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IDA REPORT R-321

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EMERGENCY DESTRUCTION OF INFORMATION STORING MEDIA
APPENDIX II: DESTRUCT TECHNOLOGY COMPENDIUM

M. M. G. Slusarczuk
W. T. Mayfield
S. R. Welke

December 1987

Prepared for
Space and Naval Warfare Systems Command
and
National Computer Security Center (NCSC)

DISTRIBUTION STATEMENT A
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1801 N. Beauregard Street, Alexandria, Virginia 22311-1772

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SECURITY CLASSIFICATION OF THIS PAGE

REPORT DOCUMENTATION PAGE

1a REPORT SECURITY CLASSIFICATION Unclassified		2b RESTRICTIVE MARKINGS	
2a SECURITY CLASSIFICATION AUTHORITY		3 DISTRIBUTION/AVAILABILITY OF REPORT Approved for public release, distribution unlimited.	
2b DECLASSIFICATION/DOWNGRADING SCHEDULE		5 MONITORING ORGANIZATION REPORT NUMBER(S)	
4 PERFORMING ORGANIZATION REPORT NUMBER(S) IDA Report R-321		7a NAME OF MONITORING ORGANIZATION OUSDA, DIMO	
6a NAME OF PERFORMING ORGANIZATION Institute for Defense Analyses		6b OFFICE SYMBOL IDA	
6c ADDRESS (City, State, and Zip Code) 1801 N. Beauregard St. Alexandria, VA 22311		7b ADDRESS (City, State, and Zip Code) 1801 N. Beauregard St. Alexandria, VA 22311	
8a NAME OF FUNDING/SPONSORING ORGANIZATION Space and Naval Warfare Command		8b OFFICE SYMBOL (if applicable) SPAWAR	
8c ADDRESS (City, State, and Zip Code) Code 321 Washington, D.C. 20365-5100		9 PROCUREMENT INSTRUMENT IDENTIFICATION NUMBER MDA 903 84 C 0031	
8d ADDRESS (City, State, and Zip Code) Code 321 Washington, D.C. 20365-5100		10 SOURCE OF FUNDING NUMBERS	
		PROGRAM ELEMENT NO.	PROJECT NO.
		TASK NO. T-Z5-341	WORK UNIT ACCESSION NO.
11 TITLE (Include Security Classification) Emergency Destruction of Information Storing Media. Appendix II: Destruct Technology Compendium (U)			
12 PERSONAL AUTHOR(S) M.M.G. Sussarczuk, W.T. Mayfield, S.R. Welke			
13a TYPE OF REPORT Final	13b TIME COVERED FROM _____ TO _____	14 DATE OF REPORT (Year, Month, Day) 1987 December	15 PAGE COUNT 80
16 SUPPLEMENTARY NOTATION			
17 COSATI CODES		18 SUBJECT TERMS (Continue on reverse if necessary and identify by block number)	
FIELD	GROUP	SUB-GROUP	
		Computer security; destruction; anti-compromise emergency destruction (ACED); information; terrorism.	
19 ABSTRACT (Continue on reverse if necessary and identify by block number)			
This IDA Report was prepared for the Commander, Space and Naval Warfare Systems Command and the National Computer Security Center. It provides a basis for analyzing the appropriateness of various destruction technologies in the emergency destruction of information storing media. The support task was structured as a multi-year effort, with interim reports and updates, ultimately leading to a research plan for developing specific destruction techniques, equipment, and procedures. The prior interim reports are incorporated into this final iteration. The Report comprises three volumes: Emergency Destruction of Information Storing Media; Appendix I, Analysis Matrix; and Appendix II, Destruct Technology Compendium.			
20 DISTRIBUTION/AVAILABILITY OF ABSTRACT <input checked="" type="checkbox"/> UNCLASSIFIED/UNLIMITED <input type="checkbox"/> SAME AS RPT. <input type="checkbox"/> DTIC USERS		21 ABSTRACT SECURITY CLASSIFICATION Unclassified	
22a NAME OF RESPONSIBLE INDIVIDUAL Mr. Terry Mayfield		22b TELEPHONE (Include area code) (703) 824-5524	22c OFFICE SYMBOL IDA/CSED

IDA REPORT R-321

**EMERGENCY DESTRUCTION OF INFORMATION STORING MEDIA
APPENDIX II: DESTRUCT TECHNOLOGY COMPENDIUM**

M. M. G. Slusarczuk
W. T. Mayfield
S. R. Welke

December 1987



INSTITUTE FOR DEFENSE ANALYSES

Contract MDA 903 84 C 0031
Task T-Z5-341

APPENDIX II

Destruct Technology Compendium

This Compendium has been compiled by the Institute for Defense Analyses (IDA) and is intended to serve as a reference to existing destruct machinery. The information contained within has been assembled from available manufacturers' literature. This is an evolving document and, as such, is known to be incomplete. The cutoff date for devices included in this document is November 1987. IDA does not endorse any of the manufacturers' products, nor has IDA independently verified the manufacturer's claims. IDA merely presents an organized listing of available products.

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Section A

Paper Shredders

This section includes shredders available from the following companies. The company names have been abbreviated within the table and the abbreviation is indicated to the left. The devices have been ordered by manufacturer. Devices approved by the NSA are identified per Annex B to NTISSI No. 4004, dated March 1987, which is available from DIRNSA, Attn Y251.

Allegheny	Allegheny Paper Shredder Corp. P. O. Drawer E Delmont, PA 15626
Analytical	Analytical Systems Inc. 11058 Lee Highway Fairfax, VA 22030
Benchmark	Benchmark Security Systems, Inc 2000 N. 16th Street Arlington, VA 22201
CAC	Cummins-Allison Corporation 891 Freehanville Drive Mt. Prospect, IL 60056
Datatech	Datatech Corp. Union Hill and Clipper Rds. West Conshohocken, PA 19428
Fellowes	Fellowes Manufacturing Co. 1789 Norwood Avenue Itasca, IL 60143

GBC

**General Binding Corporation
One GBC Plaza
Northbrook, IL 60062**

Hunt

**Hunt Manufacturing Co.
1405-T Locust St.
Philadelphia, PA**

IPS

**Industrial Paper Shredders, Inc.
707 South Ellsworth Avenue
Salem, Ohio 44460**

MBM

**Michael Business Machines Corporation
145 West 45th Street
New York, NY 10036**

Monroe

**Monroe Systems for Business
The American Road
Morris Plains, NJ**

Novatec

**Novatec Corporation
1360 Lincoln Ave.
Holbrook, NY 11741**

Ricoh

**Ricoh Corporation
West Caldwell, NJ**

SEM

**Security Engineered Machinery Co., Inc.,
5 Walkup Drive
Westboro, MA 01581**

Shredex

**Shredex, Inc.
55 Central Drive, Dept. TR
Farmingdale, NY 11735**

Standard

**Standard Duplicating Machines, Corp.
10 Connector Road
Andover, MA 01810**

Wilson Jones

**Wilson Jones Company
6150 Touhy Ave.
Chicago, IL 60648**

Model Name	Estimated* Throughput (lbs/hr)	Shred Width	Sheets Per Feed (20#)	Shredding Speed	Feed Opening	Electrical (V/ Hz) (motor size)	Dimensions (HxWxD) (weight)	NSA Approved	Special Characteristics
Allegheny Z-1000	17,001	1"	1000	60 fpm	30"	440/3/60 (40 HP)	11'x5'x13' (9 ton)		36" Feed Opening available; capacitor start motor
Allegheny J-25	425	5/16"	25	60 fpm	16"	115/1/60 (0.5 HP)	25-1/8"x19-5/8"x36-1/2" (235 lbs)		capacitor start motor
Allegheny 10-36	204	1/4"	12	60 fpm	10"	115/1/60 (0.33 HP)	21-1/4"x20"x31-1/2" (45 lbs)		
Allegheny 12-15	255	1/4"	15	60 fpm	15"	115/1/60 (0.25 HP)	21-1/8"x18-1/8"x35-3/4" (100 lbs)		capacitor start motor
Allegheny 15-15	255	1/4"	15	60 fpm	15"	115/1/60 (0.25 HP)	21-1/8"x18-1/8"x35-3/4" (105 lbs)		capacitor start motor
Allegheny 15-25	425	1/4"	25	60 fpm	15"	115/1/60 (0.33 HP)	21-1/8"x18-1/8"x35-3/4" (120 lbs)		capacitor start motor
Allegheny J-35	595	5/16"	35	60 fpm	16"	115/1/60 (0.75 HP)	25-1/8"x19-5/8"x36-1/2" (235 lbs)		capacitor start motor
Allegheny J-45	765	5/16"	45	60 fpm	16"	115/1/60 (0.75 HP)	25-1/8"x19-5/8"x36-1/2" (235 lbs)		capacitor start motor
Allegheny J-55	935	5/16"	55	60 fpm	16"	115/1/60 (1 HP)	25-1/8"x19-5/8"x36-1/2" (240 lbs)		capacitor start motor

* Estimated Throughput = (feed/11 in) x (Sheets Per Feed) x (12 in/ft) x (Shredding Speed) x (60 min/hr) x (20 lbs/4620 sheets)

Model Name	Estimated* Throughput (lbs/hr)	Shred Width	Sheets Per Feed (20#)	Shredding Speed	Feed Opening	Electrical (V/ /Hz (motor size)	Dimensions (HxWxD) (weight)	NSA Approved	Special Characteristics
Allegheny C-J-65	1,275	5/16"	75	60 fpm	16"	115/1/60 (1.5 HP)	26-3/4"x38-1/4"x42-1/2" (650 lbs)		220 V available; capacitor start motor
Allegheny 16-75C	1,275	5/16"	75	60 fpm	16"	208/3/60 (2 HP)	30"x52"x44" (700 lbs)		220 & 440 V available; capacitor start motor
Allegheny 16-106C	1,785	5/16"	105	60 fpm	16"	208/3/60 (3 HP)	30"x52"x44" (750 lbs)		220 & 440 V available; capacitor start motor
Allegheny 16-150C	2,550	5/16"	150	60 fpm	16"	208/3/60 (5 HP)	30"x52"x44" (1350 lbs)		220 & 440 V available; capacitor start motor
Allegheny 16-220C	3,740	1/2"	220	60 fpm	18"	208/3/60 (10 HP)	45"x48"x68" (3500 lbs)		220 & 440 V available; capacitor start motor
Allegheny 16-300C	5,100	1/2"	300	60 fpm	20"	208/3/60 (15 HP)	57"x60"x68" (4500 lbs)		220 & 440 V available; capacitor start motor
Analytical Barracuda Microcut 1484 T	20	1/40"x5/16"	3	23 fpm	4.5"	110/1/60 (1/4 hp)	10"x11-1/2"x12" (42 lbs)	Y	
Analytical Barracuda Microcut 1484 C	20	1/40"x5/16"	3	23 fpm	4.5"	110/1/60 (1/4 hp)	17"x11-1/2"x16-1/2" (45 lbs)	Y	

* Estimated Throughput = (feed/11 in) x (Sheets Per Feed) x (12 in/ft) x (Shredding Speed) x (60 min/hr) x (20 lbs/4620 sheets)

Model Name	Estimated* Throughput (lbs/hr)	Shred Width	Sheets Per Feed (20#)	Shredding Speed	Feed Opening	Electrical (V/ Hz) (motor size)	Dimensions (HxWxD) (weight)	MSA Approved	Special Characteristics
Analytical Barracuda 73010	85	1/32"x1/16"	7-10	30fpm	10"	110V/60 (2 x 1/4 hp)	34-1/2"x19"x16" (150)		
Benchmark Allen Model II Crosscut High Security Shredder	170	1/35"x3/8"	10	60 fpm	13-1/2"	115V/60 (0.2 HP)	28-1/4"x20"x42-1/2" (281 lbs)	Y	
CAC 36	260	1/4"	17	54 fpm	15"	110V/60 (two motors at 0.2 HP)	17"x18"x10" (67 lbs)		
CAC 36-01	168	1/8"	11	54 fpm	15"	110V/60 (two motors at 0.2 HP)	17"x18"x10" (67 lbs)		
CAC 38	26	1/32"x1/2"	6	15 fpm	10"	115V/60 (two motors at 0.2 HP)	17-1/2"x15"x9-3/4" (80 lbs)	Y	
CAC 45	368	1/4"	20	65 fpm	18-3/4"	110V/60 (two motors at 0.2 HP)	19"x23"x18-1/2" (88 lbs)		
CAC 48	170	1/35"x3/8"	10	60 fpm	13-1/2"	115V/60 (0.2 HP)	28-1/4"x20"x42-1/2" (281 lbs)	Y	
CAC 56	646	5/32"x1-9/16"	40	57 fpm	17"	230V/60 (3 HP)	28"x20"x44-1/2" (324 lbs)		
CAC	601	1/4"	40	53 fpm	16"	110V/60	24"x18"x11"		

