includes both cords)
- 15 gallon waste collection bin
- Oiler not required — cutters lubricated by bio-based based sheets
- Dimensions: 32"H x 20"W x 18"D / Weight: 170 lbs.

*Model 0202 OMD DEP with optional deployment kit shown.*

**GSA Price: \$4,795**



## Model 0200 OMD

**GSA Price: \$2,199**

**Lightweight, portable, economical, NSA listed solution for optical media destruction:**

- DIN Level 0-6
- NSA Evaluated for the destruction of CDs and DVDs; also destroys Blu-Ray disks to CUI levels
- NSA rating: 570 discs/hour
- Particle size: dust
- Dimensions: 7.8"H x 9.4"W x 11.5"D / Weight: 15 lbs.
- Electrical: 110V/60Hz single phase

**Model 0200-OMD/SSD** is the same as Model 0200-OMD except that it is also approved for EMV, CAC, mag stripe cards, and SIM cards.

**GSA Price: \$2,999**

## **NEW!** Model 8730HS Combo Paper/Optical Media Shredder

**GSA Price: \$5,859**

**A combo optical media and paper shredder that destroys optical media (CD/DVD/Blu-Ray) and paper in accordance with NSA High Security Guidelines:**



- NSA Listed on NSA/CSS 04-02 EPL for optical media and 02-01 EPL for high security paper destruction
- DIN Level P-7, 0-5
- Two separate feed openings and collection bins to accommodate both paper and optical disks
- Paper throughput: 19 reams/hour NSA Rated
- Disc throughput: 2,000/hour NSA Rated
- Particle sizes:
  - Paper 1/32" x 3/16"
  - Optical 1/16" x 5/32"
- Dimensions: 43"H x 28"W x 24"D
- Weight: 319 lbs.

## Model 250C Optical Media/Key Tape Disintegrator with Cabinet

**GSA Price: \$3,499**

**Ideal for credit cards, key cards, ID badges, key tape, and floppy disks:**

- Meets NSA/CSS 04-01 for key tape and 04-02 for optical media
- DIN Level 0-6
- Particle size: 3/32" or 5/64"
- Electrical: 115V/60Hz
- Dimensions: 44"H x 20"W x 22"D
- Weight: 132 lbs.
- Disc throughput: 720/hour NSA Rated

**Model 250C DEP with Optional Deployment Kit**

**GSA Price: \$4,620**



For details, visit [www.semshred.com/optical](http://www.semshred.com/optical)

 All SEM Shredders are made in the United States.

# About Paper Destruction



High Security:  
NSA Listed

High security paper shredders must be evaluated by the NSA to ensure they produce waste particles less than 1mm x 5mm. The NSA also performs a durability test for one hour where the maximum amount of paper is shredded. The durability test results are stated in pages per pass and reams per hour. All NSA evaluated shredders are listed on the Evaluated Products List prepared by the NSA and are DIN level P-7.

## CUI and PII

While CUI/PII paper shredders do not meet the NSA requirements for high security paper destruction within a government environment, they nonetheless provide an extremely high degree of protection and are suitable for most other sensitive applications including HIPAA, official use, CUI (Controlled Unclassified Information), and PII (Personally Identifiable Information) paper shredding. They are also ideal for commercial paper shredding uses (non-government). These devices are faster and less expensive than their high security counterparts, and they produce a 4mm x 40mm particle that is DIN level P-4.

While the NSA still determines all standards for information destruction, the United States has accepted the following seven security levels of paper destruction developed by the German Institute for Standardization, commonly referred to as DIN 66399:



**P-1: Fast Throughput**



**P-2: Basic Security**



**P-3: Sensitive Information, HIPAA/FACTA**



**P-4: CUI, PII, SBU, FOUO**



**P-5: CUI, PII, SBU, FOUO**



**P-6: CUI, PII, SBU, FOUO**



**P-7: NSA Requirement for Top Secret/Classified**

# High Security Paper Shredders

## NSA/CSS 02-01 — DIN Level P-7

**#1 Best-Selling in Industry**



**Model 244/4**

**GSA Price: \$2,495**

**Industry's best-selling, most popular high security shredder:**



- NSA Rating: 17 reams/hour, 8 sheets/pass
- Shred Size: 0.8mm x 5mm
- Sheet Capacity: Up to 13
- Feed Opening: 10.25"
- Auto Oiler: Included
- Bin Capacity: 28 gallon
- NSN Number: 7490015045605

