TECHNICAL SPECIFICATION – HEALTH, SAFETY & SECURITY

MEDIA SIZE AND SECURITY

After the SSD is destroyed, the particle size is rendered 2mm x 2mm. This is an exceptional benefit because the NSA defines secure data destruction in the intelligence community as having zero chance of recoverability, and all data being completely neutralized.

The SSDs are fed into the machine manually or via an auto loader, and disintegrated by a powerful knife mill that repeatedly chops the media until it is reduced to particles of 2 mm or less. The disintegrated particles are then extracted through a metal screen and into a debris collection bin.

HEALTH AND SAFETY

The MediaDice® SSD Disintegrator is designed with safety as a key feature. Allowing hands-free operation maximizes user safety. The disintegrated particles are then extracted through a metal screen and into a debris collection bin.

Potentially hazardous debris is extracted through a metal screen, the collected directly into the vacuum's collection bin until safely disposed of.

MDS Weight (excludes packing and crating)	740 lbs.
Shipping Weight (includes packing, crating, pallet)	1,028 lbs.
MDS Dimensions	42" Wide (front left to right) 34" Deep (front to back of machine) 44" High (floor to top of machine)
Shipping Dimensions	52.5" Wide 46" Deep 56" High
Power Requirements (voltage / frequency / current)	***See label on the rear of your machine for specific factory settings*** 220-240 Volts A.C., Single or 3-phase 50/60 Hz. 20 Amps
Current Drawn	11 Amps (no load)
Power Cord Included	Length: 10 ft. 12 AWG, 4 Conductor, grounded NEMA L15-20P locking plug
Ambient Operating Temperature	40-100 °F
Media Sanitization Modality	Knife Mill disintegrates media to nominal edge length of 2mm or less.
Media machine designed to sanitize	1.8" and 2.5" SSDs. Also sanitizes SIM Cards, Flash Cards, CAC ID, EMV Credit Cards, Magnetic Strip Cards, CDs, DVDs, Blue Rays, small Circuit Boards, Memory Cards and USB Flash Drives In reality the manual feed will only accept SSDs, optical media and other media including small low-profile circuit boards up to the size of an SSD or CD/DVD
Media Sanitization Throughput	360 SSDs per hour (avg. 1 SSD every 10 seconds)
Deployment/ Transportability	Floor mounted. Has built in casters for mobility, and leveling feet for stability.
Machine Control/ Monitoring	Switch on manually. Security access, machine control and Status via PLC touch screen.
Media Feeding	Auto loader with 25 SSD capacity cassette. Manual feed port for inserting one device at a time.
Debris Collection	Media are disintegrated in knife mill chamber and extracted directly into an on-board HEPA Vacuum.
Jam/Unjam	Automatic shutdown if media jam is detected either in the auto-loader or in the knife mill. It can manually be unjammed and restart the operation.
Safety	Completely automatic, hands-off operation. Won't operate if lock-out doors are not completely closed preventing hands or pieces of clothing from being accidently caught in the moving parts of the machine. User never has to touch potentially dangerous debris. HEPA Filtration to meet MRV8 air quality standard.
Maintenance/ Longevity	100,000 SSDs and other media MTBFD. Periodic replacement of vacuum bag and/or HEPA Filters by user. Periodic service by qualified service personnel approved by Phiston may be required to adjust, sharpen or replace the knife mill blades, or re-tension the knife mill drive belt.
Technical support	On-call technical support service department; nationwide and international technical support team that can be deployed if and when repairs or maintenance needed.

The HEPA (High Efficiency Particulate Arrestance) Filtration system traps any potentially harmful airborne particulates from the disintegration of circuit boards, electronic components, and silicon-based memory and integrated circuit chips. The vacuum is fully sealed and the drawer is easy to access to change the bag, when needed. This further compliments the mobility of the MediaDice®. All noise is suppressed to less than 80db, which is quieter than the 85db threshold acceptable to OSHA for workplace compliance.

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Phiston TECHNOLOGIES® INC.
Innovation Ingenuity Integrity

Introducing the future of Data Destruction and Media Sanitation:

The first and only product of its kind.

With the ability to stack up to 25 Solid State Drives of almost ANY size to be automatically dropped, one by one, and disintegrated.
Boasting speed and mobility that is UNMATCHED in the field of Data Destruction.