* Estimated Throughput = (feed/11 in) x (Sheets Per Feed) x (12 in/ft) x (Shredding Speed) x (60 min/hr) x (20 lbs/4620 sheets)

Model Name	Estimated* Throughput (lbs/hr)	Shred Width	Sheets Per Feed (20#)	Shredding Speed	Feed Opening	Electrical (V/ /Hz) (motor size)	Dimensions (HxWxD) (weight)	NSA Approved	Special Characteristics
195						(1.5 HP)	(140 lbs)		
CAC 500	69 or 109	5/64" or 5/32"	7 or 11	35 fpm	8-7/8"	110/1/60 (0.25 HP)	14-3/4"x10"x25" (43 lbs)		
CAC 501	58 or 131	5/64" to 1/4"	7 to 16	29 fpm	8-13/16"	110/1/60 (0.25 HP)	14-3/4"x15-1/2"x30-1/2" (77 lbs)		
CAC 1400 Cross-Cut	12,468	5/8"x1/2"	20	2200 fpm	16"	220/3/60 (4.1 HP)	53"x62"x44" (890 lbs)		
CAC 1400	18,701 or 56,104	5/32" to 1/2"	30 to 90	2200 fpm	16"	220/3/60 (5.5 HP)	52"x62"x44" (890 lbs)		
CAC 1420	7,481 or	5/32" to	30 to	880 fpm	19-1/2"	220/3/60 (5 HP)	37-1/2"x92-1/2"x57-1/2" (2050 lbs)		
Datsatech Inter shredd 33	92	1/35"x1/2"	6	54 fpm	11/2"	110/1/60 (two motors at 0.2 HP)	8"x17"x13" (80 lbs)	Y	other voltages available
Datsatech Inter shredd 33C	94	1/35"x1/2"	6	55 fpm	10"	110/1/60 (two motors at 0.25 HP)	32"x23"x19" (125 lbs)	Y	other voltages available
Datsatech Inter shredd 007-S	187	1/35"x3/8"	12	55 fpm	13"	110/1/60 (1.5 HP)	43"x26"x20" (299 lbs)	Y	other voltages available

* Estimated Throughput = (feed/11 in) x (Sheets Per Feed) x (12 in/ft) x (Shredding Speed) x (60 min/hr) x (20 lbs/4620 sheets)

Model Name	Estimated* Throughput (lbs/hr)	Shred Width	Sheets Per Feed (20#)	Shredding Speed	Feed Opening	Electrical (V/ /Hz) (motor size)	Dimensions (HxWxD) (weight)	NSA Approved	Special Characteristics
(also 007)									
Datatech Simplex	153	1/8"	10	54 fpm	9"	110/1/60 (0.2 HP)	22"x12"x12" (28 lbs)		other voltages available
Datatech Inrimus 314	214	1/8"	14	54 fpm	12"	110/1/60 (two motors at 0.2 HP)	10"x17"x20" (66 lbs)		other voltages available
Datatech Inrimus 316	291	1/4"	19	54 fpm	12"	110/1/60 (two motors at 0.2 HP)	10"x17"x20" (66 lbs)		other voltages available
Datatech Inrimus 415	214 to 291	1/8" to 1/4"	14 to 19	54 fpm	18"	110/1/60 (two motors at 0.2 HP)	10"x23"x20" (82 lbs)		other voltages available
Datatech Inrimus 407	612	1/4"	40	54 fpm	16"	110/1/60 (1.5 HP)	10"x24"x16" (180 lbs)		baler and other voltages available
Datatech Inrimus 444	708	5/32"x1-1/2"	50	50 fpm	18"	220/3/60 (3 HP)	62"x27"x20" (351 lbs)		other voltages available
Datatech Inrimus 550-e	2,975 to 3,471	1/3" to 1/2"	300 to 350	35 fpm	19"	220/3/60 (5.36 HP)	61"x47"x70" (1408 lbs)		baler and other voltages available
Datatech Inrimus 550-e military	2,479	5/32"x1-1/4"	250	35 fpm	19"	220/3/60 (5.36 HP)	61"x47"x70" (1408 lbs)		other voltages available

* Estimated Throughput = (feed/11 in) x (Sheets Per Feed) x (12 in/ft) x (Shredding Speed) x (60 min/hr) x (20 lbs/4620 sheets)

Model Name	Estimated* Throughput (lbs/hr)	Shred Width	Sheets Per Feed (20#)	Shredding Speed	Feed Opening	Electrical (V/ /Hz) (motor size)	Dimensions (HxWxD) (weight)	NSA Approved	Special Characteristics
Fellowes PowerShred 110	128	1/8"	10	45 fpm	9"	110/1/60 (0.25 HP)	12"x11-1/2"x20-1/4" (26 lbs)		
Fellowes PowerShred 210	170	1/8"	10	60 fpm	8-1/2"	110/1/60 (0.25 HP)	16-5/8"x7"x9-1/4" (28 lbs)		
Fellowes PowerShred 310	306	1/4"	18	60 fpm	10"	110/1/60 (0.25 HP)	17-1/2"x8"x11-7/8" (40 lbs)		
Fellowes PowerShred 410	289	1/4"	17	60 fpm	17-1/2"	110/1/60 (two motors at 0.25 HP)	25-1/4"x9-3/4"x14-3/4" (87 lbs)		
Fellowes PowerShred 710	102	1/8"x5/16"	12	30 fpm	12"	110/1/60 (two motors at 0.25 HP)	20-1/8"x36-5/8"x15-1/2" (110 lbs)		
Fellowes PowerShred 810	68	1/32"x7/16"	8	30 fpm	10"	110/1/60 (two motors at 0.25 HP)	20-1/8"x36-5/8"x15-1/2" (110 lbs)	Y	
Fellowes PowerShred 910	306	1/6"x1-1/2"	40	27 fpm	16"	110/1/60 (1.5 HP)	27-9/16"x19-3/4"x39-3/4" (200 lbs)		
Fellowes PowerShred 510	595	1/4"	35	60 fpm	16"	110/1/60 (1.5 HP)	19-3/4"x27-1/2"x39-3/4" (200 lbs)		240 V & 50 Hz available
GBC Shredmaster	510	1/4"	10	180 fpm	16"	115/1/60 (0.33 HP)	8-3/4"x26-3/4"x19-1/8" (82 lbs)		

* Estimated Throughput = (feed/11 in) x (Sheets Per Feed) x (12 in/ft) x (Shredding Speed) x (60 min/hr) x (20 lbs/4620 sheets)

Model Name	Estimated* Throughput (lbs/hr)	Shred Width	Sheets Per Feed (20#)	Shredding Speed	Feed Opening	Electrical (V/ /Hz) (motor size)	Dimensions (HxWxD) (weight)	NSA Approved	Special Characteristics
1636									
GBC Shredmaster 1656	510	1/4"	18	100 fpm	16"	115/1/60 (0.75 HP)	8-3/4"x26-3/4"x19-1/8" (90 lbs)		
GBC Shredmaster 1676	431	1/4"	38	40 fpm	16"	115/1/60 (0.75 HP)	8-3/4"x26-3/4"x19-1/8" (130 lbs)		
GBC Shredmaster 106	85	1/4"	10	30 fpm	9"	115/1/60 (0.17 HP)	9"x16"x16" (29 lbs)		
GBC Shredmaster 1236	340	1/4"	12	100 fpm	12"	115/1/60 (0.33 HP)	8-3/4"x22-3/4"x19-1/8" (74 lbs)		
GBC Shredmaster 1254	397	5/32"	14	100 fpm	12"	115/1/60 (0.75 HP)	8-3/4"x22-3/4"x19-1/8" (78 lbs)		
GBC Shredmaster 1256	510	1/4"	18	100 fpm	12"	115/1/60 (0.75 HP)	8-3/4"x22-3/4"x19-1/8" (78 lbs)		
GBC Shredmaster 1034	111	5/32"	6	65 fpm	10"	115/1/60 (0.33 HP)	7-1/2"x16-1/2"x16-1/2" (45 lbs)		
GBC Shredmaster 1036	184	1/4"	10	65 fpm	10"	115/1/60 (0.33 HP)	7-1/2"x16-1/2"x16-1/2" (45 lbs)		

* Estimated Throughput = (feed/11 in) x (Sheets Per Feed) x (12 in/ft) x (Shredding Speed) x (60 min/hr) x (20 lbs/4620 sheets)

Model Name	Estimated* Throughput (lbs/hr)	Shred Width	Sheets Per Feed (20#)	Shredding Speed	Feed Opening	Electrical (V/Hz) (motor size)	Dimensions (HxWxD) (weight)	NSA Approved	Special Characteristics
GBC Shredmaster CT-X	15	3/32"x3/4"	4	13 fpm	9"	115/1/60 (0.13 HP)	20"x13-1/2"x13-1/2" (40 lbs)		
GBC Shredmaster 200CC	23	1/32"x1/2"	3	27 fpm	8-3/4"	115/1/60 (0.4 HP)	29-1/2"x15-1/2"x15-1/2" (82 lbs)	Y	
GBC Shredmaster 920	25	5/32"	4	22 fpm	9-1/4"	115/1/60 (0.14 HP)	18-1/2"x12-1/2"x12-1/2" (20.5 lbs)		
GBC Shredmaster 400	1,156 to 2,168	5/32" to 1/2"	40 to 75	102 fpm	16"	208/3/60 (5.5 HP)	44"x52-1/2"x62-1/4" (860 lbs)		220 & 440 V available
GBC Shredmaster 400S	204 or 383	1/32"x1/2" or 3/32"x1/2"	6 or 15	90 fpm	16"	208/3/60 (5.5 HP)	44"x52-1/2"x62-1/4" (860 lbs)		220 & 440 V available
GBC Shredmaster 910	25	5/32"	4	22 fpm	9-1/4"	115/1/60 (0.14 HP)	17-1/2"x12-1/2"x12-1/2" (20.5 lbs)		
GBC Shredmaster CT	58	5/32"	12	17 fpm	9"	115/1/60 (0.13 HP)	20"x13-1/2"x13-1/2" (40 lbs)		
Hunt 1690	57	15/64"	5	40 fpm	8-3/4"	110/1/60 (fractional)	19-1/2"x16-1/8"x12" (22 lbs)		220 V available
IPS	255	1/4"	15	60 fpm	10"	115/1/60	8"x16-3/4"x16-3/4"		

* Estimated Throughput = (feed/11 in) x (Sheets Per Feed) x (12 in/ft) x (Shredding Speed) x (60 min/hr) x (20 lbs/4620 sheets)

