

HSM SP4040c Cross-Cut Shredder/Baler Combination

Instruction Manual



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***HSM shredder baler systems
for industrial and professional
data shredding***



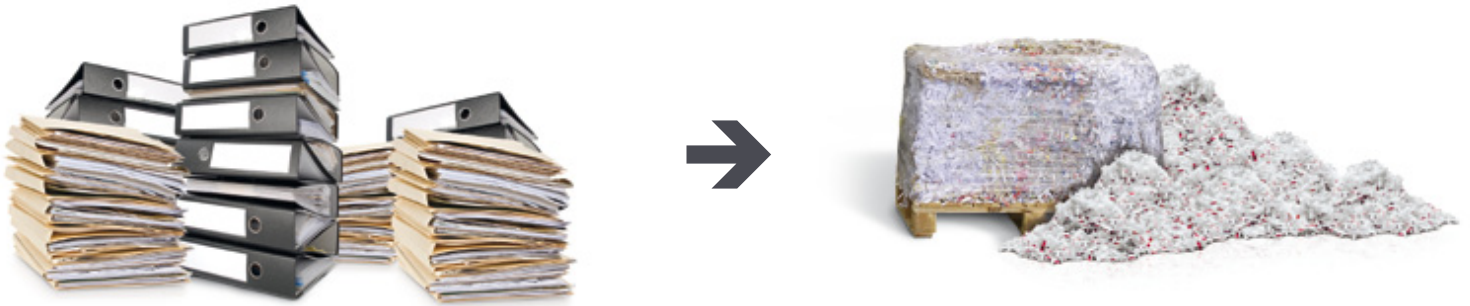
Misuse of data causes millions in damages!

Dealing with files and documents is something you do on a daily basis and everyone is very conscious of the need to act responsibly. However, data leaks increasingly occur which could be detrimental to the reputation of government offices, institutions and companies or lead to financial loss.

These risks can be avoided with professional document

shredders which are exactly tailored to your requirements and shred your files reliably. This is ensured by HSM quality with its sophisticated cutting unit technology and tried-and-tested around the world.

HSM stands for experience, expertise and quality, in other words, for all the best arguments to make you feel secure!



HSM – the professionals for high security!

HSM offers the largest range of document shredders for all areas of application. In the large shredder sector, countless government offices, personnel departments and banks have been equipped with HSM machines during the company history of forty years. All HSM customers base their trust in HSM security on the following:

- outstanding product quality
- user-oriented technology and innovation
- the link between expertise in document shredding and in volume reduction of materials through the baling press company division
- first-class HSM service

All HSM products bear the “Made in Germany” seal of quality.



HSM quality has the “Made in Germany” quality seal.

HSM has always adhered to quality principles, whether in development and construction, production, project planning or service. All HSM plants are certified according to DIN EN ISO 9001 and work towards producing sustainable products. Motivated and well-qualified staff work to ensure the HSM quality standard every day so that the value of an HSM document shredder or a shredder press combination can be maintained long-term for all customers.

The key points of first-class service

1) Consulting and training

- Individual advice on products by our staff – on the phone, by e-mail or on-site in your company.
- HSM as your partner for individual project planning – for systems which are directly tailored to your requirements.
- Advice on data protection in companies and government offices.
- Advice on various financing models.
- Service support and advice on spare part requirements.

2) After-sales service / consumable materials

- Worldwide support for the punctual delivery of spare parts and service order processing.
- Specially agreed HSM service contracts including regular maintenance and inspections.
- HSM provides you with everything you need for continuous use: reusable plastic bags, special cutting unit oil, polyester tape, cardboard box.

3) Financing

Your local HSM sales contact will be pleased to provide detailed information on any financing models.



Of all the benefits we have to offer, one decisive point stands out – HSM service

We deliver quality and also take responsibility for this after the sale. We take service seriously, and are committed to helping our customers in the best way possible. This not only applies to our headquarters but also in all HSM service centres in Germany and all over the world.

High security with small strips and particles

Security levels in accordance with DIN 32757-1

The document shredders from the HSM shredder press combinations and the Duo and TriShredder series make your confidential documents and personal data illegible – at different security levels. A DIN standard defines five security levels which ensures a high level of security from level to level.

