

NATIONAL SECURITY AGENCY  
CENTRAL SECURITY SERVICE  
FORT MEADE, MARYLAND



# Degausser Evaluated Products List

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# Introduction

1. The Degausser EPL (Evaluated Products List) specifies the current models of commercial equipment that satisfy NSA/CSS requirements for erasure of magnetic storage devices retaining any level of classified or sensitive data. Listing on the Degausser EPL does not constitute endorsement of the product by the USG or NSA/CSS; it only states that the evaluated degausser has met the applicable NSA/CSS performance requirements. Neither does the listing guarantee continued performance; customers should have their equipment re-tested periodically according to the manufacturer's recommendations.
2. Magnetic storage devices are defined in this document by a magnetic property called coercivity in units of Oe (Oersteds). Degaussers listed in this document are rated by the coercivity of the magnetic storage devices they can securely erase (tape and disk storage devices). Tape storage devices are defined as any product that contains magnetic tape as the recording medium. Disk storage devices are defined as any product that contains a flexible or rigid disk as the recording medium. The correct use of these degaussers will ensure that any level of classified or sensitive data is irretrievable.
3. There are two categories of disk storage devices: Longitudinal (L) and Perpendicular (P). These names state how data is stored on a disk storage device and each requires different magnetic field configurations to erase them. See chart on page 9 for the years of manufacture and coercivities for the different technologies. **Degaussers capable of erasing the latest technology tape and disk storage devices are colored green.**
4. Degaussers cannot erase optical and solid state storage devices. There are also two products that resemble magnetic hard disk drives but require special consideration. The first is a hybrid magnetic/solid state disk drive containing a magnetic component inside the disk drive housing which can be erased by degaussers and a solid state component on the external circuit board which cannot be erased by degaussers. The second is a solid state disk drive containing solid state storage devices that cannot be erased by degaussers. Hybrid drives were first released in 2006 and solid state drives were first released in 2008.  
  
***NOTE: IN ADDITION TO DEGAUSSING, CERTAIN ADMINISTRATIVE PROCEDURES MAY BE REQUIRED BEFORE DEGAUSSED MAGNETIC STORAGE DEVICES MAY BE DECLASSIFIED. CONSULT YOUR SECURITY OR INFORMATION TECHNOLOGY OFFICER FOR GUIDANCE IN THIS REGARD.***
5. Proper use of this equipment is necessary to prevent inadvertent disclosure of any level of classified or sensitive information. Any questions about equipment operations should be directed to the manufacturer. Questions regarding security requirements should be addressed to your Security or Information Technology Officer.
6. Included in this list is a NSA/CSS evaluated magnetic field verification device used to measure a degausser's magnetic field to verify proper degausser function.
7. Companies wishing to submit a product for evaluation or customers that have queries regarding magnetic storage device erasure and/or degaussers should contact:

## **National Security Agency**

ATTN: Center for Storage Device Sanitization Research  
9800 Savage Road, Suite 6877  
Fort George G. Meade, MD 20755-6877

Voice: 301.688.1053; Email: [csdsr@nsa.gov](mailto:csdsr@nsa.gov)

# Introduction

## Glossary

1. **Coercivity**: The intensity of an applied magnetic field required to reduce the magnetization of a ferromagnetic material to zero after the material's magnetization has been saturated.
2. **Degausser**: An electrical device or permanent magnet assembly which generates a magnetic force for the purpose of degaussing magnetic storage devices.
3. **Degaussing**: Returning the magnetization of a magnetic storage device to a zero state by applying a reverse magnetizing force.
4. **Oersted (Oe)**: A unit of magnetic field strength.

# Product Listings

## Electromagnetic Degausser Equipment

### Electromagnetic Tabletop Degaussers

These are electromagnetic tabletop degaussers that provide automatic one pass operation for tape and disk storage device erasure (except where noted). On hard disk drives, all extraneous steel shielding materials (e.g., cabinets, casings, and mounting brackets), but not the hard disk assembly, must be removed before degaussing. The degaussers must be operated at their full magnetic field strength. Erasure of hard disk drives causes damage that prohibits their continued use.

(NOTE: ADAPTORS MAY BE NECESSARY TO ACCOMMODATE THE VARIOUS SIZES OF STORAGE DEVICE PRODUCTS.)