Model Name	Estimated* Throughput (lbs/hr)	Shred Width	Sheets Per Feed (20g)	Shredding Speed	Feed Opening	Electrical (V/ /Hz) (motor size)	Dimensions (HxWxD) (weight)	NSA Approved	Special Characteristics
Security 1						(0.33 HP)	(56 lbs)		
IPS Data-Shred 13	238	1/4"	12	70 fpm	13"	115/1/60 (0.33 HP)	8"x19-3/4"x16-3/4" (64 lbs)		
IPS Data-Shred 16	510	1/4"	30	60 fpm	16"	115/1/60 (1 HP)	11"x25"x16" (240 lbs)		
IPS Superior	up to 1,913	1/4" to 1/2"	up to 90	75 fpm	16"	208/3/60 (3 HP)	43"x30"x58" (770 lbs)		230 & 460 V available
IPS 20-S	up to 7,651	1/4" to 1"	125 to 300	up to 90 fpm	20"	208/3/60 (0.5 HP)	46-3/4"x42-3/4"x78" (2100 lbs)		230 & 460 V available
IPS 16	up to 4,052	1/8" to 1/2"	130	up to 110 fpm	16"	208/3/60 (3 HP)	46"x34"x54" (625 lbs)		230 & 460 V available
IPS 16-B	up to 4,052	1/8" to 1/2"	130	up to 110 fpm	16"	208/3/60 (10 HP)	46"x34"x54" (665 lbs)		with compression roll 230 & 460 V available
IPS 20	up to 6,234	1/8" to 1/2"	200	up to 110 fpm	20"	208/3/60 (10 HP)	45"x42"x80" (1300 lbs)		230 & 460 V available
IPS 20-B	up to 6,234	1/8" to 1/2"	200	up to 110 fpm	20"	208/3/60 (10 HP)	45"x42"x80" (1400 lbs)		with compression roll; 230 & 460 V available

* Estimated Throughput = (feed/11 in) x (Sheets Per Feed) x (12 in/ft) x (Shredding Speed) x (60 min/hr) x (20 lbs/4620 sheets)

Model Name	Estimated* Throughput (lbs/hr)	Shred Width	Sheets Per Feed (20#)	Shredding Speed	Feed Opening	Electrical (V/ /Hz) (motor size)	Dimensions (HxWxD) (weight)	NSA Approved	Special Characteristics
IPS Cross Shred 16	up to 1,913	1/4"x3/8" or 1/2"x3/8"	up to 90	75 fpm	16"	230/3/60 (2 & 3 HP)	30"x43"x70" (1000 lbs)		460 V available
IPS Cross Shred 20	up to 3,570	1/4"x3/8" or 3/8"x1"	up to 140	90 fpm	20"	230/3/60 (3 & 7.5 HP)	43"x47"x66" (2800 lbs)		460 V available
MSM DestroyIt 610 CCAM Crosscut	75	1/32"x7/16"	8	33	8-3/4"	115/1/60 (1 HP)	10"x17"x19-3/4" (95)	Y	
MSM DestroyIt 2201	28 to 75	3/32" to 1/4"	3 to 8	33 fpm	8-5/8"	115/1/60 (0.13 HP)	13-3/8"x20-1/2"x8-5/8" (39 lbs)		
MSM DestroyIt 2202	28 to 75	3/32" to 1/4"	3 to 8	33 fpm	8-5/8"	115/1/60 (0.13 HP)	13-3/8"x22-5/8"x12-1/4" (49 lbs)		
MSM DestroyIt 2203	28 to 75	3/32" to 1/4"	3 to 8	33 fpm	8-5/8"	115/1/60 (0.13 HP)	14-3/4"x22-1/4"x8-1/2" (44 lbs)		
MSM DestroyIt 2204	28 to 75	3/32" to 1/4"	3 to 8	33 fpm	8-5/8"	115/1/60 (0.13 HP)	14-3/4"x27-1/4"x14-3/4" (58 lbs)		
MSM DestroyIt 2205	95 to 214	3/32" to 1/4"	8 to 18	42 fpm	8-3/4"	115/1/60 (0.5 HP)	15-1/2"x33-1/4"x16" (86 lbs)		

* Estimated Throughput = (feed/11 in) x (Sheets Per Feed) x (12 in/ft) x (Shredding Speed) x (20 lbs/4620 sheets)

Model Name	Estimated* Throughput (lbs/hr)	Shred Width	Sheets Per Feed (20#)	Shredding Speed	Feed Opening	Electrical (V/ /Hz) (motor size)	Dimensions (HxWxD) (weight)	NSA Approved	Special Characteristics
MBM Destroyit 2206	95 to 214	3/32" to 1/4"	6 to 18	42 fpm	8-3/4"	115/1/60 (0.5 HP)	15-1/2"x33-1/4"x16" (86 lbs)		
MBM Destroyit 2206 Cross/Cut	60	3/32"x5/8"	7	30 fpm	8-3/4"	115/1/60 (0.5 HP)	33-1/4"x15-1/2"x16" (88 lbs)		
MBM Destroyit 3104	191 to 425	3/32" to 1/4"	9 to 20	75 fpm	12"	115/1/60 (1 HP)	18-1/4"x35-3/4"x17" (157 lbs)		
MBM Destroyit 3104 Cross/Cut	97	3/32"x5/8"	8	43 fpm	12"	115/1/60 (1 HP)	18-3/4"x35-3/4"x17" (161 lbs)		
MBM Destroyit 4001	170 or 234	3/16" or 1/4"	8 or 11	75 fpm	16"	115/1/60 (0.63 HP)	22-1/2"x35-3/4"x17" (167 lbs)		
MBM Destroyit 4001 Cross/Cut	97	3/32"x5/8"	8	43 fpm	16"	115/1/60 (1 HP)	22-1/2"x35-3/4"x17" (172 lbs)		
MBM Destroyit 16" Standard	708	1/4"	25	100 fpm	16"	115/1/60 (1.5 HP)	22-3/4"x27-3/4"x52-3/4" (214 lbs)		
MBM Destroyit 16" Economy	402	1/4"	20	71 fpm	16"	115/1/60 (1.25 HP)	22-3/4"x37-3/4"x52-3/4" (194 lbs)		
MBM Destroyit	758 to	1/8" to	25 to	107 fpm	16"	115/1/60 (4 HP)	45-1/2"x48-1/4"x51-1/2" (463 lbs)		

* Estimated Throughput = (feed/11 in) x (Sheets Per Feed) x (12 in/ft) x (Shredding Speed) x (20 lbs/4620 sheets)

Model Name	Estimated* Throughput (lbs/hr)	Shred Width	Sheets Per Feed (20#)	Shredding Speed	Feed Opening	Electrical (V/ /Hz) (motor size)	Dimensions (HxWxD) (weight)	NSA Approved	Special Characteristics
4103	2,274	3/8"	75						
MEM Destroyit 4104	1,213 to 2,880	1/8" to 3/8"	40 to 95	107 fpm	16"	115/1/60 (5.25 HP)	53-1/2"x48-1/4"x54" (618 lbs)		
MEM Destroyit 5000	2,980	1/2"	95	107 fpm	16"	220/3/60 (S -> 5.25 HP, B -> 3 HP)	36"x2"9x90" (935 lbs)		with electro-hydraulic baker
MEM Destroyit Cross-Cut	26	1/32"x1/2"	2	45 fpm	8-3/4"	110/1/60 (0.5 HP)	17"x12-3/4"x18-3/4" (115 lbs)	Y	
MEM Destroyit 12" Compact	604	3/16"x1/4"	30	71 fpm	12"	110/1/60 (1.33 HP)	21"x38"x16" (278 lbs)		
MEM Destroyit 2200	8	3/16"	4	7 fpm	8-3/4"	115/1/60 (0.06 HP)	14-1/2"x20-3/4"x8-1/4" (16-3/4 lbs)		
Monroe PM-200	10	1/16"x3/4"	2	17 fpm	3-1/8"	115/1/60 (0.25 HP)	6-1/4"x8-3/4"x8-1/2" (17 lbs)		
Monroe PM-210	45	1/8"x7/8"	6	20 fpm	8-5/8"	115/1/60 (0.25 HP)	20"x14"x10" (37 lbs)		
Monroe PM-215	147	1/12"x1"	20	26 fpm	8-5/8"	110/1/60 (1 HP)	29-3/4"x18-1/2"x24" (135 lbs)		

* Estimated Throughput = (feed/11 in) x (Sheets Per Feed) x (12 in/ft) x (Shredding Speed) x (60 min/hr) x (20 lbs/4620 sheets)

Model Name	Estimated* Throughput (lbs/hr)	Shred Width	Sheets Per Feed (20#)	Shredding Speed	Feed Opening	Electrical (V/ Hz) (motor size)	Dimensions (HxWxD) (weight)	NSA Approved	Special Characteristics
Monroe PM-220	139	1/12"x1"	7	70 fpm	16"	110V/60 (1 HP)	38-1/2"x25-3/4"x28-1/2" (200 lbs)		
Novatec Novashred 200	91	5/32"	8	40 fpm	9"	110V/60 (0.25 HP)	12"x12"x22" (35 lbs)		
Novatec Novashred 201	91	5/32"	8	40 fpm	9"	110V/60 (0.25 HP)	12"x12"x22" (35 lbs)		
Novatec Novashred 202	91	5/32"	8	40 fpm	9"	110V/60 (0.25 HP)	12"x12"x33" (50 lbs)		
Novatec Novashred 203	91	5/32"	8	40 fpm	9"	110V/60 (0.25 HP)	12"x12"x30" (45 lbs)		
Novatec Novashred 800	255	1/4"	15	60 fpm	12"	110V/60 (0.25 HP)	16-1/2"x15-1/2"x31" (77 lbs)		
Novatec Novashred 801	238 to 374	5/32" to 1/4"	14 to 22	60 fpm	12"	110V/60 (two motors at 0.25 HP)	19"x17"x31" (100 lbs)		
Novatec Novashred 813	680	1/4"	40	60 fpm	17"	110V/20 (1.5 HP)	24"x24"x39" (203 lbs)		
Novatec	95	1/10"x1-3/16"	8	42 fpm	18"	110V/20	24"x24"x39"		

* Estimated Throughput = (feed/11 in) x (Sheets Per Feed) x (12 in/ft) x (Shredding Speed) x (60 min/hr) x (20 lbs/4620 sheets)

Model Name	Estimated* Throughput (lbs/hr)	Shred Width	Sheets Per Feed (20#)	Shredding Speed	Feed Opening	Electrical (V/ Hz) (motor size)	Dimensions (HxWxD) (weight)	NSA Approved	Special Characteristics
Novethred 815						(two motors at 0.25 HP)	(180 lbs)		
Novatic Novethred 905	980	5/32"x1-1/2"	50	48 fpm	17"	220/3/60 (3 HP)	24"x24"x60" (305 lbs)		
Novatic Novethred 806	68	1/36"x1/2"	5	48 fpm	10-1/2"	110/1/60 (two motors at 0.25 HP)	23"x19"x32" (125 lbs)	Y	
Novatic Novethred 908S	177	1/36"x3/8"	13	48 fpm	16-1/2"	110/1/60 (1.5 HP)	24"x24"x39" (320 lbs)		
Novatic Novethred 205	91	5/32"	8	40 fpm	9"	110/1/60 (0.25 HP)	20"x13"x13" (31 lbs)		
Novatic Novethred 919	1,275 to 2,550	5/32" to 1/2"	150 to 300	30 fpm	20"	220/3/60 (5.5 HP)	47-1/2"x71"x60-1/2" (1,430 lbs)		
Ricoh 2700 FL	160	1/8"x63/64"	12	47 fpm	10-5/8"	115/1/60 (0.5 HP)	21-1/4"x19-7/8"x32-1/2" (188 lbs)		
Ricoh 2403 DS	56	1/16"x45/64"	6	33 fpm	9-29/64"	115/1/60 (0.4 HP)	9-7/8"x18-1/2"x27-1/2" (70 lbs)		
Ricoh 2403 SP	28	1/32"x25/64"	3	33 fpm	9-29/64"	115/1/60 (0.4 HP)	15-5/8"x11"x24-3/8" (70 lbs)		