- Security level 2 (strips):** For internal/in-house documents that are to be rendered illegible, such as computer print-outs or unusable photocopies.
- Security level 3 (particle):** For confidential documents, such as personal-related data and documents.
- Security level 4 (particle):** When the confidentiality of documents is essential for a company's existence.

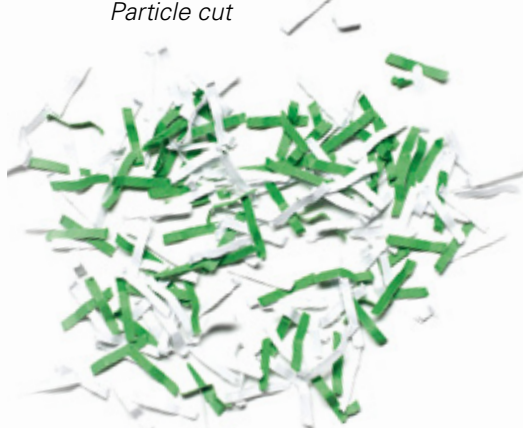
Security level 2
Strip cut



Security level 3
Particle cut



Security level 4
Particle cut



Selecting a machine that is right for you

When selecting the shredder press combination or the Duo or TriShredder, the following criteria must be considered:

- What **are the security requirements?**
(security levels)
- How much **material** will be shredded **per hour?**
(throughput capacity in kg/h)

You can select a suitable HSM machine in the product finder below. It is always essential to pay attention to quality when purchasing a machine. For instance, the cutting rollers made of solid steel, a well-designed drive and the high level of user safety – all product features you can find in every HSM machine.

Product finder:

	Security level 2	Security level 3	Security level 4
Throughput capacity in kg/h	200–250		HSM SP 5080 HSM SP 5088
	300–399	HSM SP 4040 V	HSM Duo Shredder 5540.2 HSM SP 4040 V
	400–499		HSM SP 5088
	500–599	HSM SP 5088	HSM SP 5080
	600–699	HSM SP 5080 HSM SP 5088	
	700–799	HSM SP 5080	HSM Duo Shredder 5750
	2000–3000		HSM Tri Shredder 6060

HSM shredder baler combinations. The result: compact security.



Cutting size in mm	5.8 / 5.8 x 50
Cutting capacity in sheets*	130 / 120
Security level	2 / 3
Throughput capacity in kg/h*	320-420 / 320-420
Working width in mm	428
Motor power kW	4 (document shredders)
Motor power kW	2.2 (baling press)
Pressing power in kN	44
Bale weight in kg	35
Bale (W x H x L) in mm	600 x 500 x 400

* DIN A4 70 g/m²

HSM SP 4040

- Combination device (FA 400.2 and KP 40V) especially compact and space-saving vertical design.
- Material intake via loading table and electric conveyor belt.
- Document shredder with keypad for continuous and reverse operation, as well as automatic reverse in the event of a paper jam.
- Shredding and pressing conducted simultaneously.
- Integrated, manual oiler for the cutting unit (particle cut version only).
- Press with modern control unit and removal trolley for box or waste bag (standard equipment: 5 boxes, 5 plastic bags, bag holder).
- Display to indicate "bale ready".



SP 4040: View from the rear with the door open.

HSM combined shredder baler machines

SP 5080 and SP 5088



Cutting size in mm	10.5x40-76 / 7.5x40-80 / 6x40-53 / 1.9x15
Cutting capacity in sheets*	600-650 / 500-550 / 400-450 / 120-130
Security level	2 / 2 / 3 / 4
Throughput capacity in kg/h*	700 / 600 / 500 / 250
Working width in mm	500
Motor power kW	7.5 / 5.5 plus 4 (document shredder)
Motor power kW	4 (baling press)
Pressing power in kN	80
Bale weight in kg	60-80
Bale (W x H x L) in mm	570 x 490 x 800

* DIN A4 70 g/m²

HSM SP 5080



Rear view SP 5080

- Extremely high-performance conveyor belt document shredder combined with convenient, space-saving baling press (FA 500.3 and KP 80).
- Material intake via large loading table and electric conveyor belt.
- Multi-functional operating and display element for continuous and reverse operation, as well as automatic reversing for paper jams.
- Modern PLC press control unit with multi-language display and convenient menu navigation. Automatic photoelectric control of the pressing process.
- Shredding and pressing conducted simultaneously.
- Integrated, automatic oiler for the cutting unit.
- Material compressed directly in the waste bag (standard equipment: 5 plastic bags).
- Display to indicate operating status and “bale ready”.
- Integrated emergency-stop rail on the table for more safety.