Manufacturer / Distributor	Model	Tape (Oe)	Disk (Oe)
<b>Advanced Design Corp.</b> P.O. Box 3327, Fremont, CA 94539 408.888.1889 ATTN: Michael Nguyen <i>michael.nguyen@cinqm.com</i>	MagiWiper MW-1B	3000	L-5000, P-5000
<b>Data Security, Inc.</b> 300 S 7th Street, Lincoln, NE 68508 402.434.5959 / 800.225.7554 <i>www.datasecurityinc.com</i> ATTN: Renee Schafer <i>rschafer@telesis-inc.com</i>	Type I, 911-0000	350	Not Tested
	Type II-A, 930-0000	1000	Not Tested
	Type III, 943-0001	1700	Not Tested
	HD-5T	3000	L-5000, P-5000
<b>Garner Products, Inc.</b> 10620 Industrial Ave, STE 100 Roseville, CA 95678 800.624.1903 / 916.784.0200	2700	350	Not Tested
	CF750	750	Not Tested
	TS-1	3000	L-5000, P-5000
<b>Intimus International</b> P.O. Box 357, Wabash, IN 46992 617.447.5510 <i>www.intimus.com</i> ATTN: Peter Dempsey <i>peter.dempsey@intimus.com</i>	INTIMUS 20000	2800	L-5000, P-5000
<b>Proton Engineering, Inc.</b> P.O. Box 1852, Palm City, FL 34991 772.223.1685 <i>www.protondata.com</i> ATTN: William Olliges <i>proton@bellsouth.net</i>	T-4	3000	L-5000, P-5000

# Product Listings

## Electromagnetic Degausser Equipment

Manufacturer / Distributor	Model	Tape (Oe)	Disk (Oe)
<b>Secure IT Engineered Solutions</b> 5 Walkup Drive, Westboro, MA 01581 800.225.9293 <a href="http://www.secure-it.us">www.secure-it.us</a> ATTN: Michael Paciello	MMD-1000HS	3000	L-5000, P-5000
<b>Security Engineered Machinery, Inc.</b> 5 Walkup Drive, Westboro, MA 01581 800.225.9293 <a href="http://www.semshred.com">www.semshred.com</a> ATTN: Terry Creek, VP Federal Sales	EMP 1000-HS	3000	L-5000, P-5000
<b>VS and Associates</b> 3160 Texas Hill Rd, Placerville, CA 95667 530.626.6924 ATTN: Linda Schiro <a href="mailto:Linda.schiro@vssecurityproducts.com">Linda.schiro@vssecurityproducts.com</a>	SDD Master	2800	L-5000, P-5000
<b>Whitaker Brothers Business Machines, Inc.</b> 3 Taft Court, Rockville, MD 20850 800.243.9226 / 301.354.3000 <a href="http://www.whitakerbrothers.com">www.whitakerbrothers.com</a> ATTN: Lauren Rossi <a href="mailto:lrossi@whitakerbrothers.com">lrossi@whitakerbrothers.com</a>	Datastroyer 105 Hard Drive Degausser	2800	L-5000, P-5000

# Product Listings

## Electromagnetic Degausser Equipment

### Standalone Degaussers

These are standalone electromagnetic degaussers that provide automatic one pass operation for tape & disk storage device erasure. On hard disk drives, all extraneous steel shielding materials (e.g., cabinets, casings, and mounting brackets), but not the hard disk assembly, must be removed before degaussing. The degaussers must be operated at their full magnetic field strength. Erasure of hard disk drives causes damage that prohibits their continued use.

Manufacturer / Distributor	Model	Tape (Oe)	Disk (Oe)
<b>Data Security, Inc.</b> 300 S 7th Street, Lincoln, NE 68508 402.434.5959 / 800.225.7554 <a href="http://www.datasecurityinc.com">www.datasecurityinc.com</a> ATTN: Renee Schafer <a href="mailto:rschafer@telesis-inc.com">rschafer@telesis-inc.com</a>	HD-6600 HD-1T	3000 3000	L-4200 L-5000, P-5000

# Product Listings

## Permanent Magnet Degausser Equipment

### Hand Degaussers

These are hand held permanent magnet degaussers. To degauss disk storage devices, wipe the degaussing wand onto each side of the disk platter so that the active magnetic portion of the degaussing wand completely covers the recording surface of the disk from hub to perimeter. Wipe at least three times always maintaining physical contact between the degaussing wand and the disk platter. If disks are part of a sealed hard disk drive assembly, they must be removed for degaussing. Erasure of hard disk drives causes damage that prohibits their continued use.