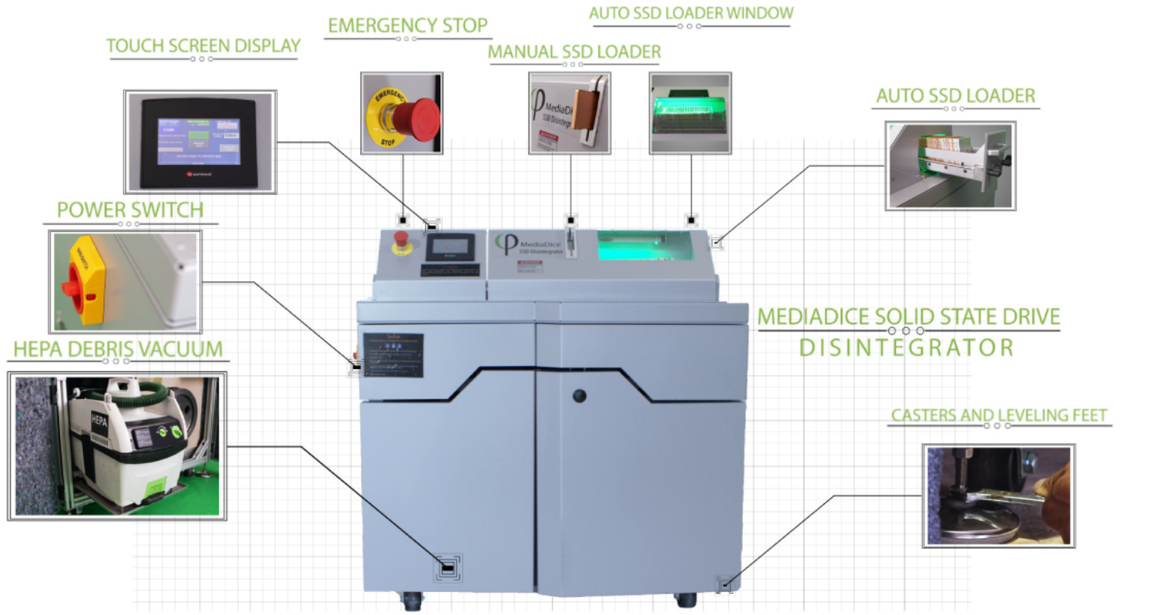
Phiston Technologies Proudly Presents:

THE MEDIADICE® SSD DISINTEGRATOR (MDS)

KEY FEATURES:

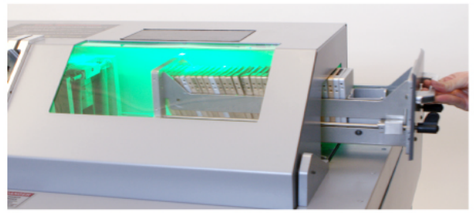
- Portable and safe for office and data center deployment for sanitization at source
- Intuitive LCD touch screen interface to control all security access and operational functions
- Password controlled access to user, administrator and service functions
- Disintegrates SSDs, SIM cards, CAC ID cards, EMV credit cards, magnetic strip cards, optical media (CD, DVD, BluRay), small circuit boards, memory cards, and USB flash drives
- Disintegrates entire aluminum and plastic encased SSDs without need to remove casings
- Disintegrates up to 360 SSDs per hour (1 SSD every 10 seconds)
- SSDs are disintegrated to 2 mm nominal edge length or less
- Fully automatic, hands-off operation
- Fully automatic batch loader, or manual single feeder
- Cycle counter to track volume of media destroyed and maintenance required
- Automatic jam detection and shutdown
- Default lock-out security for any unprocessed media in the machine in case or power interruption
- Safe and secure debris collection into Vacuum with HEPA filter
- EMC and GMA compliant; EM/RF interference suppression
- OSHA workplace compliant for noise, electrical, mechanical and airborne particulate hazards