Cutting size in mm	10.5x40-76 / 7.5x40-80 / 6x40-53 / 1.9x15
Cutting capacity in sheets*	600-650 / 500-550 / 400-450 / 120-130
Security level	2 / 2 / 3 / 4
Throughput capacity in kg/h*	700 / 600 / 480 / 200
Working width in mm	500
Motor power kW	7.5 / 5.5 plus 4 (document shredder)
Motor power kW	4 (baling press)
Pressing power in kN	85
Bale weight in kg	90
Bale (W x H x L) in mm	500 x 500 max. 950

* DIN A4 70 g/m²

HSM SP 5088

- Extremely high-performance conveyor belt document shredder combined with baling press (FA 500.3 and KP 88).
- Material intake via large loading table and electric conveyor belt.
- Keypad for continuous and reverse operation, as well as automatic reverse in the event of a paper jam.
- PLC press control unit with multi-language display and convenient menu navigation.
- Automatic photoelectric control of the pressing process.
- Shredding and pressing conducted simultaneously.
- Automatic oiler for the cutting unit.
- Press with filling hatch/inspection hatch for adding non-sensitive material or boxes separately.
- Manual, 3-fold strapping with continuous polyester strapping. Standard equipment with polythene bag attachment (standard equipment: 5 plastic bags).
- Display to indicate "bale ready".



Operating element FA 500.3

HSM multiple stage shredder systems – security for large amounts of files



Cutting size in mm	5.8 x 50
Security level	3
Throughput capacity in kg/h*	up to 350
Working width in mm	400
Motor power kW	Stage 1 = 4 / Stage 2 = 5.5

* DIN A4 70 g/m²

HSM DuoShredder 5540.2



Cutting unit stage 2:
downstream shredder

The HSM DuoShredder 5540.2 is a two-stage shredder system for fully automatic document disposal. Depending on the paper quality, loading and downstream systems, it can achieve a throughput of up to 350 kg per hour. In combination with an HSM baling press, you can expand the HSM DuoShredder 5540.2 into a complete disposal system. We recommend the following baling press models: HSM KP 100.1 and HSM KP 88.1.

- Sturdy loading hopper with built-in overloading protection to control the shredder and the conveyor belt.
- Stage 1: pre-shredding using a two-shaft system for improved material intake.
- Light barrier monitors filling level between stages 1 and 2 to prevent overloading.
- Stage 2: fine shredding using a two-shaft system.
- Optionally available with material collection trolley for solo operation, volume approx. 320 litres.
- Optionally available with electrohydraulic pre-compactor to remove jams in the hopper; the material to be shredded is automatically pushed against the cutting rollers.



Cutting size in mm	60 x 40-53
Security level	3
Throughput capacity in kg/h*	up to 800
Working width in mm	500
Motor power kW	Stage 1 = 2 x 5.5 / Stage 2 = 9.2

* DIN A4 70 g/m²

HSM DuoShredder 5750

Two-stage, fully automatic document disposal system. Depending on the type of material, it can achieve an efficient throughput of up to 800 kg per hour. In combination with an HSM baling press, you can expand the HSM DuoShredder 5750 into a complete disposal system. We recommend the following baling press models: HSM KP 100.1, HSM KP 88.1 and other fully automatic presses.

- Sturdy loading hopper with built-in overloading protection to control the shredder and the conveyor belt.
- Stage 1: pre-shredding using a four-shaft system consisting of two intake shafts and two cutting shafts.
- Light barrier monitors filling level between stages 1 and 2 to prevent overloading.
- Stage 2: fine shredding using a two-shaft system.
- Light barrier monitors filling level after stage 2 to prevent overloading.
- Robust frame construction with service and maintenance doors.
- Optionally available with material collection trolley for solo operation, volume approx. 320 litres.