Manufacturer / Distributor	Model	Tape (Oe)	Disk (Oe)
<b>Applied Magnetics Laboratory, Inc.</b> 1404 Bare Hills Road Baltimore, MD 21209 410.583.2100	AML-6KG	Not Tested	L-5000, P-5000
<b>Proton Engineering, Inc.</b> P.O. Box 1852, Palm City, FL 34991 772.223.1685 ATTN: William Olliges <i>proton@bellsouth.net</i>	1100	Not Tested	L-5000, P-5000
<b>Whitaker Brothers Business Machines, Inc.</b> 3 Taft Court, Rockville, MD 20850 800.243.9226 / 301.354.3000 <i>www.whitakerbrothers.com</i> ATTN: Lauren Rossi <i>lrossi@whitakerbrothers.com</i>	Datastroyer 102-DG	Not Tested	L-5000, P-5000

### Single Pass Slot Hand Degaussers

These are enclosed permanent magnet degaussers that provide automatic one pass operation for tape and disk storage device erasure. Erasure of hard disk drives causes damage that prohibits their continued use.

Manufacturer / Distributor	Model	Tape (Oe)	Disk (Oe)
<b>Applied Magnetics Laboratory, Inc.</b> 1404 Bare Hills Road Baltimore, MD 21209 410.583.2100	Magnastroyer AML-MS1	2150	L-750
	Magnastroyer AML-MS2	Not Tested	L-5000, P-5000



# Product Listings

## Permanent Magnet Degausser Equipment

Manufacturer / Distributor	Model	Tape (Oe)	Disk (Oe)
<b>Data Security, Inc.</b> 300 S 7th Street, Lincoln, NE 68508 402.434.5959 / 800.225.7554 <a href="http://www.datasecurityinc.com">www.datasecurityinc.com</a> ATTN: Renee Schafer <a href="mailto:rschafer@telesis-inc.com">rschafer@telesis-inc.com</a>	LE-1 TE-1*	Not Tested 2800	L-5000, P-5000 Not Tested

*\* NOTE: IN THIS DEGAUSSER ERASURE OF TAPE STORAGE DEVICES REQUIRES AN ADDITIONAL STEP FOR SECURE ERASURE; AFTER THE FIRST ERASURE PASS, REMOVE THE TAPE CARTRIDGE, ROTATE THE CARTRIDGE 90 DEGREES, REPLACE IN THE TRAY, AND ERASE A SECOND TIME.*

### Dual Pass Slot Hand Degaussers

These are enclosed permanent magnet degaussers that provide two pass operation for disk storage device erasure. To properly degauss disk storage devices, pass the disk through the entry slot, turn the disk 90 degrees and slide the disk through the slot again. Erasure of hard disk drives causes damage that prohibits their continued use.

Manufacturer / Distributor	Model	Tape (Oe)	Disk (Oe)
<b>Proton Engineering, Inc.</b> P.O. Box 1852, Palm City, FL 34991 772.223.1685 ATTN: William Olliges <a href="mailto:proton@bellsouth.net">proton@bellsouth.net</a>	1090	Not Tested	L-750

# Product Listings

## Permanent Magnet Degausser Equipment

### Permanent Magnet Tabletop Degaussers

These are enclosed tabletop permanent magnet degaussers that provide automatic one pass operation for tape and disk storage device erasure. On hard disk drives, all extraneous steel shielding materials (e.g., cabinets, casings, and mounting brackets), but not the hard disk assembly, must be removed before degaussing. Erasure of hard disk drives causes damage that prohibits their continued use.

Manufacturer / Distributor	Model	Tape (Oe)	Disk (Oe)
<b>Data Security, Inc.</b> 300 S 7th Street, Lincoln, NE 68508 402.434.5959 / 800.225.7554 <a href="http://www.datasecurityinc.com">www.datasecurityinc.com</a> ATTN: Renee Schafer <a href="mailto:rschafer@telesis-inc.com">rschafer@telesis-inc.com</a>	HPM-1	2800	L-5000, P-5000
	HPM-1A	2800	L-5000, P-5000
	HPM-2	2800	L-5000, P-5000
	HPM-4	2800	L-5000, P-5000
	HPM-4E	2800	L-5000, P-5000

### Conveyor Degaussers

These are enclosed permanent magnet degaussers that are continuous duty conveyor belt types and provide one pass erasure for tape and disk storage devices. On hard disk drives, all extraneous steel shielding materials (e.g., cabinets, casings, and mounting brackets), but not the hard disk assembly, must be removed before degaussing. Erasure of hard disk drives causes damage that prohibits their continued use.

