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## HSM 450.2

**BETRIEBSANLEITUNG**  
AKTENVERNICHTER

**OPERATING INSTRUCTIONS**  
PAPER SHREDDER

**NOTICE D'UTILISATION**  
DESTRUCTEUR DE DOCUMENTS

**MANUALE D'USO**  
DISTRUGGIDOCUMENTI

**INSTRUCCIONES DE SERVICIO**  
DESTRUCTORA DE DOCUMENTOS

**GEBRUIKSAANWIJZING**  
PAPIERVERNIETIGER



1.503.999.102 – 0602

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# HSM®

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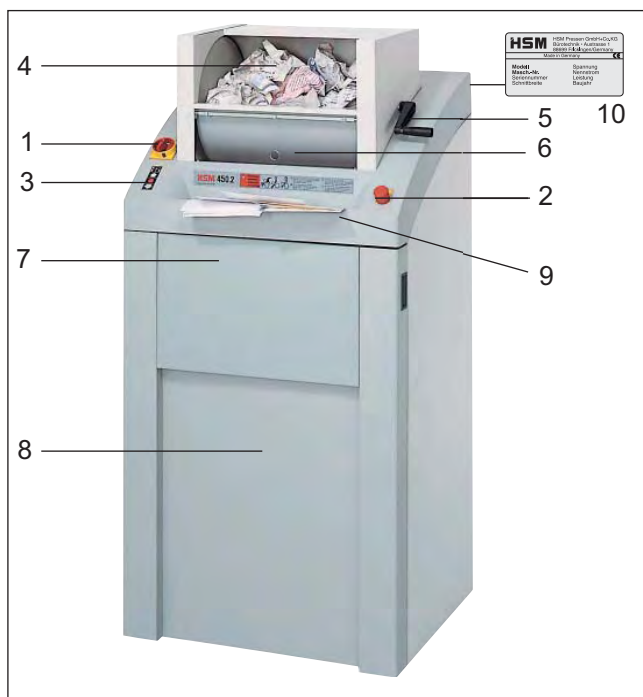
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## 1. Proper use, warranty

The paper shredder is intended only for shredding normal paperwork (e.g. archive files, EDP lists, contents of waste paper bins) and a small quantity of credit cards, CDs, floppy disks. The sturdy cutting mechanism is unaffected by staples and paper clips.

We provide a warranty for the device in accordance with our general sales and delivery terms. This warranty excludes wear, damage due to improper handling, natural depreciation, and actions taken by third parties.

## 2. Machine components



- 1 Main switch
- 2 Emergency-stop pushbutton
- 3 Membrane keyboard
- 4 Filling drum
- 5 Drum handle
- 6 Funnel flap
- 7 Folding tray
- 8 Front door
- 9 Paper feed slot
- 10 Name plate

## 3. Safety instructions

- Read all instructions before start-up of the paper shredder. Save these instructions for later use.
- Follow all warnings and instructions marked on the product!
- Make sure no liquid is spilled on or in the paper shredder.
- Do not attempt to repair this paper shredder yourself.
- If the shredder is damaged or does not function properly, switch the device off, pull out the mains plug and inform our service engineers.
- Keep paper shredder out of the reach of children.
- This shredder should be operated only with an operator in attendance.



### ***Risk of injury!***

Do not reach into the paper feed slot.



### ***Risk of injury from slivers!***

Wear protective goggles when destroying diskettes, CDs and hard credit cards.



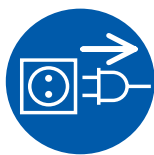
### ***Risk of injury by pulling in!***

Keep long hair, loose articles of clothing, ties, scarves, jewellery etc. away from feed opening. Material with the tendency to form loops, e.g. tapes, strapping material, etc. must not be shredded.

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Before taking off the cover, changing the location, cleaning or anything else other than normal operation **turn off and unplug the paper shredder!**



Maintenance and service work may be performed only by:

- HSM customer service
- specially trained staff (e.g. qualified electricians)
- service technicians from our contracting partners

## 4. Installation

- This paper shredder should never be placed near or over a radiator or heat source.
- The ventilation slots must not be blocked or covered and they must be at a distance of at least 10 cm away from walls or furniture.
- Make sure the mains plug is easily accessible.
- Before plugging in the mains plug, check that the voltage and frequency of your local mains supply correspond to those stated on the type plate.

### Inserting a new bag for cut material

- Open the front door and pull out the cutmaterial container completely.
- Insert an new cut material bag into the container and fold the upper border approx. 10 cm over the upper frame tubes.
- Push in cut material container completely and close the door.

## 5. Operating elements

### Membrane keyboard



**Ready for operation**  
green LED



**Cut material bag full**  
red LED



**Paper jam – electric motor overloaded**  
red LED



**Front door or funnel flap opened**  
red LED



**ON pushbutton**  
shredder is switched on – cutting system runs in feed direction

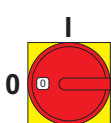


**Stop pushbutton**  
cutting system stops – shredder remains in standby function



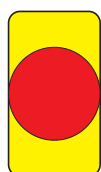
**Reversing pushbutton**  
cutting system runs in reverse direction

### Main switch



Turning the main switch 90° in clockwise direction switches the machine on.  
The main switch can be secured in the OFF position with a padlock.