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Model Name	Estimated* Throughput (lbs/hr)	Shred Width	Sheets Per Feed (20#)	Shredding Speed	Feed Opening	Electrical (V/ /Hz) (motor size)	Dimensions (HxWxD) (weight)	NSA Approved	Special Characteristics
Flooh 2202 DX	56	1/16"x45/64"	6	33 fpm	8-21/32"	115/1/60 (0.4 HP)	9-1/2"x15-3/4"x21-1/2" (64 lbs)		
Flooh 4000 FL	133	1/8"x63/64"	10	47 fpm	15-3/4"	115/1/60 (0.5 HP)	25-1/2"x21-5/8"x40" (200 lbs)		
SEM Cross-Cut	31	1/32"x1/2"	2	55 fpm	8-3/4"	120/1/60 (1 HP)	19-3/4"x19-3/4"x17" (100 lbs)		
SEM DW	190	1/4"	16	42 fpm	8-3/4"	120/1/60 (0.33 HP)	6-1/2"x17"x14-1/4" (46 lbs)		
SEM EDP	567	1/4"	20	100 fpm	16-1/2"	120/1/60 (1.5 HP)	36"x23"x40" (200 lbs)		
SEM US 222	23	1/32"x1/2"	3	27 fpm	8-3/4"	120/1/60 (0.4 HP)	28-1/2"x15-3/4"x14-3/4" (80 lbs)	Y	
SEM EDP-LD	503	1/4"	25	71 fpm	16-1/2"	120/1/60 (1.25 HP)	36"x23"x40" (190 lbs)		
SEM MS	184	1/32"	6	108 fpm	9-1/8"	120/1/60 (1 HP)	34-1/2"x22"x18" (183 lbs)		

* Estimated Throughput = (feed/11 in) x (Sheets Per Feed) x (12 in/ft) x (Shredding Speed) x (60 min/hr) x (20 lbs/4620 sheets)

Model Name	Estimated* Throughput (lbs/hr)	Shred Width	Sheets Per Feed (20#)	Shredding Speed	Feed Opening	Electrical (V/ /Hz) (motor size)	Dimensions (HxWxD) (weight)	NSA Approved	Special Characteristics
SEM MS-C	184	1/32"	6	108 fpm	9-1/8"	120/1/60 (1 HP)	34-1/2"x22"x18" (173 lbs)		
SEM US 150	100	5/32"	11	32 fpm	8-3/4"	110/1/60 (0.33 HP)	25"x13-3/4"x10" (42 lbs)		
SEM US 3033 LP	921	5/32"x2"	65	50 fpm	18"	208/3/60 (3 HP)	62"x29"x23" (616 lbs)		
SEM US 222 T	23	1/32"x1/2"	3	27 fpm	8 3/4"	120/1/60 (0.4 HP)	8"x15-3/4"x14-3/4" (48 lbs)	Y	Table top version
SEM US 222 LP	31	3/32"x1/4"	4	27 fpm	8-3/4"	120/1/60 (0.4 HP)	8"x15-3/4"x14-3/4" (48 lbs)		
SEM US 232	31	1/32"	4	27 fpm	8-3/4"	120/1/60 (0.4 HP)	8"x15-3/4"x14-3/4" (48 lbs)		
SEM US 250	136	1/4"	18	27 fpm	8-3/4"	120/1/60 (0.4 HP)	8"x15-3/4"x14-3/4" (48 lbs)		
SEM US 266	125	1/50"x8/32"	11	40 fpm	12-1/2"	120/1/60 (1.5 HP)	34-1/2"x27-1/2"x19-1/4" (300 lbs)	Y	
SEM US 333	102	1/32"x1/2"	6	60 fpm	8-3/4"	120/1/60 (1 HP)	32-3/4"x21-1/4"x17-1/2" (112 lbs)	Y	

* Estimated Throughput = (feed/11 in) x (Sheets Per Feed) x (12 in/ft) x (Shredding Speed) x (60 min/hr) x (20 lbs/4620 sheets)

Model Name	Estimated* Throughput (lbs/hr)	Shred Width	Sheets Per Feed (20#)	Shredding Speed	Feed Opening	Electrical (V/ Hz) (motor size)	Dimensions (HxWxD) (weight)	NSA Approved	Special Characteristics
SEM 1600 CC	107	3/32"x5/8"	9	42 fpm	16"	110/1/60 (1 HP)	35-3/4"x22-1/4"x17" (157 lbs)		
SEM 2715	45	1/32"x1/2"	4	40 fpm	9-7/8"	110/1/60 (two motors at 0.33 HP)	32-1/4"x22-3/8"x18-7/8" (123 lbs)	Y	
SEM 1600	298	1/4"	14	75 fpm	16"	(110/1/60 (0.62 HP)	35-3/4"x22-1/4"x17" (157 lbs)		
SEM 16 CCV	4,488	1/2"	120	132 fpm	16-1/4"	230/3/60 (5.5 HP)	45"x45-1/2"x55-1/4" (585 lbs)		
SEM 18 DD	97	5/32"	8	43 fpm	8-5/8"	120/1/60 (0.25 HP)	28"x14-3/4"x14" (70 lbs)		
SEM 28 HD	537	1/4"	24	79 fpm	10"	120/1/60 (0.75 HP)	8-1/4"x18-1/2"x17" (88 lbs)		
SEM 38 HD	537	1/4"	24	79 fpm	12"	120/1/60 (0.75 HP)	8-1/4"x18-1/2"x17" (99 lbs)		
SEM DW CC	107	3/32"x5/8"	9	42 fpm	8-3/4"	120/1/60 (0.5 HP)	6-1/2"x17"x14-1/4" (45 lbs)		

* Estimated Throughput = (feed/11 in) x (Sheets Per Feed) x (12 in/ft) x (Shredding Speed) x (60 min/hr) x (20 lbs/4620 sheets)

Model Name	Estimated* Throughput (lbs/hr)	Shred Width	Sheets Per Feed (20#)	Shredding Speed	Feed Opening	Electrical (V/ /Hz) (motor size)	Dimensions (HxWxD) (weight)	NSA Approved	Special Characteristics
SEM US 111	23	1/32"x1/16"	4-5	16 fpm	8-5/8"	110/1/60 (0.25 HP)	20"x14"x10" (43 lbs)	Y	
SEM US 313T	234	5/32"	15	55 fpm	17-3/4"	110/1/60 (two motors at 0.33 HP)	7-1/4"x21-3/4"x15-1/2" (86 lbs)		
SEM US 2044 LP	125	3/32"x1/2"	8	55 fpm	16-1/2"	110/1/60 (1 HP)	35-1/2"x28"x16-1/2" (180 lbs)		
SEM US 2050	261	5/32"	18	55 fpm	16"	110/1/60 (0.75 HP)	35-1/2"x26"x16-1/2" (145 lbs)		
SEM 1500	68	3/16"	6	30 fpm	15"	110/1/60 (0.12 HP)	6-1/2"x19-3/4"x14" (36 lbs)		
SEM US 4044	272	1/32"x1/2"	12	60 fpm	16"	208/3/60 (5.5 HP)	44"x52"x62" (750 lbs)		
SEM US 4055 LP	1,020	5/32"x2"	45	80 fpm	19-3/4"	208/3/60 (5.5 HP)	44"x52"x62" (750 lbs)		
SEM US 5050	2,380	1/2"	105	80 fpm	19-3/4"	208/3/60 (5.5 HP)	44"x56"x62" (770 lbs)		
SEM	2,720	1/2"	120	80 fpm	19-3/4"	208/3/60	44"x56"x62"		

* Estimated Throughput - (feed/11 in) x (Sheets Per Feed) x (12 in/ft) x (Shredding Speed) x (60 min/hr) x (20 lbs/4620 sheets)

Model Name	Estimated* Throughput (lbs/hr)	Shred Width	Sheets Per Feed (20#)	Shredding Speed	Feed Opening	Electrical (V/Hz) (motor size)	Dimensions (HxWxD) (weight)	NSA Approved	Special Characteristics
US 5510						(5.5 HP)	(2050 lbs)		
SEM US 6610	2,720	2"	120	80 fpm	24"	208/3/60 (4 HP)	37-1/2"x92-1/2"x57-1/2" (2000 lbs)		available with 5.5 HP motor
SEM 13	561	1/4"	22	90 fpm	13"	110/1/60 (1 HP)	27-3/4"x17-1/4"x22" (126 lbs)		
SEM 16	717	1/4"	22	115 fpm	16"	110/1/60 (1 HP)	38"x25"x40-1/4" (151 lbs)		
SEM 1200	510	1/4"	24	75 fpm	12"	110/1/60 (1 HP)	35-3/4"x18-3/4"x17" (157 lbs)		
SEM 1200 CC	107	3/32"x5/8"	9	42 fpm	12"	110/1/60 (1 HP)	35-3/4"x18-3/4"x17" (157 lbs)		
Shredex Piranha 1002	23	1/32"x7/16"	4-5	16 fpm	8-5/8"	110/1/60 (0.25 HP)	20"x14"x10" (43 lbs)	Y	
Shredex Piranha 2102	77	1/32"x7/16"	6	45 fpm	8-5/8"	115/1/60 (1 HP)	9-1/2"x18-1/2"x16" (81 lbs)	Y	
Shredex Piranha 2202	77	1/32"x7/16"	6	45 fpm	8-5/8"	115/1/60 (1 HP)	29-3/4"x18-1/2"x16" (112 lbs)	Y	

* Estimated Throughput = (feed/11 in) x (Sheets Per Feed) x (12 in/ft) x (Shredding Speed) x (60 min/hr) x (20 lbs/4620 sheets)

Model Name	Estimated* Throughput (lbs/hr)	Shred Width	Sheets Per Feed (20#)	Shredding Speed	Feed Opening	Electrical (V/ /Hz) (motor size)	Dimensions (HxWxD) (weight)	NSA Approved	Special Characteristics
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* Estimated Throughput = (feed/11 in) x (Sheets Per Feed) x (12 in/ft) x (Shredding Speed) x (60 min/hr) x (20 lbs/4620 sheets)

Model Name	Estimated* Throughput (lbs/hr)	Shred Width	Sheets Per Feed (20#)	Shredding Speed	Feed Opening	Electrical (V/Hz) (motor size)	Dimensions (HxWxD) (weight)	NSA Approved	Special Characteristics
Shredex Watergate 2001	10	1/16"x3/4"	2	17 fpm	3-1/8"	115/160 (0.25 HP)	6-1/4"x8-3/4"x8-1/2" (14 lbs)		
Shredex Watergate 2001 FS	10	1/16"x3/4"	2	17 fpm	3-1/8"	115/160 (0.25 HP)	20"x8-3/4"x8-5/8" (21 lbs)		
Shredex Watergate 2100	179	1/8"x1-1/2"	9	70 fpm	8-5/8"	115/160 (1 HP)	9-1/2"x18-1/2"x16" (81 lbs)		
Shredex Watergate 2200	99	1/12"x1"	5	70 fpm	16"	115/160 (1 HP)	38-1/2"x25-3/4"x28-1/2" (146 lbs)		
Shredex Officemate 350	187	1/4"	6	110 fpm	9"	115/160 (0.25 HP)	8"x14"x11" (42 lbs)		
Shredex Officemate 550	187	1/4"	6	110 fpm	9"	115/160 (0.25 HP)	29"x14"x11" (53 lbs)		
Shredex Baron 600	308	1/4"	8	136 fpm	9"	115/160 (0.5 HP)	33"x14-1/2"x22" (68 lbs)		
Shredex Baron 3000	571	1/4"	16	126 fpm	12"	115/160 (1 HP)	34"x20"x27" (140 lbs)		
Shredex Baron	603	1/4"	16	133 fpm	16"	115/160 (1 HP)	42"x23-1/2"x35" (185 lbs)		

* Estimated Throughput = (feed/11 in) x (Sheets Per Feed) x (12 in/ft) x (Shredding Speed) x (60 min/hr) x (20 lbs/4620 sheets)