Manufacturer / Distributor	Model	Tape (Oe)	Disk (Oe)
<b>Data Security, Inc.</b> 300 S 7th Street, Lincoln, NE 68508 402.434.5959 / 800.225.7554 <a href="http://www.datasecurityinc.com">www.datasecurityinc.com</a> ATTN: Renee Schafer <a href="mailto:rschafer@telesis-inc.com">rschafer@telesis-inc.com</a>	LM-1	3000	L-5000, P-5000
	LM-1C	3000	L-5000, P-5000
	LM-4	3000	L-5000, P-5000
	LM-4E	3000	L-5000, P-5000
<b>Dexter Magnetic Technologies</b> 400 Karin Lane, Hicksville, NY 11801 908.668.4821 ATTN: Thomas Devaney	U5000	2800	L-5000, P-5000

# Product Listings

## Degausser Magnetic Field Verification Device

### Degausser Magnetic Field Verification Device

Sanitization verification in the palm of your hand. The Field CheckR has the unique ability to measure the strength of both vertical and horizontal magnetic fields present during the degaussing cycle then provides you with accurate, numerical results. The Field CheckR cycle time depends upon each particular degaussers cycle time and can be used continuously. The Field CheckR can be used in multiple degausser designs.

Manufacturer / Distributor	Model
<p><b>Data Security, Inc.</b> 300 S 7th Street, Lincoln, NE 68508 402.434.5959 / 800.225.7554 <a href="http://www.datasecurityinc.com">www.datasecurityinc.com</a> ATTN: Renee Schafer <a href="mailto:rschafer@telesis-inc.com">rschafer@telesis-inc.com</a></p>	<p>Field CheckR Compact Field CheckR</p>

# Product Listings

## Degaussers No Longer Manufactured

Manufacturer / Distributor	Model	Tape (Oe)	Disk (Oe)
<b>Ampex Corporation</b>	SE20	350	Not Tested
	SE750	750	Not Tested
<b>Applied Magnetics Laboratory, Inc.</b>	Data Muncher	350	Not Tested
<b>Bell &amp; Howell Company</b>	TD-800	350	Not Tested
<b>CMC Technology Corporation</b>	INTIMUS 20 000	2800	L-5000, P-5000
<b>Computer Link Corporation</b>	CF750	750	Not Tested
	515	350	Not Tested
	520	350	Not Tested
	530	350	Not Tested
	538	350	Not Tested
	540	350	Not Tested
<b>Consolidated Electroynamics</b>	TD-2903-4A	350	Not Tested
<b>Data Devices International</b>	Cambrian	350	Not Tested
<b>Data Security, Inc.</b>	APM-10	2800	L-5000, P-5000
	Type HD-2000 940-0001	750	L-1500
	Type HD-3000 905-0001	750	L-1800
	HD-6000	2500	L-3800
	Type II, 900-0001	750	Not Tested
	Type II, 902-0001	750	L-1800
<b>Datatape, Incorporated</b>	HDD-2000	750	L-1500
	TD-1700	1700	Not Tested
	TD-2903-4B	350	Not Tested
	TD-350	350	Not Tested
	TD-500	350	Not Tested
	TD-750	750	L-1800
	TD-900	900	L-1800

# Product Listings

## Degaussers No Longer Manufactured

Manufacturer / Distributor	Model	Tape (Oe)	Disk (Oe)
<b>Electro-Matic Products Company</b>	2PTFB15-17	350	Not Tested
	2PTFB15-18	350	Not Tested
	2PTFB15-113	350	Not Tested
	HE15FB-4	750	Not Tested
<b>Garner Products, Inc.</b>	REM-1400NSA	2800	L-5000, P-5000
<b>General Kinetics Incorporated</b>	K80	350	Not Tested
	K90	350	Not Tested
<b>Hewlett Packard Company</b>	3603A	350	Not Tested
<b>Integra Technologies Corporation</b>	D530	350	Not Tested
	D538	350	Not Tested
	D538-II	750	Not Tested
	D540	350	Not Tested
	I600-F4	Not Tested	L-350
<b>IXI, Incorporated</b>	5661c	350	L-2200
<b>J.C. Nickels, Incorporated</b>	1084 Bit Scrubber	Not Tested	L-350
<b>KYBE Corporation</b>	1100	350	Not Tested
<b>Metrum-Datatape</b>	HDD-2000	750	L-1500
	TD-1700	1700	Not Tested
	TD-350	350	Not Tested
	TD-750	750	L-1800
	TD-900	900	L-1800
<b>Precision Methods, Incorporated</b>	2000	Not Tested	L-350
<b>Proton Engineering, Inc.</b>	1084	Not Tested	L-350