**High Volume**



**Model 266/4**

**GSA Price: \$4,999**

**Our best-selling high security shredder for high volume:**



- NSA Rating: 28 reams/hour, 10 sheets/pass
- Shred Size: 0.8mm x 5mm
- Sheet Capacity: Up to 18
- Feed Opening: 12.25"
- Auto Oiler: Included
- Bin Capacity: 48 gallon
- NSN Number: 7490013953263

**Smallest Particle Size**



**Model 344**

**GSA Price: \$3,234**

**Highest security: particle size 50% smaller than NSA/CSS 02-01 requirements:**



- NSA Rating: 12 reams/hour, 5 sheets/pass
- **Shred Size: 0.8mm x 2.5mm**
- Sheet Capacity: Up to 8
- Feed Opening: 10.25"
- Auto Oiler: Included
- Bin Capacity: 48 gallon
- NSN Number: 7490016648153

**Oil Not Required**



**Model 1201CC**

**GSA Price: \$5,485**

**Only paper shredder on the EPL tested for NSA durability rating without oil:**



- NSA Rating: 18 reams/hour, 6 sheets/pass
- Shred Size: 0.8mm x 5mm
- Sheet Capacity: Up to 18
- Feed Opening: 11.75"
- **Auto Oiler: Not Needed**
- Bin Capacity: 28 gallon
- NSN Number: 7490016649499

MODEL	1324C/3	1324C/3WO	2226CC/3NO	2226CC/3WO	5140C/4
NSA Rating: Reams/Sheets	5/3	5/3	15/6	15/6	24/10
Sheet Capacity:	4-7	4-7	Up to 11	Up to 11	Up to 18
Feed Opening:	9.5"	9.5"	10.25"	10.25"	16"
Auto Oiler:	N/A	Included	N/A	Included	Included
Bin Capacity:	10 gallon	10 gallon	28 gallon	28 gallon	60 gallon
NSN Number:	N/A	N/A	N/A	7490014810399	7490014616119
<b>GSA Price:</b>	<b>\$1,099</b>	<b>\$1,429</b>	<b>\$2,050</b>	<b>\$2,374</b>	<b>\$5,506</b>

For info on high security paper shredders, visit [www.semshred.com/hs](http://www.semshred.com/hs)

# CUI and PII Paper Shredders

SEM offers a full line of shredders that are ideal for the destruction of CUI or PII documents. All SEM shredders can be configured with a variety of options and accessories — see website for details.

## ☐ CUI and PII Paper Shredders for Official Use

At standard configurations, SEM's CUI/PII paper shredders are DIN Security Level P-4 and produce a 4mm x 40mm particle. All CUI/PII shredders are also available at DIN Level P-5 and produce a 2mm x 15mm particle.

MODEL	1324P/2	2125P	2226P	2226P WO	3130P	3140P WO	266P	5141P
								
Sheet Capacity:	Up to 15	Up to 18	Up to 27	Up to 27	Up to 27	Up to 38	Up to 48	Up to 52
Bin Capacity:	9 gallon	27 gallon	28 gallon	28 gallon	48 gallon	48 gallon	42 gallon	60 gallon
NSN Number:	N/A	N/A	N/A	7490014752736	N/A	7490015045602	N/A	N/A
<b>GSA Price:</b>	<b>\$569</b>	<b>\$899</b>	<b>\$1,199</b>	<b>\$1,399</b>	<b>\$1,799</b>	<b>\$2,399</b>	<b>\$2,999</b>	<b>\$3,499</b>

For details on CUI/PII shredders, visit [www.semshred.com/cui](http://www.semshred.com/cui)

## Cross-Cut High Volume Paper Shredders

High volume industrial paper shredders are ideal for extremely high volumes of CUI and PII destruction. SEM offers a full line of high volume industrial paper shredders with feed rates range from 60 sheets up to 600 sheets per pass. For the ultimate recycling system, our high volume shredders are available with integrated balers.