MOBILITY & MEDIA

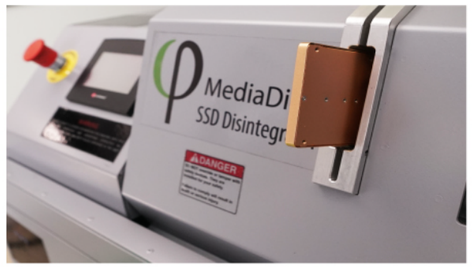


- The MDS was designed with offices and data centers in mind. Now, more than ever, the mobility the MSD provides allows data destruction in the workplace to be accomplished without sacrificing functionality or convenience.
- The MDS is fully automated for ease of use and user safety. There is never any need to handle potentially harmful debris. The machine detects media feed jams, and automatically reverses the feed to unjam the media.
- Touch-screen interface for operation and security, with TCP/IP Network Communication.
- Disintegrated SSD particles are filtered through a 2 mm metal screen and then collected directly into a debris extractor container for safe and secure disposal.
- The MDS is OSHA compliant.
- The MDS automatically powers off after 60 seconds of inactivity to conserve energy.
- The MDS is engineered to suppress electromagnetic interference (EMI) and radio-frequency interference (RFI) which would cause a disturbance by electromagnetic induction, electrostatic coupling, or conduction to other electronic equipment in the vicinity.
- The auto loader also features automatic jam detection. There is NEVER a need for removing the SSD cover. You also have the option to feed the SSDs one at a time.
- Provides high volume, high speed SSD disintegration.
- The Phiston MediaDice® SSD Disintegrator is a continuous cycle knife mill that disintegrates SSDs at a rate of 360 per hour (average 1 SSD every 10 seconds).
- The SSDs are also disintegrated to meet NSA (National Security Agency) destruction standards of 2 mm nominal edge length or less.
- SSDs can be disintegrated one at a time or in an entire batch.
- The media feeder of the MDS destroyer accepts SSDs without the need to remove plastic or aluminum casings, or use of any special adapters.
- When using the MDS, there is never any need to handle potentially harmful debris. If the MDS detects an occasional media feed jam, it will automatically reverse the feed to unjam the media.
- Cycle counter and other measured outputs to help monitor and track usage and performance.

SANITIZING SSDs AND OTHER DATA STORAGE DEVICES



SSD AUTO-LOADER
The auto-loader is intended for processing SSDs ONLY. Batches of up to twenty-five (25) 1.8 inch and/or 2.5 inch SSDs are stacked into the auto-loader cassette. The cassette is then inserted into the auto-loader compartment where the SSDs are automatically fed and disintegrated one at a time until the entire batch has been processed.



SSD MANUAL FEEDER
The manual feeder will accept individual SSDs and optical media (CDs, DVDs, BluRays) one at a time, as well as a variety of other small data storage media including SIM cards, CAC ID cards, EMV credit cards, magnetic strip cards, small circuit boards, memory cards and USB flash drives. It does not accept cell phones. The user is prompted to manually insert devices one at a time into the feeder. When using the manual feeder, the user will receive a prompt on the LDC screen to insert each SSD or other electronic media to be destroyed.

VACUUM
The MDS is equipped with a HEPA (high-efficiency particulate air) vacuum system that collects and safely contains all debris after SSDs are milled and disintegrated by the machine. The vacuum is installed in a compartment behind the left main door on the front of the machine. The touch screen (through a programmed PLC) will provide an alert when the vacuum is full and must be replaced. Furthermore, the system will shut-off automatically until the bag has been replaced.

NON – EMERGENCY AND EMERGENCY STOP
If the machine is running in either auto-loader or manual feeder mode and you would like to perform a non-emergency stop, simply select STOP on the LCD control panel. During a controlled stop, the Disintegrator will continue running for approximately 90 seconds to complete processing of any debris remaining in the disintegration chamber. This reduces the likelihood of large chunks of debris remaining in the chamber and jamming the knife mill when the MDS is restarted. During a controlled stop, the MDS will also stop the auto-Loader as well as prevent any additional media from being fed into the Manual Feeder. In case of an emergency, the machine is stopped by pressing the EMERGENCY STOP button on the left side of front panel of the MDS.

NOISE
Noise suppression to less than 80db which is well below the 85db threshold acceptable to OSHA (Occupational Safety and Health Act of 1970) for workplace. Therefore, the MDS can safely be used in the office or Data Center, conveniently in close proximity to the data that needs to be sanitized.