# Product Listings

## Degaussers No Longer Manufactured

Manufacturer / Distributor	Model	Tape (Oe)	Disk (Oe)
<b>Red River Computer</b>	ME-RRC3	2800	L-5000, P-5000
	ME-RRC3M	2800	L-5000, P-5000
<b>Rimage Corporation</b>	5661C	350	L-2200
<b>Security Engineered Machinery / Toshiba</b>	ME-P3	2800	L-5000, P-5000
	ME-P3R	2800	L-5000, P-5000
	ME-P3E	2800	L-5000, P-5000
	ME-P3M	2800	L-5000, P-5000

# Addendum

## Coercivities

Magnetic Storage Device	Oersted (Oe)
9-Track Reel-to-Reel Computer Tape	300
TK50, TK70	350
3480, 3490E	520
SLR1, SLR2, TR-1, DC2120, DC6150, DC6525	550
SLR3, SLR4, SLR5, TR-3, DC9100, DC9120, ID-1, SLR24, SLR32, TR-4, ADR30, ADR50, ADR2-120	900
Mammoth 8mm, AIT-1 8mm, VXA-1 8mm	1320
M2 Mammoth2 8mm, VXA-2 8mm 230m	1350
AIT-2 8mm	1380
AIT-3 8mm, AIT-4 8mm, S-AIT-1 ½"	1400
Redwood SD-3	1515
DLT Tape III, DLT Tape IIIXT	1540
DD-2 19mm	1550
DTF-1	1579
DDS1: 4mm60m, 4mm90m	1590
D8: 8mm 112m, 8mm 160m	1600
MagstarMP: 3570-B, 3570-C, 3570C/XL, Magstar: 3590, 3590-E, STK-9840, STK-T9940	1625
TR-5, SLR40, SLR50, SLR60, SLR100, TR-7 (Travan 40 GB), SLR75, SLR140	1650
DDS2 4mm 120m	1750
DLTtape IV, DLTtape VS1, NCTP, DD-2QD (Quad Density) 19mm, LTO-Ultrium1	1850
SuperDLTtape1	1900
LTO-Ultrium2	2150
DDS3 4mm 125m	2250
DTF-2	2300
DDS4 4mm 150m, DAT-72 4mm 170m	2350
Enterprise 3592, STK-T10000 (T10K)	2500
Super DLTtape II	2600
DLTtape S4, LTO-Ultrium3	2650
LTO-4	2800
LTO-5	2800
LTO-6	3000
5 ¼" 360KB DD Minidisk	300

# Addendum

## Coercivities

Magnetic Storage Device	Oersted (Oe)
3.5" 720KB DD Microdisk, 5 1/4" 1.2MB HD Minidisk	650
3.5" 1.44MB HD Microdisk	720
SuperDisk 120MB	1500
Zip 100 MB Disk	1550
Zip 250 MB Disk, Zip 750 MB Disk	2250

Figure 1

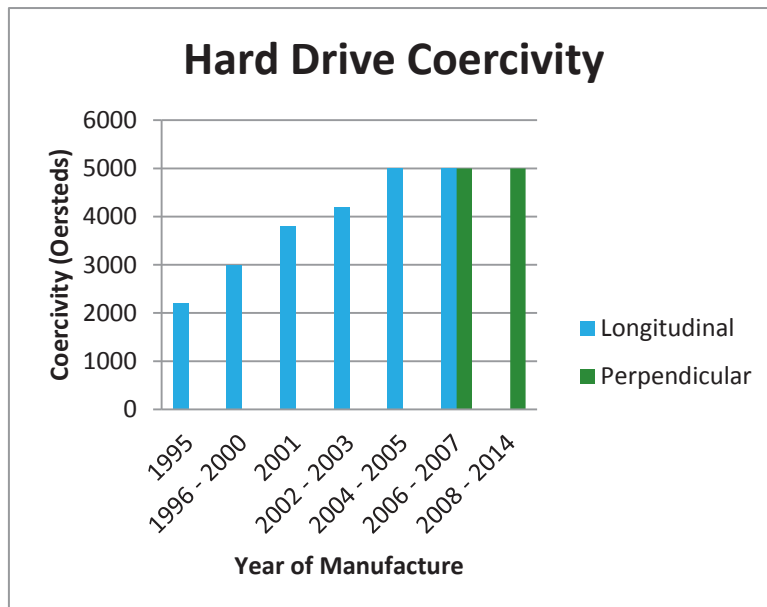


Figure 2