Cutting unit stage 1: Pre-shredder

Cutting size in mm	7.5x40–80
Security level	3
Throughput capacity in kg/h*	up to 2500
Working width in mm	650
Motor power kW	3 stages, each 9.2

* DIN A4 70 g/m²



HSM TriShredder 6060

HSM TriShredder 6060

3-stage shredding unit with three cutting units and a throughput of up to 2500 kg/h at security level 3. In combination with a baling press, you can expand the HSM TriShredder 6060 into a complete disposal system.

- Robust loading hopper for passing material from the conveyor belt to the HSM V 600 pre-shredder.
- Light barriers for system control.
- Stage 1: pre-shredding using a four-shaft system consisting of two intake shafts and two cutting rollers.
- Stages 2 and 3: fine shredding using a two-shaft system.

- Powerful motor with a total output of 6 x 9.2 kW.
- Modern PLC control unit for integrated control of all system components.
- Optionally available with extension mechanism for 2nd and 3rd shredder stage for setting the required particle size.

Technical data

Model	HSM SP 4040	HSM SP 5080	HSM SP 5088
Cutting type	Strips/particles	Particle cut	Particle cut
Cutting size in mm	5.8 / 5.8 x 50	10.5x40-76 / 7.5x40-80 / 6x40-53 / 1.9x1.5	10.5x40-76 / 7.5x40-80 / 6x40-53 / 1.9x15
Security level DIN 32757-1	2 / 3	2 / 2 / 3 / 4	2 / 2 / 3 / 4
Cutting performance* 70 g/m ² in sheets	130 / 120	600-650 / 500-550 / 400-450 / 120-130	600-650 / 500-550 / 400-450 / 120-130
Cutting performance* 80 g/m ² in sheets	104 / 96	510-550 / 425-470 / 340-380 / 90-100	510-550 / 425-470 / 340-380 / 90-100
Throughput capacity in kg/h, DIN A4 70 g/m ²	320 / 320	700 / 600 / 500 / 250	700 / 600 / 480 / 200
Cutting speed in mm/s	210 / 230	210	210
Working width in mm	428	500	500
Motor in kW (document shredder)	4,0	5,5	5,5
Motor in kW (baling press)	2,2	4,0	4,0
Voltage / frequency	3 x 400 V / 50 Hz	3 x 400 V / 50 Hz	3 x 400 V / 50 Hz
Pressing power in kN	44	80	85
Max. bale size in mm (W x H x L)	600 x 500 x 400	570 x 490 x 800	500 x 500 x max. 950
Bale weight in kg (depending on material)	25-35	60-80	70-95
Hourly output in bales/boxes (depending on material)	6-8	8-10 / 7-9 / 6-8	8-9 / 7-8 / 6-7
Machine dimensions in mm (W x D x H)	1100x 2030 x 1970	1170 x 2400 x 1795	1245 x 3225 x 1795
Machine weight in kg	737	1480	1790

* max. per cycle with DIN A4, 70 g/m² or DIN A4, 80 g/m².

All technical data and dimensions are approximate values only. Technical and design changes reserved.

Model	HSM DuoShredder 5540.2	HSM DuoShredder 5750	HSM TriShredder 6060
Motor in kW	1. Stage = 4 / Stage 2 = 5.5	1. Stage = 2 x 5.5 / Stage 2 = 9.2	3 stages, each 9.2
Voltage / frequency	3 x 400 V / 50 Hz	3 x 400 V / 50 Hz	3 x 400 V / 50 Hz
Working width in mm	400	500	650
Particle size after stage 1 (mm)	20 x 155	20 x 155	25 x 160-200
Particle size after stage 2 (mm)	5.8 x 50	6 x 40-53	10.5 x 40-76
Particle size after stage 3 (mm)	-	-	7.5 x 40-80
Security level DIN 32757-1	3	3	3
Throughput in kg/h (depending on material)	up to 350	up to 800	Up to 2500
Dimensions of machine, W x D x H (mm)*	1421 x 832 x 2500	1900 x 1200 x 3300	1940 x 1430 x 3900
Machine weight in kg*	1150	2500	4000

* Dimensions depend on version supplied for project

All technical data and dimensions are approximate values only. Technical and design changes reserved.