Model Name	Estimated* Throughput (lbs/hr)	Shred Width	Sheets Per Feed (20#)	Shredding Speed	Feed Opening	Electrical (V/Hz) (motor size)	Dimensions (HxWxD) (weight)	NSA Approved	Special Characteristics
6000									
Shredex Brute 4000	1,921	1/4"	60	113 fpm	18"	220/3/60 (4 HP)	40"x40"x53" (550 lbs)		
Shredex Brute 5000	2,862	1/2"	90	113 fpm	18"	220/3/60 (4 HP)	40"x40"x53" (550 lbs)		
Shredex Piranha 2002	8	1/32"x7/16"	2	14 fpm	3-1/8"	115/1/60 (0.25 HP)	6-1/4"x8-3/4"x9-1/2" (14 lbs)	Y	
Shredex Piranha 2002 FS	8	1/32"x7/16"	2	14 fpm	3-1/8"	115/1/60 (0.25 HP)	20"x8-3/4"x8-5/8" (21 lbs)	Y	
Standard 200	31 to 136	3/64" to 1/4"	4 to 18	27 fpm	8-3/4"	110/1/60 (0.4 HP)	15-3/4"x29-1/2"x14-3/4" (80 lbs)		
Standard 200 Cross Cut	23	1/32"x1/2"	3	27 fpm	8-3/4"	110/1/60 (0.4 HP)	15-3/4"x29-1/2"x14-3/4" (80 lbs)	Y	
Standard 210	61 or 84	5/64" or 5/32"	8 or 11	27 fpm	8-3/4"	110/1/60 (0.33 HP)	18"x28-3/4"x8" (48 lbs)		
Standard 300	136 to 374	5/64" to 1/4"	8 to 22	60 fpm	8-3/4"	110/1/60 (1 HP)	21-1/4"x32-3/34"x17-1/2" (112 lbs)		

* Estimated Throughput = (feed/11 in) x (Sheets Per Feed) x (12 in/ft) x (Shredding Speed) x (60 min/hr) x (20 lbs/4620 sheets)

Model Name	Estimated* Throughput (lbs/hr)	Shred Width	Sheets Per Feed (20#)	Shredding Speed	Feed Opening	Electrical (V/ /Hz) (motor size)	Dimensions (HxWxD) (weight)	NSA Approved	Special Characteristics
Standard 300 Cross Cut	85 or 102	1/32"x1/2" or 3/32"x3/4"	5 or 6	60 fpm	8-3/4"	110/1/60 (1 HP)	21-1/4"x32-3/4"x17-1/2" (112 lbs)	Y	
Standard 310	249	5/32"	16	55 fpm	17-3/4"	110/1/60 (two motors at 0.33 HP)	21-3/4"x7-1/4"x15-1/2" (86 lbs)		
Standard 351	748	5/32"	33	80 fpm	17-3/4"	220/1/60 (2 HP)	25-1/4"x49-3/4"x22-1/2" (317 lbs)		
Standard 353	997	5/32"	16	220 fpm	17-1/4"	208/3/60 (4 HP)	25-1/4"x49-3/4"x22-1/2" (317 lbs)		
Standard 400	793 to 1,813	5/32" to 1/2"	35 to 80	80 fpm	16"	208/3/60 (4 HP)	52"x44"x62" (900 lbs)		
Standard 400 Cross Cut	227 or 453	1/32"x1/2" or 3/32"x1/2"	10 or 20	80 fpm	16"	208/3/60 (5.5 HP)	52"x44"x62" (900 lbs)		
Standard 500	1,020 to 2,380	5/32" to 1/2"	45 to 105	80 fpm	19-3/4"	208/1/60 (5.5 HP)	56"x44"x62" (930 lbs)		
Standard 510 Combi	1,133 to 2,720	5/32" to 1/2"	50 to 120	80 fpm	19-3/4"	208/3/60 (S => 5.5 HP, B => 5.5 HP)	37-1/2"x57-1/2"x124" (2050 lbs)		with baler
Standard	680	5/32"x2"	30	80 fpm	19-3/4"	208/3/60	37-1/2"x57-1/2"x124"		with baler

* Estimated Throughput = (feed/11 in) x (Sheets Per Feed) x (12 in/ft) x (Shredding Speed) x (60 min/hr) x (20 lbs/4620 sheets)

Model Name	Estimated* Throughput (lbs/hr)	Shred Width	Sheets Per Feed (20#)	Shredding Speed	Feed Opening	Electrical (V/ /Hz) (motor size)	Dimensions (HxWxD) (weight)	NSA Approved	Special Characteristics
511 Combi						{S => 4 HP. B => 5.5 HP}	{2050 lbs}		
Standard 610 Combi	2,720	2"	120	80 fpm	24"	208/360 {S => 4 HP. B => 5.5 HP}	37-1/2"x57-1/2"x124" {2000 lbs}		with baler
Standard 100	63 or 100	5/64" or 5/32"	7 or 11	32 fpm	8-3/4"	110/160 {0.33 HP}	13-3/4"x4-1/2"x10" {28 lbs}		
Standard 2030E	234	5/32"	15	55 fpm	17-1/2"	110/160 {0.75 HP}	26"x35-1/2"x16-1/2" {145 lbs}		
Standard 2040EC	140	3/32"x5/8"	9	55 fpm	17-1/2"	110/160 {0.9 HP}	26"x35-1/2"x16-1/2" {180 lbs}		
Standard 2000C	198	5/16"	35	20 fpm	8-3/4"	110/160 {1 HP}	35-1/2"x36"x19-1/2" {308 lbs}		
Standard 2080EC	125	1/50"x8/32"	11	40 fpm	12-1/2"	110/160 {1.5 HP}	27-1/2"x35-1/2"x19-1/4" {300 lbs}		Y
Wilson Jones A 300	22	1/16"	4	19.5 fpm	8-5/8"	115/160 {0.1 HP}	19"x11-1/2"x12-1/2" {19 lbs}		
Wilson Jones A 600S	173	1/4"	14	43.5 fpm	8-3/4"	115/160 {0.25 HP}	27-1/2"x16"x15-1/2" {61.6 lbs}		

* Estimated Throughput - (feed/11 in) x (Sheets Per Feed) x (12 in/ft) x (Shredding Speed) x (60 min/hr) x (20 lbs/4620 sheets)

Model Name	Estimated* Throughput (lbs/hr)	Shred Width	Sheets Per Feed (20#)	Shredding Speed	Feed Opening	Electrical (V/ /Hz) (motor size)	Dimensions (HxWxD) (weight)	NSA Approved	Special Characteristics
Wilson Jones A 601	102	5/32"	8	45 fpm	8-3/4"	115/160 (0.25 HP)	6-1/4"x13-1/2"x14-1/4" (48 lbs)		
Wilson Jones A 700	126	1/4"	10	45 fpm	8-3/4"	115/160 (0.25 HP)	22"x14-1/2"x13-5/8" (50 lbs)		
Wilson Jones A 750PS	64	1/4"	5	45 fpm	15"	115/160 (0.33 HP)	4-3/4"x8-3/4"x18-1/2" (27 lbs)		
Wilson Jones A 800	323	1/4"	20	57 fpm	8-3/4"	115/160 (0.5 HP)	33-7/8"x16"x15-1/4" (82 lbs)		
Wilson Jones A 900	180 to 390	1/32" to 3/16"	6 to 13	106 fpm	9"	115/160 (1 HP)	36-1/2"x28-1/2"x20-1/4" (175 lbs)		
Wilson Jones A 900DT	390	3/16"	13	106 fpm	9"	115/160 (1 HP)	11"x21"x20-1/2" (134 lbs)		
Wilson Jones A 900CD	390	3/16"	13	106 fpm	9"	115/160 (1 HP)	36"x21"x20" (212 lbs)		
Wilson Jones A 1300	156 or 436	1/32" or 1/4"	5 or 14	110 fpm	13"	115/160 (1 HP)	36"x27"x23-1/2" (203 lbs)		

* Estimated Throughput = (feed/11 in) x (Sheets Per Feed) x (12 in/ft) x (Shredding Speed) x (60 min/hr) x (20 lbs/4620 sheets)

Model Name	Estimated* Throughput (lbs/hr)	Shred Width	Sheets Per Feed (20')	Shredding Speed	Feed Opening	Electrical (V/ /Hz) (motor size)	Dimensions (HxWxD) (weight)	MSA Approved	Special Characteristics
Wilson Jones A 1600	597	1/4"	18	115 fpm	16"	115/160 (1 HP)	44-3/4"x41-3/4"x27" (256 lbs)		
Wilson Jones A 1600HS	567	1/4"	10	200 fpm	16"	115/160 (1 HP)	44-3/4"x41-3/4"x27" (261 lbs)		
Wilson Jones AX 900	102	1/32"x7/16"	4	90 fpm	9"	115/160 (1 HP)	36"x20"x21" (216 lbs)	Y	
Wilson Jones A 1300MIX	283	1/8"x1"	10	100 fpm	13"	115/160 (1 HP)	35-1/2"x21"x23-1/2" (209 lbs)		
Wilson Jones 1300LX	170	1/16"x1"	6	100 fpm	13"	115/160 (1 HP)	35-1/2"x21"x23-1/2" (209 lbs)		
Wilson Jones A 1600MIX	385	1/8"x1"	16	85 fpm	16"	115/160 (1.5 HP)	33"x19"x23-1/2" (235 lbs)		
Wilson Jones A 2400VX	843	5/32"x2"	35	85 fpm	19"	220/360 (4 HP)	62"x38"x24-1/2" (400 lbs)		

* Estimated Throughput = (feed/11 in) x (Sheets Per Feed) x (12 in/ft) x (Shredding Speed) x (60 min/hr) x (20 lbs/4620 sheets)

Section B

Rotary Knife Mills

This section includes rotary knife mills available from the following companies. The company names have been abbreviated within the table and the abbreviation is indicated to the left. The devices have been ordered according to throughput. Devices approved by the NSA are identified per Annex B to NTISSI No. 4004, dated March 1987, which is available from DIRNSA, Attn Y251.

<u>Abbreviation</u>	<u>Company</u>
SEM	Security Engineered Machinery Co., Inc., 5 Walkup Drive Westboro, MA 01581
Fail Safe	Fail-Safe Destruction Systems 18032-C Lemon Drive Yorba Linda, CA 92686

Model Name	Throughput (lbs/hr)	Screen Size	Sheets Per Feed (20#)	Materials Accepted (See Notes)	Feed Opening	Electrical (V/Hz) (motor size)	Dimensions (HxWxD) (weight)	NSA Approved	Special Characteristics
SEM 1454	1,800 to 3,200	3/32" to 1/2"	800 to 1,800	(4)	14"x54"	460/3/60 (P -> 50 HP, F -> 1.5 HP)	76"x92"x78" (9000 lbs)	Y	with fan cyclone system (other HP available); 75, 100, & 150 HP available with knife mill; 50 Hz and other voltages available
SEM 1436	1,200 to 2,200	3/32" to 1/2"	800 to 1,800	(4)	14"x36"	460/3/60 (P -> 50 HP, F -> 1.5 HP)	76"x74"x78" (7000 lbs)	Y	with fan cyclone system (other HP available); 75, 100, & 150 HP available with knife mill; 50 Hz and other voltages available
SEM 1424	800 to 1,500	3/32" to 1/2"	800 to 1,800	(4)	14"x24"	460/3/60 (P -> 40 HP, F -> 1.5 HP)	74"x80"x68-1/2" (4500 lbs)	Y	with fan cyclone system (other HP available); 50, 75, 100, & 150 HP available with knife mill; 50 Hz and other voltages available
SEM 22	300 to 600	3/32" to 1/2"	200 to 400	(4)	12"x20"	460/3/60 & 115/1/60 (P -> 20 HP, V -> 3 & 3 HP)	69"x38"x45-1/2" (2200 lbs)	Y	with two vacuum systems; 50 Hz and other voltages available
SEM 15	300 to 600	3/32" to 3/4"	150 to 300	(4)	3"x15"	460/3/60 & 115/1/60 (P -> 15 HP, F -> 0.75 HP)	53"x31"x47" (2300 lbs)	Y	with fan system (vacuum system available); 50 Hz and other voltages available
Fall Safe FS-12	200 to 300	3/32"				230/3/60 & 110/1/60	63"x28"x38" (1000 lbs)	Y	with vacuum system; 460 V available
SEM 1012	150 to 300	3/32" to 1/2"	100 to 200	(4)	10"x12"	460/3/60 & 115/1/60 (P -> 10 HP, V -> 1.5 HP)	62"x28-1/2"x42" (1000 lbs)	Y	with vacuum system; 50 Hz and other voltages available
SEM 2	50 to 125	3/32" to 1/2"	15 to 50	(3)	10"	460/3/60 & 115/1/60 (P -> 5 HP, V -> 1 HP)	56"x23"x31" (550 lbs)	Y	with vacuum system; 50 Hz and other voltages available

Model Name	Throughput (lbs/hr)	Screen Size	Sheets Per Feed (20#)	Materials Accepted (See Notes)	Feed Opening	Electrical (V/Hz) (motor size)	Dimensions (HxWxD) (weight)	MSA Approved	Special Characteristics
SBM 716		3/32" or 3/8"	8	(2)	16"	115/1/60 (0.75 HP)	37"x26-1/4"x24" (450 lbs)	Y	with air flow fan; 50 Hz and/or 230 V available
SBM 700		3/32" or 3/8"	8	(1)	10"	115/1/60 (P -> 0.5 HP, V -> 0.5 HP)	43-1/2"x21"x22" (325 lbs)	Y	with vacuum system; 50 Hz and/or 230 V available

NOTES:

- (1) folded printouts, EDP cards, comm tape, carbon paper, typewriter ribbon, Mylar, unclassified microfilm (no reels), unclassified microfiche, floppy disks, mag cards
- (2) all of #1 plus: non-folded printouts
- (3) all of #2 plus: crumpled paper, offset plates, microfilm reels
- (4) all of #3 plus: circuit boards

Section C

Hammermills

This section includes hammermills available from the following companies. The company names have been abbreviated within the table and the abbreviation is indicated to the left. The devices have been ordered according to throughput. Devices approved by the NSA are identified per Annex B to NTISSI No. 4004, dated March 1987, which is available from DIRNSA, Attn Y251.