MODEL	F65	6040P	7050 Series		800 Series			
			7050P	7050PSP	800-3P	800-5P	800-75P	800-100P
								
DIN Level:	P-4	P-3	P-2	P-3	P-3	P-3	P-3	P-3
Particle Size*:	4mm x 40mm	6mm x 50mm	8mm x 40-80mm	6mm x 50mm	6mm x 50mm	6mm x 50mm	6mm x 50mm	6mm x 50mm
Sheet Capacity:	65 plus	Up to 90	Up to 600	Up to 400	Up to 110 or 600 lbs./hour	Up to 160 or 650 lbs./hour	Up to 180 or 750 lbs./hour	Up to 180 or 900 lbs./hour
Bin Capacity:	30 gallon	80 gallon	80 gallon	80 gallon	80 gallon	80 gallon	80 gallon	80 gallon
<b>GSA Price:</b>	<b>\$3,899</b>	<b>\$9,599</b>	<b>\$27,999</b>	<b>\$29,999</b>	<b>\$15,645</b>	<b>\$16,065</b>	<b>\$17,325</b>	<b>\$20,475</b>

\*Can be supplied with particle size options from 6mm x 50mm DIN Level P-3 to as small as 4mm x 40mm DIN Level P-4. Higher volume strip cut shredders available.

### High Volume Shredder Waste Collection and Dust Control

Because higher security shredders generate smaller particles, both waste handling and dust generation can be logistically challenging. SEM's in-house engineering group has developed a unique system that mitigates these issues and can typically be retrofitted to your existing system. Contact us for further details.

For details on high volume shredders, visit [www.semshred.com/hv](http://www.semshred.com/hv)

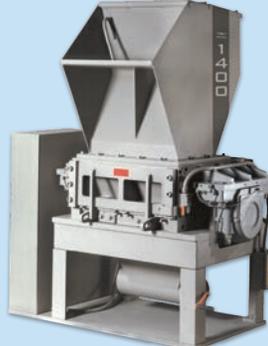


# Industrial Disintegrators

SEM is the industry leader in high volume, multipurpose industrial disintegrators that meet the NSA requirements for the elimination of high security information on paper, optical media, key tape, and more.



All SEM disintegrators meet the requirements of NSA/CSS 02-02 for paper, NSA/CSS 04-01 for key tape, and NSA/CSS 04-02 for optical media.

MODEL	1012/5	22/5	23/5	1400 SERIES		3000
				1424/5	1436/5	
				 <p>Dual stage versions available for bulk destruction at much higher throughput capacities.</p> <p>Call for details!</p>		
Horsepower:	15	20	25	40 - 100	75 - 150	30-50
Feed Opening:	10" x 16"	12" x 20"	12" x 24"	14" x 24"	14" x 36"	14" x 36"
NSA EPL Throughput:	500 lbs./hour	800 lbs./hour	900 lbs./hour	1,200 lbs./hour	1,800 lbs./hour	1,200 lbs./hour
Maximum 1" Throughput:	1,000 lbs./hour	1,600 lbs./hour	1,800 lbs./hour	2,400 lbs./hour	3,000 lbs./hour	2,000 lbs./hour
GSA Price:	CALL	CALL	CALL	CALL	CALL	CALL

## Fully Customizable

Customize a system to your exact specifications and application with a variety of options.



MX steel sound enclosures are STC rated



Briquetting system

## Platinum User Interface



The ultimate in convenience and ease of installation:

- Keyed lockout
- Timed shutdown
- Feed rate and visual status indicators
- Hour meter
- Stop/start buttons
- Emergency e-stop

For details on SEM's disintegrators, visit [www.semshred.com/dis](http://www.semshred.com/dis)



All SEM Disintegrators are made in the United States.