Explanations of the technical data:

Cutting type	The material is shredded into either strips or particles.
Cut size	Dimension of the strips or particles of the shredded material (depending on the paper quality).
Security levels	In accordance with DIN 32757-1
Cutting power*	The max. number of sheets (DIN A 4, 70 g/m ² or 80 g/m ²), fed lengthways, with the motor cold and cutting unit oiled, which can be cut on one cycle.
Throughput	Max. volume that can be shredded in one hour.
Cutting speed	This is calculated on the basis of the external diameter and speed of the cutting rollers in idle operation.
Working width	Maximum effective width of the feed opening.
Motor	Power consumption of the document shredder motor at maximum cutting capacity* (see above) Power consumption of the press motor in normal operation.
Voltage / frequency	Three-phase/alternating current power supply.
Pressing power	Piston cylinder surface multiplied by the maximum hydraulic pressure (theoretical value).
Bale size	The length/height of the bales varies according to the expansion force of the compressed material.
Bale weight	The bale weight varies depending on the type, moisture and condition of the compressed material and the bale length or height.
Hourly throughput	The hourly output depends on the type and quantity of the material to be pressed and on the number of persons loading the machine.
Dimensions of the machine	External dimensions of the machine when set up for operation.
Machine weight	Net weight of the machine without packaging and loaded material and with no optional equipment.

All technical data and dimensions are approximate values. Technical and design modifications reserved.

HSM – the company

Cutting, shredding, compressing



Since 1971, HSM has been pursuing a clear strategy – a consistent commitment to quality “made in Germany”. This product and service quality is the key to success in both the office technology and environmental technology business sectors. As a specialist for products and services for data protection as well as technologies for optimising logistics and recycling processes, HSM is one of the world’s leading providers.

Enquire now! We are always glad to help.

Head office in Germany:

HSM GmbH + Co. KG · Austrasse 1 - 9 · 88699 Frickingen / Germany
Tel. +49 (0) 75 54 / 2100-0 · Fax +49 (0) 75 54 / 2100-160
info@hsm.eu · www.hsm.eu

E-mail / hotline:

Gratis Hotline
DE, AT, BE, NL, LU, DK
Tel. 00800 44 77 77 66
Fax 00800 44 77 77 67

HSM Vertrieb Deutschland
Deutschland@hsm.eu

HSM Vertrieb Österreich
Austria@hsm.eu

HSM Verkoop België, Nederland,
Luxemburg
Benelux@hsm.eu

HSM Salgs Support Danmark
Danmark@hsm.eu

HSM Commerciale Italia
Italia@hsm.eu

HSM subsidiaries and sales offices:

HSM GmbH + Co. KG
Oficina Barcelona
C/Tona
Nave n° 15 “El Lago”
Pol. Ind. Monguit
08480 L’Ametlla del Vallès
Barcelona
Spain
Tel. +34 (0) 93 86 17 187
Fax +34 (0) 93 84 63 417
Spain@hsm.eu
www.hsm.eu

HSM France SAS
Parc de Genève
240, Rue Ferdinand Perrier
69800 Saint-Priest
France
Tél. +33 (0) 4 72 21 05 80
Fax +33 (0) 4 72 51 74 81
France@hsm.eu
www.hsm.eu

HSM of America LLC
419 Boot Road
Downingtown
PA 19335
USA
Tel. +1 (484) 237-2308
+1 (800) 613-2110
Fax +1 (484) 237-2309
customerservice@hsmofamerica.com
info@hsmofamerica.com
www.hsmofamerica.com

HSM (UK) Ltd.
14 Attwood Road / Zone 1
Burntwood Business Park
Burntwood · Staffordshire
WS7 3GJ
United Kingdom
Tel. +44 (0) 1543 272 480
Fax +44 (0) 1543 272 080
info@hsmuk.co.uk
www.hsmuk.co.uk

HSM Polska SP. z o.o.
ul. Emaliowa 28
02-295 Warszawa
Poland
Tel. +48 (0) 22 / 862 23 69
Fax +48 (0) 22 / 862 23 68
info@hsm Polska.com
www.hsm.eu

HSM®