<u>Abbreviation</u>	<u>Company</u>
Buffalo	Buffalo Hammer Mill Corp 22 Chicago Street Buffalo, NY 14204
C.S. Bell	C. S. Bell Co. P.O. Box 291 Tiffin, OH 44883
DDS	Document Disintegration Systems LIF Industries 2110 Belgrave Ave Huntington Park, CA 90255
Jay Bee	Jay Bee Manufacturing, Inc. P. O. Box 986 Tyler, TX 75701
Schutte	Schutte Pulverizer Company, Inc. 61 Depot Street Buffalo, NY 14240

SEM

**Security Engineered Machinery Co., Inc.,
5 Walkup Drive
Westboro, MA 01581**

Shredex

**Shredex, Inc.
55 Central Drive, Dept. TR
Farmingdale, NY 11735**

Standard

**Standard Duplicating Machines, Corp.
10 Connector Road
Andover, MA 01810**

Model Name	Throughput (lbs/hr)	Screen Size	Feed Opening	Electrical (V/Hz) (motor size)	Dimensions (HxWxD) (weight)	NSA Approved	Special Characteristics
DDS 36	2,500 to 4,750	3/16" to 1/2"	10"x36"	220/3/60 (200 HP)	23'x25'x30' (16,545 lbs)	Y	200 HP diesel engine and other voltages available
DDS 24	1,500 to 3,500	3/16" to 1/2"	8"x24"	220/3/60 (150 HP)	21'x17'x23' (12,525 lbs)	Y	175 HP diesel and 140 HP gas engines available; other voltages available
DDS 18	1,000 to 2,000	3/16" to 1/2"	6"x18"	220/3/60 (75 HP)	15'x13'x20' (8150 lbs)	Y	125 HP diesel engine and other voltages available
Buffalo W-60-H	900 to 2,250	3/8" to 5/8"	60"	220/3/60 (60 to 150 HP)			480 V available
Buffalo W-50-H	900 to 2,250	3/8" to 5/8"	50"	220/3/60 (60 to 150 HP)			480 V available
Buffalo W-40-H	900 to 2,250	3/8" to 5/8"	40"	220/3/60 (60 to 150 HP)			480 V available
Buffalo W-60-L	750 to 2,250	3/8" to 5/8"	60"	220/3/60 (50 to 150 HP)			480 V available
Buffalo W-50-L	750 to 2,250	3/8" to 5/8"	50"	220/3/60 (50 to 150 HP)			480 V available
Buffalo W-40-L	750 to 2,250	3/8" to 5/8"	40"	220/3/60 (50 to 150 HP)			480 V available
Buffalo	750	3/8"	36"	220/3/60			480 V available

Model Name	Throughput (lbs/hr)	Screen Size	Feed Opening	Electrical (V/ /Hz) (motor size)	Dimensions (HxWxD) (weight)	NSA Approved	Special Characteristics
W-36-H	to 2,250	to 5/8"		(50 to 150 HP)			460 V available
Buffalo W-30-H	750 to 2,250	3/8" to 5/8"	30"	220/3/60 (50 to 150 HP)			460 V available
Buffalo W-36-L	750 to 1,500	3/8" to 5/8"	36"	220/3/60 (50 to 100 HP)			460 V available
Buffalo W-30-L	750 to 1,500	3/8" to 5/8"	30"	220/3/60 (50 to 100 HP)			460 V available
Buffalo B-25	450 to 1,500	3/8" to 5/8"	25"	220/3/60 (30 to 100 HP)			460 V available
Buffalo B-20	450 to 1,125	3/8" to 5/8"	20"	220/3/60 (30 to 75 HP)			460 V available
C. S. Bell Blower 30	400	1/4"	6"x12"	220/3/60 (15 HP)	72"x39"x56" (340 lbs)		18 HP engine, 440 V, 50 Hz, and other screen sizes available
Buffalo W-25-H	375 to 1,125	3/8" to 5/8"	25"	220/3/60 (25 to 75 HP)			460 V available
Buffalo W-20-H	375 to 1,125	3/8" to 5/8"	20"	220/3/60 (25 to 75 HP)			460 V available
Buffalo B-16	375 to	3/8" to	16"	220/3/60 (25 to 60 HP)			460 V available

Model Name	Throughput (lbs/hr)	Screen Size	Feed Opening	Electrical (V/ /Hz) (motor size)	Dimensions (HxWxD) (weight)	NSA Approved	Special Characteristics
Buffalo B-12	900	5/8"	12"	220/3/60 (20 to 50 HP)			460 V available
Buffalo W-25-L	300 to 750	3/8" to 5/8"	25"	220/3/60 (20 to 50 HP)			460 V available
Buffalo W-20-L	300 to 750	3/8" to 5/8"	20"	220/3/60 (20 to 50 HP)			460 V available
C. S. Bell Blower 20	250	1/4"	6"x9"	220/3/60 (5 HP)	65"x46"x36" (240 lbs)		9 HP engine, 440 V, 50 Hz, and other screen sizes available
Buffalo W-16-H	225 to 750	3/8" to 5/8"	16"	220/3/60 (15 to 50 HP)			460 V available
Buffalo W-12-H	225 to 750	3/8" to 5/8"	12"	220/3/60 (15 to 50 HP)			460 V available
Buffalo W-16-L	150 to 375	3/8" to 5/8"	16"	220/3/60 (10 to 25 HP)			460 V available
Buffalo W-12-L	150 to 300	3/8" to 5/8"	12"	220/3/60 (10 to 20 HP)			460 V available
C. S. Bell Blower 10	115	1/4"	6"x6"	220/3/60 (3 HP)	65"x41"x36" (215 lbs)		5 HP engine, 440 V, 50 Hz, and other screen sizes available

Model Name	Throughput (lbs/hr)	Screen Size	Feed Opening	Electrical (V/Hz) (motor size)	Dimensions (HxWxD) (weight)	NSA Approved	Special Characteristics
Buffalo B-6	110 to 375	3/8" to 5/8"	8"	220/3/60 (7.5 to 25 HP)			460 V available
Buffalo W-8-H	75 to 300	3/8" to 5/8"	8"	220/3/60 (5 to 20 HP)			460 V available
Buffalo W-8-L	45	3/8" to 5/8"	8"	220/3/60 (3 HP)			460 V available
Buffalo W-6-L	30	3/8" to 5/8"	6"	220/3/60 (2 HP)			460 V available
Buffalo B-4	15 to 45	3/8" to 5/8"	4"	220/3/60 (1 to 3 HP)			460 V available
Buffalo W-4-L	15	3/8" to 5/8"	4"	220/3/60 (1 HP)			460 V available
Jay Bee AB		Discontinued device				Y	
Jay Bee DDS-12		Discontinued device				Y	
Jay Bee W-3	3/16" to 1"	12" x 15-1/4"	230/3/60 (50 to 100 HP)	51" x 60" x 108" (3800 lbs)			belt driven model, 460 V, and 50 Hz available

Model Name	Throughput (lbs/hr)	Screen Size	Feed Opening	Electrical (V/ /Hz) (motor size)	Dimensions (HxWxD) (weight)	NSA Approved	Special Characteristics
Jay Bee W-4		3/16" to 1"	12"x20"	230/3/60 (60 to 150 HP)	51"x60"x113" (11,000 lbs)		belt driven model, 460 V, and 50 Hz available
Jay Bee W-5		3/16" to 1"	12"x26"	230/3/60 (75 to 200 HP)	51"x60"x115" (13,000 lbs)		460 V and 50 Hz available
Jay Bee SW-2		3/16" to 1"	10-3/4"x12"	230/3/60 (30 to 60 HP)	61"x57"x91" (2500 lbs)		belt driven model, 460 V, and 50 Hz available
Jay Bee SW-3		3/16" to 1"	12"x15-1/4"	230/3/60 (50 to 75 HP)	61"x57"x98" (3900 lbs)		belt driven model, 460 V, and 50 Hz available
Jay Bee SW-4		3/16" to 1"	12"x20"	230/3/60 (60 to 100 HP)	61"x57"x109" (11,000 lbs)		belt driven model, 460 V, and 50 Hz available
Jay Bee UX 2		3/16" to 1"	10-3/4"x12"	230/3/60 (25 to 50 HP)	58"x58"x85" (2500 lbs)		460 V and 50 Hz available
Jay Bee UX-3		3/16" to 1"	12"x15-1/4"	230/3/60 (30 to 60 HP)	58"x58"x92" (3500 lbs)		460 V and 50 Hz available
Jay Bee 2MB-W	30	3/16" to 1"	7-1/2"	230/3/60 (5 HP)	53"x38"x17" (500 lbs)	Y	460 V and 50 Hz available
Jay Bee 3MB	50	3/16" to 1"	10"	230/3/60 (7.5 HP)	53"x38"x17" (500 lbs)	Y	460 V and 50 Hz available

Model Name	Throughput (lbs/hr)	Screen Size	Feed Opening	Electrical (V/ /Hz) (motor size)	Dimensions (HxWxD) (weight)	NSA Approved	Special Characteristics
Jay Bee ISW-2		3/16" to 1"	10"x10-1/4"	230/3/60 (30 to 50 HP)	(2500 lbs)		460 V and 50 Hz available
Jay Bee ISW-3		3/16" to 1"	10"x14-3/4"	230/3/60 (50 to 75 HP)	(3800 lbs)		460 V and 50 Hz available
Jay Bee ISW-4		3/16" to 1"	10"x19-1/2"	230/3/60 (75 to 100 HP)	(11,000 lbs)		460 V and 50 Hz available
Jay Bee 3CB	200	3/16" to 1"	10"	230/3/60 (15 HP)	94"x71-1/2"x59" (950 lbs)	Y	460 V and 50 Hz available
Jay Bee 3ISW4F	400 to 600	3/16"	15"	230/3/60 (40 HP)	12'10"x8'10"x16" (6,000 lbs)	Y	460 V and 50 Hz available
Jay Bee 3ISW6	1500	3/16"	15"	230/3/60 (60 HP)	15'8"x12'x27'6" (11,000 lbs)	Y	460 V and 50 Hz available
Jay Bee 3ISW75	2000	3/16"	15"	230/3/60 (75 HP)	15'8"x12'x27'6" (11,000 lbs)	Y	460 V and 50 Hz available
Jay Bee 4ISW75	2000	3/16"	15"	230/3/60 (75 HP)	15'8"x12'x27'6" (11,000 lbs)	Y	460 V and 50 Hz available
C. S. Bell 10		1/2"	6"x6"	220/3/60 (2 HP)	31"x16"x47" (145 lbs)		5 HP engine, 440 V, 50 Hz, and other screen sizes available; USE FOR DISKS AND CASSETTES ONLY
C. S. Bell		1/2"	6"x9"	220/3/60	31"x18"x47"		7 HP engine, 440 V, 50 Hz, and other

Model Name	Throughput (lbs/hr)	Screen Size	Feed Opening	Electrical (V/Hz) (motor size)	Dimensions (HxWxD) (weight)	NSA Approved	Special Characteristics
20				(3 HP)	(165 lbs)		screen sizes available; USE FOR DISKS AND CASSETTES ONLY
C. S. Bell 30		1/2"	6"x12"	220/3/60 (7.5 HP)	38"x23"x52" (195 lbs)		10 HP engine, 440 V, 60 Hz, and other screen sizes available; USE FOR DISKS AND CASSETTES ONLY
Schulte 1440	400	3/16"	17-3/4"x25"	230/3/60 (40 HP)	126"x72-1/2"x278"	Y	460 V and 60 Hz available ANNEX B to NTSSB No 4004 (March 1987) fits as model 1430

Section D

Pulpers

This section includes pulpers available from the following companies. The company name has been abbreviated within the table and the abbreviation is indicated to the left. Devices approved by the NSA are identified per Annex B to NTISSI No. 4004, dated March 1987, which is available from DIRNSA, Attn Y251.