### Emergency-stop pushbutton



In emergencies immediately press **the red emergency-stop pushbutton!**  
This switches the paper shredder off.  
The cutting system stops.  
Emergency-stop is released by pulling out the pushbutton.

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## 6. Start-up

### Switching paper shredder on



- Pull out emergency-stop.



- Turn main switch to position I.



- Paper shredder is ready for operation when green LED on control panel lights.



#### Notice

*Safety switches are installed at the doors. Paper shredder is only to switch on if there are all doors closed.*



- Press the green arrow button.

**Press briefly:** cutting device starts

Automatic stop approx. 3 seconds after the last piece of paper was drawn in, or manual stop when the stop button is pressed.

**Hold down for longer than 2 seconds:**

constant operation without light barrier function



The cutting device runs until it is switched off with the stop button.

### Insert paper into the paper feed apertures

#### Paper feed slot:

smooth paper + stacks of continuous lists



The tray can be folded out to hold stacks of paper or continuous lists. The shredder blades are controlled by the light barrier in the paper feed slot.

### Filling drum: crumpled paper



Pull the drum handle forward and put the crumpled paper in the drum.

When you push back the handle the paper falls into the shredder blades.

### Switching paper shredder to standby mode



- Press stop pushbutton. Cutting system stops. Paper shredder continues to be ready for operation (standby function).

### Switching paper shredder off



- Turn main switch to position 0 (secure main switch with a padlock, if necessary).

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## 7. Scope of delivery

- Single machine, ready for connection, foil packaging
- Machine on pallet with wooden crate
- 5 cut material bags
- Special cutting block oil (250 ml)
- Operating instructions

### Accessories

- Cut material bag, Part-No. 1.452.995.000
- Special cutting block oil (250 ml), Part-No. 1.235.997.401

## 8. Troubleshooting

### Paper jam



#### **You have fed in too much paper.**

- Paper shredder jammed.
- Red LED in the key pad flashes.
- Paper shredder reverses automatically.



#### **CAUTION!**

*Injuries by cutting rollers are possible even when the paper shredder is idle.*

*Keep hands away from the cutting system!*

- Open the funnel flap and clear the paper jam.

#### **If material is not completely pushed out, then**



- Close the funnel flap again.
  - Press dashed arrow button.
  - Remove the paper from the funnel flap.
  - Press the green arrow button.
- Separate paper stack and feed paper again.



#### **CAUTION !**

Do **not** press dashed arrow button and green arrow button alternately forwards and backwards. Cutting system can be damaged.

### Electric motor overheated



- Red LED on membrane keyboard lights.
- Paper shredder switches off automatically.
- Allow paper shredder to cool down for approx. 15 to 20 min.

### Front door or funnel flap opened



- Red LED on membrane keyboard lights.
- Paper shredder stops automatically.
- Close front door and flap. If the door is opened when the cutting device is running, the document shredder must be started again using the green button after the door of the document shredder has been closed.

### Bag for shredded material full



- Red LED on membrane keyboard lights.
- Paper shredder stops automatically. Reversing the cutting device ("Reverse" button) is also possible even when the shredded material container is full.
- Insert new bag.



#### **CAUTION!**

Empty the shredded material container after the paper shredder has been switched off, because otherwise malfunctions of the cutting system could occur when the rocker switch is pressed several times in succession

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## 9. Maintenance and care

### Cleaning:

- Switch off the shredder, pull out the mains plug.
- When cleaning only use a soft cloth and a mild soap-water solution. Never use scouring agents, cleaning fluid, petroleum or thinners.


### When the cutting capacity drops or the noise increases:

- Lift the flap on the top of the device and spray special cutting block oil on the blade rollers of the cutting device.



- Run cutting system forwards and backwards several times without feeding paper. Paper dust and particles are shaken off.

## 10. Technical Data

<b>Cutting type</b>	 Cross cut
<b>Shred size</b> (mm)	3.9 x 50
<b>Safety rating</b> DIN 32757 – 1	3
<b>Cutting capacity</b> (sheets), DIN A4	70 g/m <sup>2</sup> 80 - 85 80 g/m <sup>2</sup> 65 - 70
<b>Cutting speed</b>	218 mm/s
<b>Loading width</b>	443 mm
<b>Voltage</b>	3 x 400 V, 50 Hz 3 x 208 V, 60 Hz
<b>Power</b> for the maximum number of sheets	3 kW
<b>Dimensions</b> W x D x H (mm)	750 x 665 x 1590
<b>Weight</b>	220 kg
<b>Volume of shredded material bag</b>	290 l
<b>Noise level</b> (Idle running/ load)	58 dB(A) / 70-75 dB(A)

Technical and optical modifications reserved.

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## Declaration of Conformity

Machinery directive 98 / 37 / EG  
EMC directive 89 / 336 / EWG  
Low voltage directive 73 / 23 / EWG

The manufacturer **HSM Pressen GmbH + Co. KG**, Bahnhofstraße 115, D-88682 Salem declares herewith, that the paper shredders **HSM 450.2** aboved mentioned correspond with the EC Machine Directive including all relevant modifications.