# Disintegrator Bundles

Fully configured industrial disintegrator bundles to efficiently and effectively destroy any required volume of mixed media to NSA or CUI specifications:

- NSA Listed
- Ideal for medium to very high volume destruction of paper, optical media, key tape, and a variety of media in various waste particle sizes
- Contact SEM for pricing

## Bundles include the following:

- 5-bladed rotor
- Increased horsepower
- Dual bag waste collection system
- Sound proof hopper and base
- Modular steel sound enclosure
- Push button controls
- Digital hour meter
- Disintegrator tool kit
- Heavy duty waste collection bags
- Spare set of knives (bed and rotor)
- 5-year warranty

## Optional upgrades:

- Single or dual bag waste collection and filtration system
- MX sound enclosure
- Operator control panels
- Preventative maintenance and service plans



All SEM disintegrator bundles meet the requirements of NSA/CSS 02-02 for paper, NSA/CSS 04-01 for key tape, and NSA/CSS 04-02 for optical media.



## Model 1012/5 Disintegrator Bundle Medium Volume

- NSN: 7490-01-504-5607
- Rated by the NSA at 500 pounds per hour for high security (3/32" particle) and up to 1,000 pounds per hour for non-classified applications
- Recommended minimum room size: 11'D x 11'W x 8'4"H
- Motor: 15 HP/3-phase/460V
- Destruction Chamber: 10" x 16"



## Model 22/5 Disintegrator Bundle Medium to High Volume

- Rated by the NSA at 800 pounds per hour for high security (3/32" particle) and up to 1,600 pounds per hour for non-classified applications
- Recommended minimum room size: 13'D x 12'W x 8'4"H
- Motor: 20 HP/3-phase/460V
- Destruction Chamber: 12" x 20"



## Model 23/5 Disintegrator Bundle Very High Volume

- Rated by the NSA at 900 pounds per hour for high security (3/32" particle) and up to 1,800 pounds per hour for non-classified applications
- Recommended minimum room size: 13'D x 12'W x 10'H
- Motor: 25 HP/3-phase/460V
- Destruction Chamber: 12" x 24"

## Additional customization options:

Customize a system with a variety of feed conveyor and waste collection options including our eco-friendly briquettor systems. SEM briquetting systems are specifically designed and sized to work with an SEM disintegrator to significantly reduce waste volume up to 90%.



Feed Conveyor



Air Evacuation Systems



Briquettor System

**MADE IN USA** All SEM Disintegrators are made in the United States.



Global Leader in High Security Information  
End-of-Life Solutions for Over 50 Years

5 Walkup Drive  
P.O. Box 1045 | Westboro, MA 01581  
508.366.1488 | Toll Free 800.225.9293  
Fax 508.366.6814  
www.semshred.com

Source  
Code

GSA-16P-2.18

## New Products from SEM

*SEM continues pioneer exceptional solutions in the industry with the development of secure data destruction devices that offer increased security, versatility, safety, efficiency, and convenience.*



### Model 0315 HDD/SSD Enterprise Combo Shredder

Specifically designed for enterprise drive destruction, and powerful enough to shred enterprise drives with carriers, laptop drives, data tapes, cell phones, and optical media.

**Details on page 9**



### Model 0205 EMD Compact Electronic Media Destroyer

First of its kind device is smaller than most paper shredders but packs enough power to destroy a wide variety of solid state media including SSD drives, thumb drives, RAM, and cell phones.

**Details on page 6**



### iWitness End-of-Life Documentation Tool

iWitness is a plug and play, end-of-life documentation tool that records media and documents erasure status, providing a verifiable audit trail for secure IT destruction.

**Details on page 4**

All Federal, State, County and Local Agencies/Authorities are eligible to purchase from this catalog. Prices and specifications subject to change without notice.



For detailed information on SEM's GSA contracts, please contact SEM or visit [www.semshred.com/gsacontracts](http://www.semshred.com/gsacontracts)

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