<u>Abbreviation</u>	<u>Company</u>
Somat	Somat Corporation Chestnut Street Pomeroy, PA 19367
Waring	Waring Products Division Dynamics Corporation of America New Hartford, CT 06057

Model Name	Throughput* (lbs/hr)	Pulper Tank Diameter (in)	Drain Requirements	Fresh Water Requirements	Electrical (V/ /Hz) (motor size)	Dimensions (HxWxD) (weight)	MSA Approved
Somaf SPC-50AS	250	23"	3" min. floor sink	12 GPM/30 PSI	/3/60 (5 & 1.5 HP)	67"x23"x80" (760 lbs)	
Somaf SPC-75S	325	30"	3" min. floor sink	18 GPM/30 PSI	/3/60 (7.5 & 1.5 HP)	67"x30"x89" (860 lbs)	
Somaf SPC-150S	375	36"	3" min. floor sink	24 GPM/30 PSI	/3/60 (15 & 1.5 HP)	67"x36"x103" (1470 lbs)	
Somaf SP-50AS	250	23"	3" min. floor sink	12 GPM/30 PSI	/3/60 (5 & 3 HP)	41"x23"x70-1/2" (395 lbs)	
Somaf SP-75S	325	30"	3" min. floor sink	18 GPM/30 PSI	/3/60 (7.5 & 3 HP)	43"x30"x68" (490 lbs)	
Somaf SP-150S	375	36"	3" min. floor sink	24 GPM/30 PSI	/3/60 (15 & 3 HP)	50"x36"x90-3/4" (1100 lbs)	
Somaf SP-250S	600	42"	4" min. floor sink	40 GPM/30 PSI	/3/60 (25 & 5 HP)	100"x42"x102" (1250 lbs)	
Somaf SP-400S	1000	48"	4" min. floor sink	60 GPM/30 PSI	/3/60 (40 & HP)	102"x48"x111" (2125 lbs)	
Somaf SPC-250S	600	42"	4" min. floor sink	40 GPM/30 PSI	/3/60 (25 & 3 HP)		
Waring							

* If DoD requirements must be met, all throughputs are cut in half

Model Name	Throughput* (lbs/hr)	Pulper Tank Diameter (in)	Drain Requirements	Fresh Water Requirements	Electrical (V/ /Hz) (motor size)	Dimensions (HxWxD) (weight)	NSA Approved
7-Speed Vortex Blender			none	2 cups	110/1/60		Y

The Waring Blender is approved for the following process:

Tear 2 sheets of paper into quarters, place in blender and add two cups water
 Run blender for 30 seconds at the lowest speed followed by 90 seconds at the highest speed

* If DoD requirements must be met, all throughputs are cut in half

Section E

Microfiche Shredders

This section includes microfiche shredders available from the following companies. The company names have been abbreviated within the table and the abbreviation is indicated to the left.

Abbreviation	Company
Datatech	Datatech Business Machines Division Datatech Enterprises Inc. West Conshohocken, PA
Fellowes	Fellowes Manufacturing Co. 1789 Norwood Avenue Itasca, IL 60143
GBC	General Binding Corporation One GBC Plaza Northbrook, IL 60062
MBM	Michael Business Machines Corporation 145 West 45th Street New York, NY 10036
Novatec	Novatec Corporation 1360 Lincoln Ave. Holbrook, NY 11741

IXI

**IXI, Inc.
P.O. Box 1713
Minnetonka, MN 55345-1713**

LDJ

**LDJ Incorporated
2200 Stephenson, Highway
P. O. Box 219
Troy, MI 48099**

Microtran

**Microtran Company, Inc.
145 East Mineola Ave.
Valley Stream, NY 11582**

Shokai

**Shokai Far East Ltd.
280 Central Park Avenue
Hartsdale, NY 10530**

WRE

**Wide Range Electronics Corporation
140 Sun Valley Circle
St. Louis, MO 63026**

Computer-Link	Computer-Link Corporation Lopez Road Wilmington, MA 01887
Data Devices	Data Devices International 20234 Bahama Street Chatsworth, CA 91311
Data Security	Data Security, Inc. 2801 North 27th Street Lincoln, Nebraska 68521
Datatape	Datatape, Inc. (A Kodak Company) 360 Sierra Madre Villa Pasadena, CA 91109
Garner	Garner Industries 4200 North 48th Street Lincoln, Nebraska 68504
Geneva	Geneva Group of Companies, Inc. 7255 Flying Cloud Drive Eden Prairie, MN 55344
GKI	General Kinetics, Inc. 12300 Parklawn Drive Rockville, MD 20852
HP	Hewlett Packard
Inmac	Inmac

Model Name	Throughput (fiche/hr)	Shred Width	Fiche Per Feed (4"x6")	Shredding Speed	Feed Opening	Electrical (V/Hz) (motor size)	Dimensions (HxWxD) (weight)	NSA Approved
Feloves PowerShred M1000	1,000	1/4"x5/16"	1		4-1/2"	110/1/60 (two motors at 0.2 HP)	8-1/4"x11-7/8"x14-3/4" (69 lbs)	
Novatec Micro 100	1,100	1/36"x5/16"	1 to 2	50 fpm	4-1/2"	110/1/60 (two motors at 0.25 HP)	32"x19"x16" (93 lbs)	
Novatec Micro 300	1,100	dust	1 to 2		4-1/2"	110/1/60 (0.5 HP)	31"x24"x17" (140 lbs)	
MBM Destroyit Microfine 1001	1,200	hair-fine	1	10 fpm	4-1/2"	110/1/60 (0.33 HP)	33-3/4"x14-1/2"x16-1/8" (73 lbs)	
Datsatech Inlimus Micro 004	1,100	dust			4"	110/1/60 (0.54 HP)	31"x24"x17" (161 lbs)	
Datsatech Inlimus Micro 006	1,100	1/32"x19/64"			4-1/2"	110/1/60 (two motors at 0.2 HP)	34"x20"x18" (101 lbs)	
SEM Micro 100	1,100	1/32"x5/16"			4-1/2"	110/1/60 (0.2 HP)	32"x19"x16" (93 lbs)	
SEM Micro 300	1,100	dust			4-1/2"	110/1/60 (0.7 HP)	31"x24"x17" (140 lbs)	

Model Name	Throughput (fiche/hr)	Shred Width	Fiche Per Feed (4"x8")	Shredding Speed	Feed Opening	Electrical (V/Hz) (motor size)	Dimensions (HxWxD) (weight)	NSA Approved
SEM Micro 003	550	dust			4-1/2"	110/1/60 (0.5 HP)	31"x24"x17" (155 lbs)	
SEM DW		3/32"		42 fpm	8-3/4"	110/1/60 (0.5 HP)	6-1/2"x17"x14-1/4" (45 lbs)	
SEM Micro 3006		dust					31"x24"x17" (140 lbs)	
SEM US 2000	6 cases/min	5/16"			8-3/4"	110/1/60 (0.75 HP)	36"x25-1/2"x19-1/2" (308 lbs)	
Shredex Piranha 2002		1/32"x7/16"	1	14 fpm	3-1/8"	115/1/60 (0.25 HP)	6-1/4"x6-3/4"x9-1/2" (14 lbs)	
Shredex Piranha 2002 FS		1/32"x7/16"	1	14 fpm	3-1/8"	115/1/60 (0.25 HP)	20"x6-3/4"x6-5/8" (21 lbs)	
Shredex Piranha 2102		1/32"x7/16"		45 fpm	8-5/8"	115/1/60 (1 HP)	9-1/2"x18-1/2"x16" (81 lbs)	
Shredex Piranha 2202		1/32"x7/16"		45 fpm	8-5/8"	115/1/60 (1 HP)	29-3/4"x18-1/2"x16" (112 lbs)	

Model Name	Throughput (fiche/hr)	Shred Width	Fiche Per Feed (4" x 6")	Shredding Speed	Feed Opening	Electrical (V/Hz) (motor size)	Dimensions (HxWxD) (weight)	NSA Approved
Shredax Watergate 2001		1/16"x3/4"	1	17 fpm	3-1/8"	115/1/60 (0.25 HP)	6-1/4"x8-3/4"x9-1/2" (14 lbs)	
Shredax Watergate 2001 FS		1/16"x3/4"	1	17 fpm	3-1/8"	115/1/60 (0.25 HP)	20"x8-3/4"x8-5/8" (21 lbs)	
Standard 2000C	6 case./min	5/16"	1	20 fpm	8-3/4"	110/1/60 (1 HP)	36"x25-1/2"x19-1/2" (308 lbs)	
GEC Shredmaster Mikron II		1/32"x1/8"	1	16 fpm	4-3/16"	110/1/60 (0.16 HP)	8-1/2"x9-1/2"x16" (37 lbs)	

Section F

Degaussers

This section includes degaussers available from the following companies. The company names have been abbreviated within the table and the abbreviation is indicated to the left.

<u>Abbreviation</u>	<u>Company</u>
AEC	AEC Magnetics 2974 Graves Lane Cincinnati, OH 45241
Ampex	Ampex Corporation Data Systems Division 401 Broadway Redwood City, CA 94063
Annis	R. B. Annis Company 1101 N. Delaware St. Indianapolis, IN 46202
Audiolab	Audiolab Electronics, Inc. 3725 Esperanza Drive Sacramento, CA 95864
CMC	CMC Technology (a division of Datatape Inc., a Kodak company) 2650 Lafayette Street Santa Clara, CA 95050

Model Name	Acceptable Media	Media Coercivity Level	Erase Level	Feed Opening	Cycle Time	Duty cycle	Electrical (V/ /Hz) (motor size)	Dimensions (HxWxD) (weight)	NSA Certified for Media Type	Special Characteristics
AEC DML-0306				3"x6"		cont. or intermit.		16"x18"x18" (150 lbs)	Not Evaluated/ Certified	
AEC DML-0612				6"x12"		cont. or intermit.		20"x25"x16" (300 lbs)	Not Evaluated/ Not Certified	
AEC DML-0916				9"x18"		cont. or intermit.		24"x32"x16" (450 lbs)	Not Evaluated/ Not Certified	
Ampex SE-10	tapes up to 1 1/2" in dia. and 1" in thickness		80 dB		1.33 min.	25 reels per hour	110-125 v single 50 or 60 Hz	11"x17.5"x18" (50 lbs)	Not Evaluated/ Not Certified	Also available in rack mount
Ampex SE-20	tapes up to 1 1/2" in dia. by 1" thick; 1 1/2" in dia. by 2" thick		95 dB for 1" 85 dB for 2"		0.5 min.	cont.	95-135/150-62	12-1/4"x17-1/4"x22-5/8" (136 lbs)	Not Evaluated/ Not Certified	Type I
Ampex 111	tapes up to 1 1/2" in dia. and 2" in thickness					10 min.	115/150 or 60	3-3/4"x12"x14" (33 lbs)	Not Evaluated/ Not Certified	Portable unit
Annis Trans-Field	any up to 1 1/2" in dia. and 2" in thickness					cont.	200/1/60		Not Evaluated/ Not Certified	
AudioLab TD-1B	tapes up to 10-1/2" in dia. and 3/4" in thickness				1 min.	3 min.	115/1/60	3"x5-1/4"x7-1/4" (9.5 lbs)	Not Evaluated/ Not Certified	
AudioLab TD-4A	tapes up to 16" in dia.	750 Oe				50% over 20 min. or cont.	115/1/60	4"x13"x17" (46 lbs)	Not Evaluated/ Not Certified	
AudioLab TD-5	tapes up to 16" in dia.	1100 Oe				50% over 20 min. or cont.	115/1/60	4"x13"x17" (46 lbs)	Not Evaluated/ Not Certified	