Applied standards and technical specifications:

- EN 55014-1:2000 + A1:2001 + A2:2002
- EN 55014-2:1997 + A1:2001
- EN 61000-3-3:1995 + A1:2001
- EN 294:1992
- EN 61000-3-2:2000
- EN 60950-1:2001

Salem, 04.10.2005



Rolf Gasteier - Technical Director

Machine type inspection for compliance with the requirements of the EC Machine Directive was carried out by the „Administration“/Inspection Authority Committee of Experts, Subject Area „Office Machines and Devices“, on the premises of the Verwaltungs-Berufsgenossenschaft, Deelbögenkamp 4, D-22297 Hamburg. This inspection authority is the authority responsible in accordance with Annex V of the EC Machine Directive.

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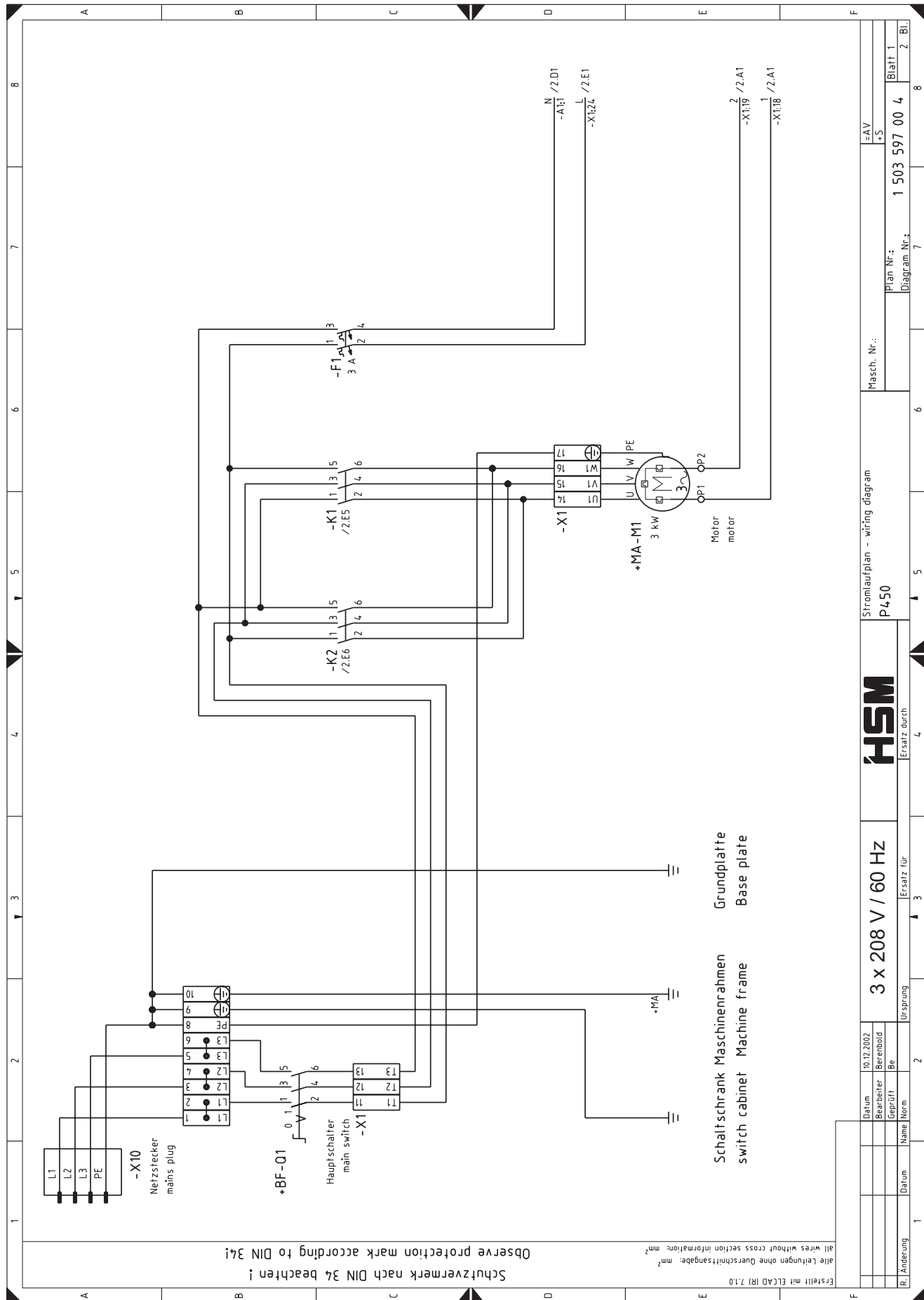
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Bearbeiter		Berenbold		Plan Nr.:		Blatt 1	
Geprüft		Be		Diagramm Nr.:		1 503 597 00 4 Blatt 2	
Name		Norm		Ersatz durch		2. BL.	
Datum		Ursprung		Ersatz durch			