Model Name	Acceptable Media	Media Coercivity	Erase Level	Feed Opening	Cycle Time	Duty cycle	Electrical (V, (Hz) (motor size)	Dimensions (HxWxD) (weight)	NSA Certified for Media Type	Special Characteristics
CMC TD-600	reels to 14" dia.	740 Oe	70 dB		10/20 sec		115/1/60	5.7"x11.8"x19.6" (55 lbs)	Not Evaluated/ Not Certified	
CMC TD-800	reels to 16" dia. 1" wide	345 Oe 740 Oe	90 dB 80 dB		45 sec		115/1/60	9"x17"x19-9/16" (81 lbs)	Type I	
Computer-Link 515	Replaced by Computer-Link Model 530									
Computer-Link 520	Replaced by Computer-Link Model 540									
Computer-Link 530	ery up to 16" in dia. and 1" in thickness	360 Oe	90 dB		45 sec. @ 60 Hz; 55 sec. @ 50 Hz	cont.	120/1/60	9-1/2"x17"x24" (80 lbs)	Type I	
Computer-Link 540	ery up to 16" in dia. and 1" in thickness (also disk packs)	360 Oe	90 dB		50 sec.	cont.	120/1/60	9-1/2"x17"x24" (90 lbs)	Type I	
Computer-Link 550	up to 14" in dia. and 1" in thickness	750 Oe 1500	95 dB 80 dB		2 min.	cont.	200/ /60	11-7/8"x23-1/4"x34-5/8" (160 lbs)	Type II	rackmount available 240 V / 60 Hz and 200-250 V / 50 Hz available
Data Devices Cambrian	reels up to 16" dia.		90 dB		45 sec.		115/1/60	9"x17"x19-9/16" (67 lbs)	Type I	Accessories for floppy, and cassettes available; other power options
Data Security Type II	tapes up to 14" in dia. and 1" in thickness	750 Oe or 1500 Oe	90 dB for 750 Oe; 80 dB for 1500 Oe		45 sec.	115 sec.	200/ /60	11-7/8"x23-1/4"x34-5/8" (180 lbs)	Type II	200-250 V and 50 Hz available
Data Security TC-14	tapes up to 14" in dia. and 1" thick; cases and cart. up to large D-1 size	700 Oe	90 dB		15 sec.	cont.	200/ /60	11"x23-3/4"x33-1/2" (160 lbs)	Not Evaluated/ Not Certified	200-250 V and 50 Hz available

Model Name	Acceptable Media	Media Coercivity	Erase Level	Feed Opening	Cycle Time	Duty cycle	Electrical (V/Hz) (motor size)	Dimensions (HxWxD) (weight)	NSA Certified for Media Type	Special Characteristics
Datatype TD-500	any up to 16" dia. and 1" in thickness	325 Oe or 750 Oe	90 dB for 325 Oe; 80 dB for 750 Oe	mount in front	45 sec. @ 60 Hz; 55 sec. @ 50 Hz	100% for 12 cycles	115/1/60	10"x17"x19-9/16" (76 lbs)	Type I	
Datatype TD-2903-4B	any up to 16" dia. and 2" in thickness	325 Oe	90 dB for 1" tapes; 80 dB for 2" tapes	mount in front	45 sec. @ 60 Hz; 55 sec. @ 50 Hz		115/1/60	10"x17"x19-9/16" (76 lbs)	Type I	
Dowty TD-1000	Technical specifications not available									
Garner 1200		710 Oe	90 dB for 1" tapes	11"x1.6"	15 sec.		200/ /60	11"x20-1/4"x33-1/2" (140 lbs)	Not Evaluated/ Not Certified	
Garner 1400		710 Oe	90 dB for 1" tapes	14.5"x1.6"	15 sec.		200/ /60	11"x22-3/4"x33-1/2" (160 lbs)	Not Evaluated/ Not Certified	
Garner 270	up to 8-1/2" reels and cassettes		75 dB		5 sec.		120/1/60	9"x16"x26-1/2" (80 lbs)	Not Evaluated/ Not Certified	
Garner 2700		High	90 dB	5.9"x1.6"	12 sec.	cont.	200/ /60	18-1/2"x25"x42" (480 lbs)	Type I	
Garner 70	up to 7" reels		80 dB				115/1/60	5"x10"x27-1/2" (60 lbs)	Not Evaluated/ Not Certified	
Garner 105	up to 10-1/2" reels		80 dB				115/1/60	5"x16"x27 1/2" (80 lbs)	Not Evaluated/ Not Certified	
Garner 114	up to 14" reels		80 dB				115/1/60	5"x19"x27-1/2" (115 lbs)	Not Evaluated/ Not Certified	

Model Name	Acceptable Media	Media Coercivity	Erase Level	Feed Opening	Cycle Time	Duty cycle	Electrical (V/ /Hz) (motor size)	Dimensions (HxWxD) (weight)	NSA Certified for Media Type	Special Characteristics
Garner 116	up to 16" reels		80 dB				115/1/60	5"x21"x27-1/2" (127 lbs)	Not Evaluated/ Not Certified	
Garner PF-250	any up to 10-1/2" in dia. and 1" in thickness		70-80 dB			15 min. after 2 min. of cont. use	115/1/60	3-1/4"x7"x10" (11 lbs)	Not Evaluated/ Not Certified	
Garner PF-211	any up to 1/2" in thickness		70-80 dB			5 min. after 1 min. of cont. use	115/1/60	2-1/2"x3"x5" (2.25 lbs)	Not Evaluated/ Not Certified	
GK K-90	tapes, 6" and 5-1/4" diskettes, cassettes, IBM reels, cartridges	700 Oe	90 dB for 1" tapes; 70 dB for 2" tapes	16" dia.	45 sec.	cont.	115/1/60 (700 VA)	9-7/8"x17"x23-1/2" (85 lbs)	Type I	
GK K-80	single and computer tapes, 6" & 5-1/4" diskettes, cassettes, cartridges			15" dia.	1 min.	cont.	115/1/60	22"x19"x19-1/2" (115 lbs)	Type I	
Inmac 7180					15 sec.	10 min. after 1.5 min. of cont. use	115/1/60		Not Evaluated/ Not Certified	ensling pencil
HP 3603-A		No longer manufactured							Type I	
IXI 5661C	any combination of magnetic media (cass., cart., tapes, diskettes)	325 Oe	90 dB	8-1/2" x 18"x24"	instant.	cont.	120/1/60	62-1/2"x34"x25" (650 lbs)	Type I	50 Hz and conveyor models available
IXI 5622H	any combination of magnetic media (cass., cart., tapes, diskettes)	325 Oe	60 dB	8-1/2" x 18"x24"	instant.	cont.	120/1/60	62-1/2"x34"x25" (650 lbs)	Not Evaluated/ Not Certified	50 Hz and conveyor models available
LDJ QDS									Not Evaluated/ Not Certified	

Model Name	Acceptable Media	Media Coercivity	Erase Level	Feed Opening	Cycle Time	Duty cycle	Electrical (W/Hz) (motor size)	Dimensions (HxWxD) (weight)	NSA Certified for Media Type	Special Characteristics
Microtran HD-11M	tapes up to 10-1/2" in dia. and 1/2" in thickness		65-90 dB	mount on top			117/1/60	3-1/4"x3-1/2"x7" (9 lbs)	Not Evaluated/ Not Certified	
Microtran HD-20	tapes up to 10-1/2" in dia. and 1" in thickness		65-90 dB				117/1/60	4"x6"x8" (15 lbs)	Not Evaluated/ Not Certified	
Microtran HD-25	tapes up to 17" in dia. and 2" in thickness		65-90 dB				115/1/60	4"x12"x14" (33 lbs)	Not Evaluated/ Not Certified	
Shelal ME-153			60 dB						Not Evaluated/ Not Certified	
Shelal ME-49			55 dB						Not Evaluated/ Not Certified	
Shelal DS-9512			55 dB						Not Evaluated/ Not Certified	
Shelal ME-136			60 dB						Not Evaluated/ Not Certified	
Shelal ME-32			55 dB						Not Evaluated/ Not Certified	
Shelal ME-160			55 dB						Not Evaluated/ Not Certified	
Shelal ME-162			55 dB						Not Evaluated/ Not Certified	

Model Name	Acceptable Media	Media Coercivity Level	Erase Level	Feed Opening	Cycle Time	Duty cycle	Electrical (W /Hz) (motor size)	Dimensions (HxWxD) (weight)	NSA Certified for Media Type	Special Characteristics
Shohal EM-1508									Not Evaluated/ Not Certified	
Shohal EM-1509									Not Evaluated/ Not Certified	
Shohal EM-1506									Not Evaluated/ Not Certified	
Shohal EM-1614			55 dB						Not Evaluated/ Not Certified	
Shohal EM-1611			55 dB						Not Evaluated/ Not Certified	
Shohal ME-330			60 dB						Not Evaluated/ Not Certified	
Shohal ME-320			60 dB						Not Evaluated/ Not Certified	
Shohal DM-9508			55 dB						Not Evaluated/ Not Certified	
Shohal DM-9506			50 dB						Not Evaluated/ Not Certified	
Shohal EM-1501									Not Evaluated/ Not Certified	

Model Name	Acceptable Media	Media Coercivity Level	Feed Opening	Cycle Time	Duty cycle	Electrical (V/ /Hz) (master size)	Dimensions (HxWxD) (weight)	NSA Certified for Media Type	Special Characteristics
Shokai EM-1504		50 dB						Not Evaluated/ Not Certified	
Shokai EM-1702		50 dB						Not Evaluated/ Not Certified	
Shokai EM-1707		50 dB						Not Evaluated/ Not Certified	
WFE 9210	any size up to 16" in dia. and 2" in thickness	60-80 dB	mount on top			115/1/60	4-1/8"x12"x14" (28 lbs)	Not Evaluated/ Not Certified	
WFE 9210-A	any size up to 16" in dia. and 2" in thickness		slide over top					Not Evaluated/ Not Certified	
WFE 9205-A	any size up to 17" in dia. and 2" in thickness	60-90 dB	mount on top			115/1/60	4-1/8"x12"x14" (52 lbs)	Not Evaluated/ Not Certified	
WFE 642-21	any size up to 10-1/2" in dia. and 2" in thickness	60-90 dB	rotate on top by hand			115/1/60	4-1/8"x6"x8" (15 lbs)	Not Evaluated/ Not Certified	
WFE 8905	active area: 0.25" dia.					115/1/60	5/8" dia. x 6" long (6 oz)	Not Evaluated/ Not Certified	erasing pencil

Section G

Incendiary Destruction Devices

This section includes incendiary destruction devices that are presently stocked by the United States Government. These devices are listed in the Department of the Army Supply Bulletin SB 725-7300-T, 9 February 1976.

Part Number	Item Description	Volume cubic feet	Weight pounds	Application
TH4, M1A2	Cryptographic Equipment Destroyer, Incandiant	1.1	55	Thermite incendiary designed for the ACED of Telecommunications Security (TSEC) Cryptographic Equipments
TH3, AN-M14	Grenade, Hand; Incandiant	0.8 (16 unit pack)	47	Thermite incendiary used for the emergency ignition of the M1A2 and for the ACED of mission essential equipment
M4	Document Destroyer, Emergency, Incandiant	11.7	275	A 55 gallon drum lined with sodium nitrate for the destruction of cryptographic or classified documents
ABC-M4	File Destroyer, Incandiant	4.1	160	Cellulose nitrate - sodium nitrate kit for interfacing with the contents of the drawers of a file cabinet

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